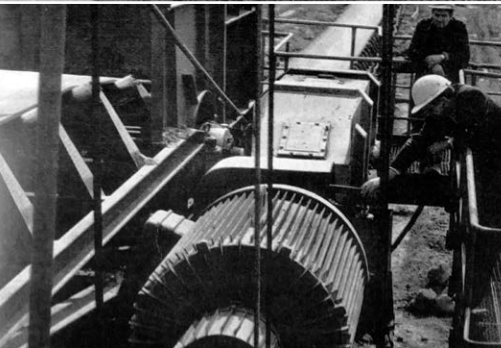
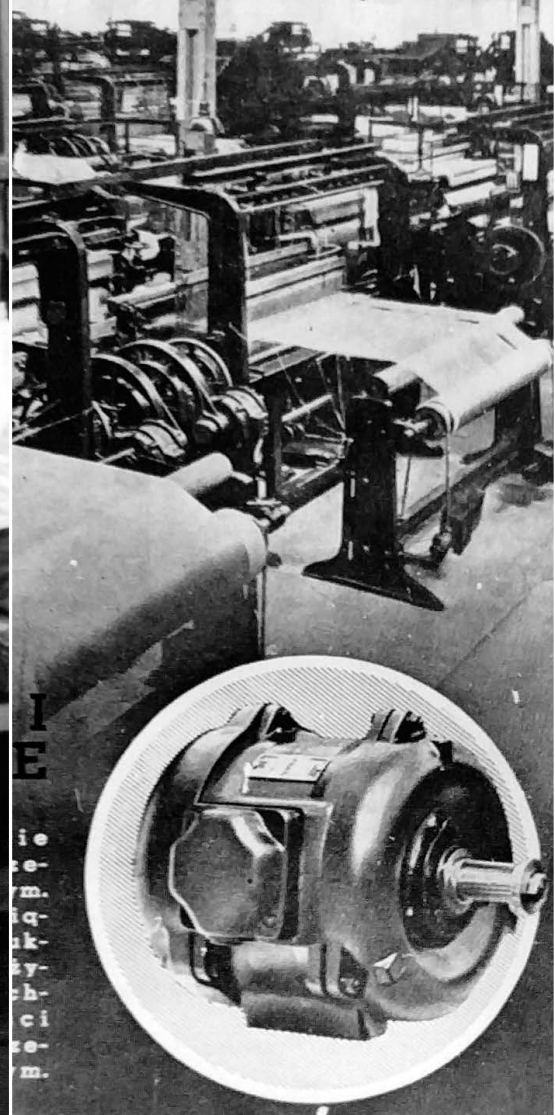
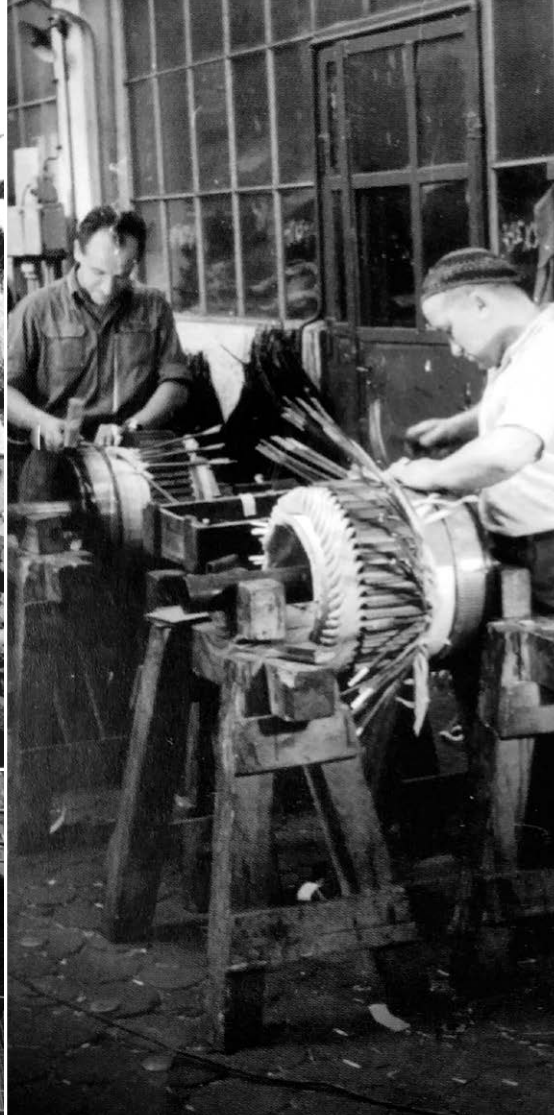
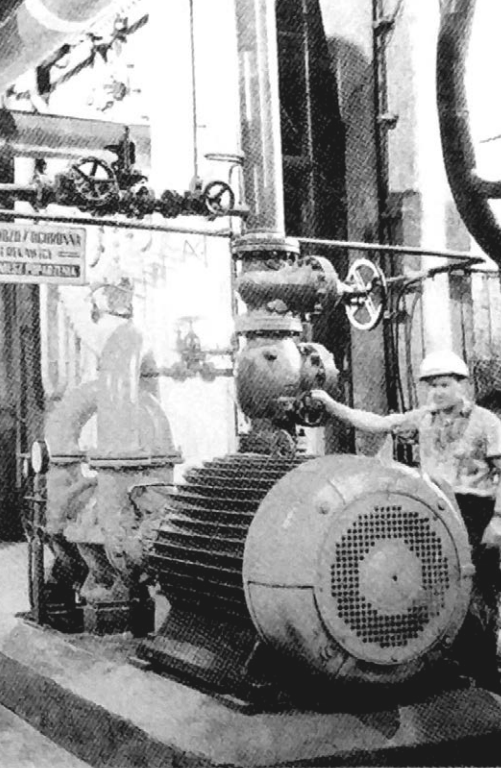


**BUILT TO PERFORM WHERE OTHERS FAIL**

**Elektrim**<sup>®</sup>  
**Motors**

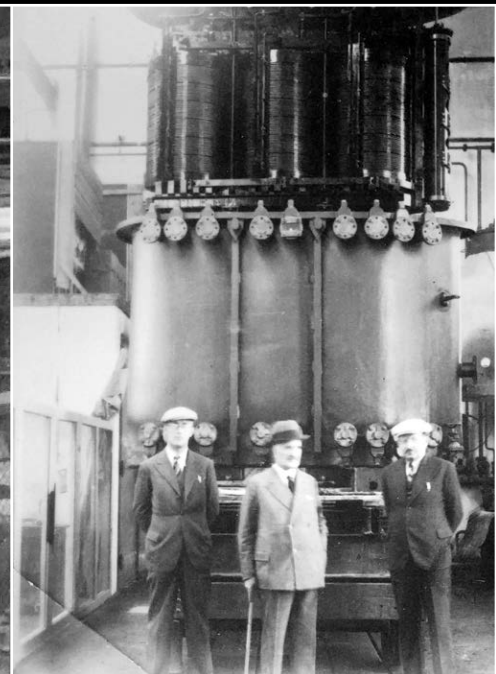
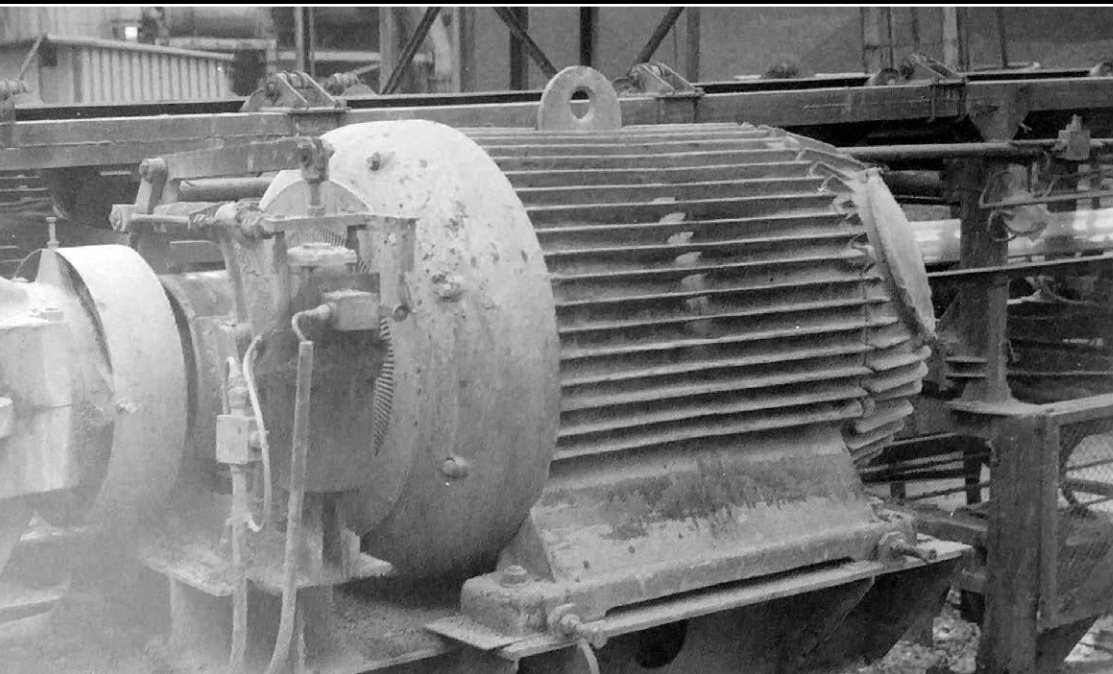
**PRODUCT CATALOG**



IE  
ie  
e-  
ym.  
iq-  
ak-  
ty-  
ch-  
ci-  
e-  
m.

# Elektrim<sup>®</sup> Motors

The first Elektrim<sup>®</sup> motor was manufactured in Poland over 90 years ago, and continues today as a full line of European engineered AC NEMA and Metric IEC electric motors. Our enthusiasm for electric motors and commitment to exacting standards mean that Elektrim motors are some of the finest, longest lasting and best performing in the industry.



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General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data



Standard Product Line Features	Performance 20N Series	A-Line 31N Series	Severe Duty	Crusher Duty	IEC Motors	Brake Motor
<b>Power</b>	1-400 HP	1-250 HP	1-250 HP	250-600 HP	0.08-220 HP 0.06-160 kW	1-30 HP
<b>Frame</b>	143-447T	143-449T	143-447T	449T-588UZ	56-315M	143-286T
<b>Voltage</b>	208-230/460V, 460V	208-230/460V, 460V	208-230/460V, 460V	460V	230/460V	208-230/460V
<b>Dual Rated</b>	190/380V 50Hz	190/380V, 380V 50Hz	190/380V, 380V 50Hz	380V 50Hz at lower HP output	380/400V 50Hz	190/380V 50Hz
<b>575V</b>	Available	–	Available	–	Available	Available
<b>Phase</b>	3	3	3	3	3	3
<b>Speed</b>	3600-1800-1200	3600-1800-1200-900	3600-1800-1200	1800-1200	3600-1800-1200	3600-1800-1200
<b>Design</b>	B or A	B	B or A	C	N or H	B or A
<b>Efficiency</b>	NEMA Premium	NEMA Premium	NEMA Premium	–	IE1-IE2-IE3	NEMA Premium
<b>Service Factor</b>	up to 1.4	up to 1.25	up to 1.4	up to 1.20	up to 1.20	up to 1.4
<b>Inverter Rated</b>	10:1CT & 20:1VT	10:1CT & 20:1VT	10:1CT & 20:1VT	5:1CT & 10:1VT	5:1CT & 10:1VT	10:1CT & 20:1VT
<b>IP Code</b>	IP55	IP55	IP55	IP55	IP55	IP55
<b>Bearing</b>	Oversized Ball (DE & ODE)	Oversized Ball (DE)	Oversized Ball (DE & ODE)	Roller Bearing (DE)	Oversized Ball (DE & ODE)	Oversized Double Shielded Ball (DE & ODE)
<b>Thermal Protection</b>	PTC140 (≥ 320)	–	PTC140 (≥ 320)	–	PTC140 (≥ 200)	–
<b>Electrical Impregnation</b>	VPI	Double Dip & Bake	VPI	VPI	VPI	VPI
<b>Frame Construction</b>	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Aluminum (≤ 112) Cast Iron (≥ 132)	Cast Iron
<b>Flanges</b>	C-Flange D-Flange (≥ 320)	C-Flange D-Flange	C-Flange D-Flange (≥ 320)	–	B5 (D-Flange) B14 (C-Flange)	C-Flange
<b>Stock Mounting</b>	F1	F1	F1	F1	F3	F1
<b>Vibration Level</b>	below 0.08 in/sec		below 0.08 in/sec			below 0.08 in/sec
<b>Classes / Divisions</b>	–	Class I, Div II, Group ABCD, T3C	–	–	–	–
<b>Enclosure</b>	TEFC	TEFC	TEFC	TEFC	TEFC	TEFC
<b>Certifications</b>	CSA-US, DOE, CE, NEMA Premium	CSA-US, DOE, CE, UR, NEMA Premium	CSA-US, DOE, CE, NEMA Premium	CSA-US, CE	CE	CSA-US, DOE, CE, NEMA Premium
<b>Warranty</b>	3 Year	3 Year	3 Year	3 Year	3 Year	3 Year

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56C (1PH) Rolled Steel	56C (3PH) Rolled Steel	High Torque Single Phase	Stainless Steel (1PH)	Stainless Steel (3PH)	JM/JP	SAE Hydraulic Pump	Design D Oil Well Pump
0.33-3 HP	0.33-3 HP	3-10 HP	0.50-2 HP	0.50-30 HP	1-60 HP	15 HP	3-100 HP
56C / 56HC	56C / 56HC	182-215T	56C / 56HC	56C-286TC	143-364	215YZ	213-445T
115/230V	208-230/460V	208-230/460V	115/230V	208-230/460V	208-230/460V	208-230/460V	230/460/796V
-	380V 50Hz at lower HP output	-	-	-	190/380V 50Hz	-	-
-	-	-	-	-	Available	-	-
1	3	1	1	3	3	3	3
3600-1800	3600-1800	3600-1800	3600-1800	3600-1800	3600-1800	1800	1200
B	B	L	B	B	B or A	B	D
-	≥ 1 HP Premium Efficient	-	-	≥ 1 HP Premium Efficient	NEMA Premium	-	-
1.15	1.15	1.15	1.15	1.15	up to 1.4	1.15	1.15
-	3:1CT & 5:1VT	-	-	3:1CT & 5:1VT	20:1VT	-	-
IP55	IP55	IP55	IP55	IP55 or IP56	IP55	IP55	IP55
Ball	Ball	Oversized Ball	Ball & Front Locked	Ball & Front Locked	Oversized Ball (DE & ODE) & Front Locked	Ball	Oversized Ball (DE & ODE)
Available	-	-	-	-	-	-	PTC Thermistors
Dip & Bake	Dip & Bake	VPI	Dip & Bake	VPI (TC-Frame)	VPI	VPI	VPI
Rolled Steel	Rolled Steel	Rolled Steel	Stainless Steel	Stainless Steel	Cast Iron	Rolled Steel	Cast Iron
C-Flange	C-Flange	C-Flange	C-Flange	C-Flange	C-Flange	SAE A 2 Bolt Pump Face Mount	-
F1	F1	F1	F1	F1	F1	F3	F2
-	-	-	-	-	below 0.08 in/sec	-	-
-	-	-	-	-	-	-	-
TEFC	TEFC	TEFC	TEFC	TEFC TENV (Fractional)	TEFC (ODP Replacement Available)	TEFC	TEFC
UL*, CE	UL*, CE	UL	UL, CE	UL, CE (56C) CSA-US, CE (TC)	CSA-US, DOE, CE, NEMA Premium	UL	CSA-US, CE
1 Year	1 Year	1 Year	1 Year	1 Year	3 Year	1 Year	3 Year

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

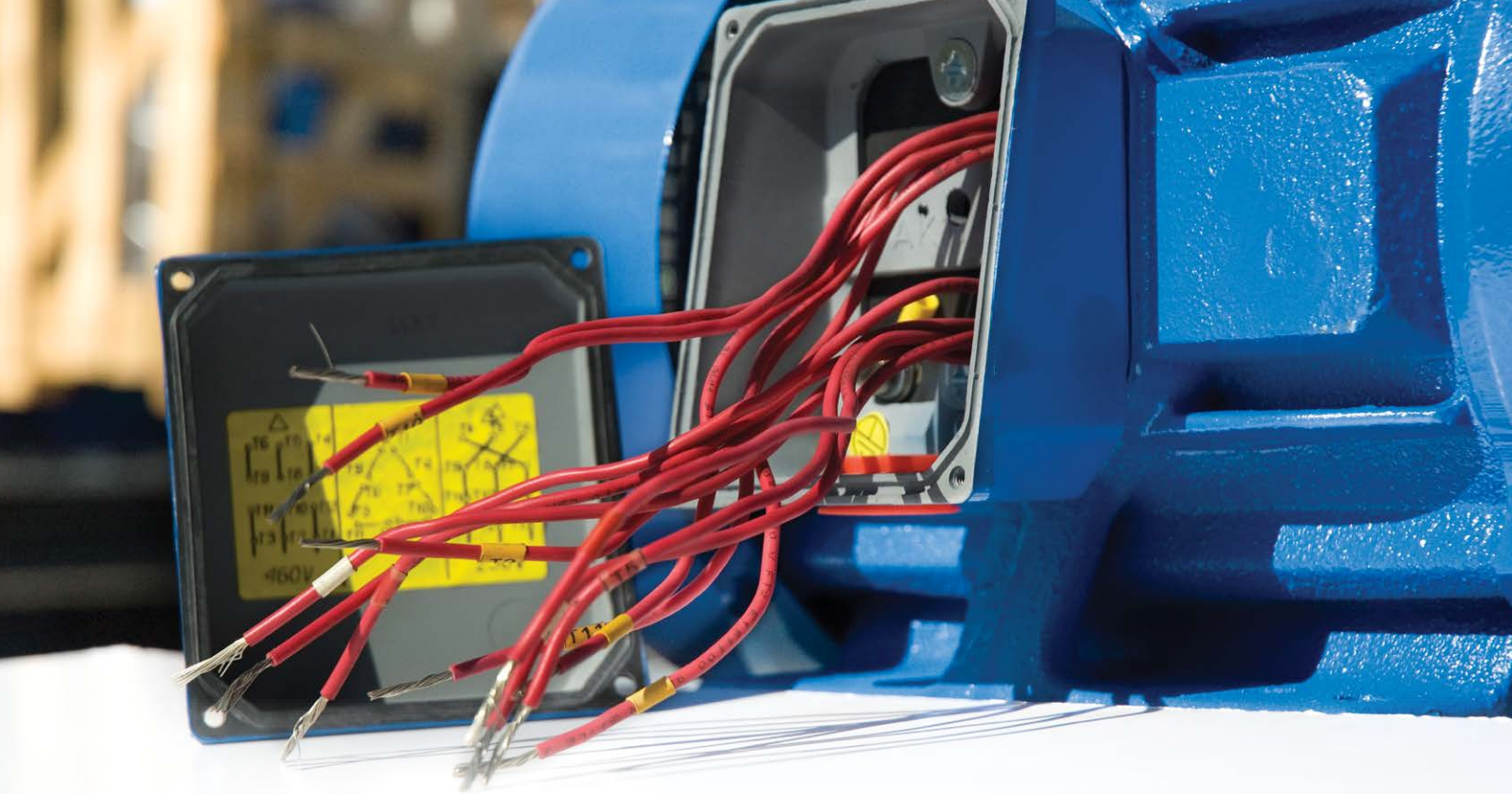
Brake Motors

Parts and Accessories

Technical Data

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\* Older inventory may be CSA certified in lieu of UL.



# Voltage Re-Rates

## Possible Supply Voltages for stock NEMA and Metric IEC Motors

Elektrim 20, 40 and 60 series motors are dual rated for 60/50 Hz and can be re-rated, according to your application's needs, to a multitude of possible supply voltages and environmental requirements (high/low ambient temperature or high altitude, etc.).

**Ordering Information:** Motors are re-rated from stock models. All re-rate modifications should be priced using the motor list price and the \$109 re-rate list price, unless indicated otherwise. Re-rate modifications of standard stock products, including voltage, must be indicated on purchase order when ordering. Lead time for re-rates is (1) business day and is subject to availability of stock motors in the Schaumburg, Illinois Warehouse.



60 Hz	50 Hz	
208V	190V	415V
230V	200V	420V
380V	220V	440V
400V	230V	500V
460V	240V	525V
480V	250V	660V
575V	380V	690V
600V	400V	720V
796V		

## Stock Motor Modifications

**Ordering Information:** All motor modifications are subject to availability of stock motors and parts in the Chicago (Schaumburg, IL) warehouse. Call 847-524-1074 or email support@elektrimmotors.com for details.

### Nameplate

- Replace existing motor nameplate with new nameplate with requested re-rate data (i.e. voltage, load, ambient temperature, etc.)
- Provide an extra unmounted motor nameplate with requested specifications.

### Mountings

- Install C-Face or D-Flange kit on NEMA motors
- Install B5 (D-Flange) or B14 (C-Flange) on IEC motors
- Convert F1 to F2, sidewall or ceiling mount
- Add cast iron fan cover and/or junction box

### Shaft Modifications

- Turn down the shaft from T to TS, or other required size
- Extend the shaft length to specification
- Drill and tap one hole in either end of the motor's shaft or mill a flat on the drive end shaft extension
- Threading

### Bearings

- Change Ball Bearings to Roller Bearings and vice versa.
- Change bearing type to a low temperature bearing.
- Install insulated bearings.
- Install sealed bearings.

### Accessories

- Add space heaters
- Add thermal protection (thermostat, RTD's, PTC thermistor, etc.)
- Add junction box for accessory leads
- AEGIS ring installation
- Bearing RTD's

### Terminal Blocks

- Install terminal block for NEMA or IEC Metric motor

### Blowers

- Add constant velocity blower kit on NEMA (180-440 frame) or IEC (112-280 frame) motors

### Drip Covers

- Install drip cover for NEMA or IEC Metric motor for outdoor shaft down applications.

### Junction Box

- Tap or provide additional lead hole
- Rotate junction box lead opening
- Add oversized cast iron junction box
- Replace die cast aluminum junction box
- Add junction box for thermal protection (thermostat, RTD, PTC thermistor, etc.) or space heater

### Drain Holes

- Add anti-condensation drain holes at the lowest point of the motor, including holes recommended for vertical operation
- Install "T" drain plugs
- Close standard anti-condensation drain holes

### Leads

- Install terminal lugs
- Reduction from (12) twelve leads to (6) six leads
- Connect for high or low voltage

### Grounding Screws

- Add grounding screw on endplate or in a specified location

### Paint

- Custom colors available

## Performance Series – 1-400 HP

3PH TEFC 60/50 Hz NEMA AC Foot Mounted Motors

**Applications:** Ideal for a wide variety of industrial applications that require a premium efficient foot mounted motor, such as fans & blowers, pumps, conveyors, crushers, compressors, mixers and more.



### Features

- Inverter Duty Rated: 10:1CT & 20:1VT
- Service Factor: up to 1.4
- Design: "B" or "A"
- Protection Degree: IP55
- Enclosure: TEFC rigid cast iron frame
- Motors meet NEMA premium efficiency requirements
- VPI applied for best electrical performance
- Oversized ball bearings on both ends
- Designed for horizontal and vertical application
- Low vibration level (below 0.08 in/sec)
- Dual rated for 190/380V 50 Hz
- 575V and other ratings available
- Class "F" insulation with rise at or below Class "B"
- PTC140 thermistors standard for 320 frame and up
- Space heaters standard 447 frame and up
- Motors 213T and larger suitable for wye/delta starting
- Impregnation resin and winding wire Class "H" (DN2E200)
- Stainless steel nameplate with connection diagram
- Efficiency tested according to IEEE112 Method B
- CSA-US certified, DOE approved, CE and NEMA Premium<sup>®</sup> marked
- Warranty: 3-Years

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	Footed Part Number	List Price	Notes (a)
1	1800	143T	85.5	78	208-230/460V	3.1-2.8/1.4	1.4	B	53	–	20NFM-3-1-18	515.00	4,22
	1200	145T	82.5	68	208-230/460V	3.8-3.4/1.7	1.4	B	55	–	20NFM-3-1-12	594.00	4,22
	3600	143T	84.5	78	208-230/460V	4.6-4.2/2.1	1.4	B	56	–	20NFM-3-1.5-36	563.00	4,22
1.5	1800	145T	87	79	208-230/460V	4.4-4/2	1.4	B	57	–	20NFM-3-1.5-18	550.00	4,22
	1200	182T	87.5	68	208-230/460V	5.3-4.8/2.4	1.4	B	85	–	20NFM-3-1.5-12	737.00	4,9,22
	3600	145T	86	82	208-230/460V	6.5-4/2.7	1.4	B	57	–	20NFM-3-2-36	608.00	4,22
2	1800	145T	86.5	83	208-230/460V	5.8-5.2/2.6	1.4	B	59	–	20NFM-3-2-18	604.00	4,22
	1200	184T	88.5	72	208-230/460V	6.6-6/3	1.4	B	98	–	20NFM-3-2-12	801.00	4,9,22
	3600	182T	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	–	20NFM-3-3-36	747.00	4,9,22
3	1800	182T	89.5	75	208-230/460V	9.3-8.4/4.2	1.4	A	102	–	20NFM-3-3-18	678.00	4,9,22
	1200	213T	89.5	74	208-230/460V	9.3-8.4/4.2	1.4	B	205	–	20NFM-3-3-12	1,103.00	4,9,23
	3600	184T	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	–	20NFM-3-5-36	897.00	4,9,22
5	1800	184T	89.5	78	208-230/460V	14.8-13.4/6.7	1.3	A	108	–	20NFM-3-5-18	795.00	4,9,22
	1200	215T	89.5	75	208-230/460V	15.5-14/7	1.3	B	220	–	20NFM-3-5-12	1,371.00	4,9,23
	3600	213T	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	–	20NFM-3-7.5-36	1,125.00	4,9,23
7.5	1800	213T	91.7	82	208-230/460V	20.6-18.6/9.3	1.3	A	167	–	20NFM-3-7.5-18	1,099.00	4,9,23
	1200	254T	91	74	208-230/460V	23-20.8/10.4	1.3	A	321	–	20NFM-3-7.5-12	1,995.00	4,23
	3600	215T	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	–	20NFM-3-10-36	1,289.00	4,9,23
10	1800	215T	91.7	82	208-230/460V	27.6-25/12.5	1.3	A	185	–	20NFM-3-10-18	1,277.00	4,9,23
	1200	256T	91	77	208-230/460V	29.6-26.8/13.4	1.3	A	363	–	20NFM-3-10-12	2,340.00	4,23
	3600	254T	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	–	20NFM-3-15-36	1,728.00	4,23
15	1800	254T	92.4	88	208-230/460V	38.3-34.6/17.3	1.3	A	301	–	20NFM-3-15-18	1,824.00	4,23
	1200	284T	91.7	79	208-230/460V	43.1-39/19.5	1.3	A	371	–	20NFM-3-15-12	3,215.00	4,9,23
	3600	256T	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	–	20NFM-3-20-36	2,126.00	4,23
20	1800	256T	93	88	208-230/460V	50.6-45.8/22.9	1.2	A	390	–	20NFM-3-20-18	2,173.00	4,23
	1200	286T	91.7	80	208-230/460V	56.4-51/25.5	1.2	A	421	–	20NFM-3-20-12	3,870.00	4,9,23
	3600	284TS	92.4	86	208-230/460V	65.2-59/29.5	1.2	A	348	–	20NFM-3-25-36	2,634.00	4,9,23
25	1800	284T	93.6	82	208-230/460V	67.5-61/30.5	1.2	A	397	–	20NFM-3-25-18	2,707.00	4,9,23
	1200	324T	93	80	208-230/460V	69.7-63/31.5	1.3	B	653	Yes	20NFM-3-25-12	4,973.00	9,13,16,23

### Performance Data & Mounting Dimensions: 74 - 78

Motors can be modified from Footed to C-Face and vice versa.

(a) See notes on inside back cover.



Performance Series, NEMA AC 3PH, Foot Mounted

1-400 HP

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	Footed Part Number	List Price	Notes (a)
30	3600	286TS	91.7	87	208-230/460V	77.8-70.4/35.2	1.2	A	390	-	20NFM-3-30-36	3,114.00	4,9,23
	1800	286T	93.6	80	208-230/460V	82.9-75/37.5	1.2	A	441	-	20NFM-3-30-18	3,147.00	4,9,23
	1200	326T	93	82	208-230/460V	81.8-74/37	1.3	B	681	Yes	20NFM-3-30-12	5,427.00	9,13,16,23
40	3600	324TS	93	92	208-230/460V	97.3-88/44	1.2	B	608	Yes	20NFM-3-40-36	5,327.00	9,13,16,23
	1800	324T	94.1	88	208-230/460V	99.5-90/45	1.3	B	690	Yes	20NFM-3-40-18	5,158.00	9,13,16,23
	1200	364T	94.1	82	208-230/460V	107.3-97/48.5	1.3	B	917	Yes	20NFM-3-40-12	7,135.00	9,13,16,23
50	3600	326TS	93	92	208-230/460V	121.6-110/55	1.2	B	655	Yes	20NFM-3-50-36	5,842.00	9,13,16,23
	1800	326T	94.5	88	208-230/460V	123.8-112/56	1.3	B	769	Yes	20NFM-3-50-18	5,636.00	9,13,16,23
	1200	365T	94.1	83	208-230/460V	132.7-120/60	1.3	B	970	Yes	20NFM-3-50-12	8,690.00	9,13,16,23
60	3600	364TS	93.6	92	208-230/460V	143.8-130/65	1.2	B	860	Yes	20NFM-3-60-36	7,794.00	9,13,16,23
	1800	364T	95	88	208-230/460V	148.2-134/67	1.2	B	926	Yes	20NFM-3-60-18	7,216.00	9,13,16,23
	1200	404T	94.5	82	208-230/460V	159.2-144/72	1.3	B	1127	Yes	20NFM-3-60-12	10,251.00	9,13,16,23
75	3600	365TS	94.1	92	208-230/460V	179.1-162/81	1.2	B	933	Yes	20NFM-3-75-36	9,165.00	9,13,16,23
	1800	365T	95.4	88	208-230/460V	185.8-168/84	1.2	B	1012	Yes	20NFM-3-75-18	8,684.00	9,13,16,23
	1200	405T	94.5	82	208-230/460V	201.3-182/91	1.2	B	1210	Yes	20NFM-3-75-12	11,775.00	9,13,16,23
100	3600	405TS	95.4	90	208-230/460V	241.1-218/109	1.2	B	1058	Yes	20NFM-3-100-36	11,334.00	9,13,16,23
	1800	405T	95.4	91	208-230/460V	238.8-216/108	1.2	B	1241	Yes	20NFM-3-100-18	11,661.00	9,13,16,23
	1200	444T	95	80	208-230/460V	272-246/123	1.2	B	1726	Yes	20NFM-3-100-12	15,264.00	9,13,16,23
125	3600	444TS	95.4	92	460V	133	1.2	B	1488	Yes	20NFM-3-125-36	15,496.00	9,13,16,21,24
	1800	444T	95.8	90	460V	136	1.2	B	1662	Yes	20NFM-3-125-18	14,866.00	9,13,16,21,24
	1200	445T	95.4	80	460V	153	1.2	B	1931	Yes	20NFM-3-125-12	17,526.00	9,13,16,21,24
150	3600	445TS	95.8	92	460V	159	1.2	B	1594	Yes	20NFM-3-150-36	18,089.00	9,13,16,21,24
	1800	445T	95.8	91	460V	161	1.2	B	1823	Yes	20NFM-3-150-18	17,560.00	9,13,16,21,24
200	3600	447TS	95.8	93	460V	210	1.2	B	2161	Yes	20NFM-3-200-36	21,465.00	9,13,16,21,24
	1800	447T	96.5	89	460V	218	1.2	B	2310	Yes	20NFM-3-200-18	21,251.00	9,13,16,21,24
250	3600	447TS	96.2	93	460V	261	1.2	B	2271	Yes	20NFM-3-250-36	23,295.00	9,13,16,21,24
	1800	447T	96.2	91	460V	267	1.2	B	2447	Yes	20NFM-3-250-18	24,546.00	9,13,16,21,24
	1200	449T	95.0	81	460V	304	1.15	C <sup>(1)</sup>	2645	Yes	40NFM-3-250-12	33,904.00	4,9,16,21,24
300	3600	447TS	95.5	92	460V	320	1.0	B	2271	Yes	20NFM-3-300-36	25,624.00	9,13,16,21,24
	1800	447T	95.9	90	460V	325	1.0	B	2447	Yes	20NFM-3-300-18	27,001.00	9,13,16,21,24
	1800	449T	95.4	87	460V	338	1.15	C <sup>(1)</sup>	2665	Yes	40NFM-3-300-18	31,682.00	4,9,16,21,24
	1200	449T	95.0	81	460V	365	1.15	C <sup>(1)</sup>	2830	Yes	40NFM-3-300-12	34,904.00	4,9,16,21,24
350	1800	449T	95.4	87	460V	395	1.15	C <sup>(1)</sup>	2830	Yes	40NFM-3-350-18	33,128.00	4,9,16,21,24
400	1800	449T	95.2	87	460V	457	1.0	C <sup>(1)</sup>	2830	Yes	40NFM-3-400-18	34,526.00	4,9,16,21,24

575V MOTORS †

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V Footed Part Number	List Price	Notes (a)
1	1800	143T	85.5	78	575V	1.1	1.15	B	53	-	20NFM-3-1-18/575	629.00	4,33
	1200	145T	82.5	68	575V	1.4	1.15	B	55	-	20NFM-3-1-12/575	708.00	4,33
1.5	3600	143T	84.5	78	575V	1.7	1.15	B	56	-	20NFM-3-1.5-36/575	678.00	4,33
	1800	145T	87	79	575V	1.6	1.15	B	57	-	20NFM-3-1.5-18/575	664.00	4,33
	1200	182T	87.5	68	575V	1.9	1.15	B	85	-	20NFM-3-1.5-12/575	851.00	4,9,33
2	3600	145T	86	82	575V	2.7	1.15	B	57	-	20NFM-3-2-36/575	723.00	4,33
	1800	145T	86.5	83	575V	2.1	1.15	B	59	-	20NFM-3-2-18/575	719.00	4,33
	1200	184T	88.5	72	575V	2.4	1.15	B	98	-	20NFM-3-2-12/575	915.00	4,9,33
3	3600	182T	86.5	82	575V	3.2	1.15	B	76	-	20NFM-3-3-36/575	861.00	4,9,33
	1800	182T	89.5	75	575V	3.4	1.15	A	102	-	20NFM-3-3-18/575	792.00	4,9,33
	1200	213T	89.5	74	575V	3.4	1.15	B	205	-	20NFM-3-3-12/575	1,217.00	4,9,32

Performance Data & Mounting Dimensions: 74 - 78

Motors can be modified from Footed to C-Face and vice versa.

<sup>(1)</sup> Design C motors are modified from equivalent Crusher Series (40NFC) on request, and are not premium efficient.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

<sup>(a)</sup> See notes on inside back cover.

General Information

### Performance Series, NEMA AC 3PH, Foot Mounted, 575V

1-100 HP

#### 575V MOTORS †

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V Footed Part Number	List Price	Notes (a)
5	3600	184T	89	85	575V	5	1.15	A	102	–	20NFM-3-5-36/575	1,012.00	4,9,33
	1800	184T	89.5	78	575V	5.4	1.15	A	108	–	20NFM-3-5-18/575	910.00	4,9,33
	1200	215T	89.5	75	575V	5.6	1.15	B	220	–	20NFM-3-5-12/575	1,485.00	4,9,32
7.5	3600	213T	90	92	575V	6.8	1.15	A	159	–	20NFM-3-7.5-36/575	1,239.00	4,9,32
	1800	213T	91.7	82	575V	7.4	1.15	A	167	–	20NFM-3-7.5-18/575	1,213.00	4,9,32
	1200	254T	91	74	575V	8.3	1.15	A	321	–	20NFM-3-7.5-12/575	2,110.00	4,32
10	3600	215T	90.2	91	575V	9.1	1.15	A	173	–	20NFM-3-10-36/575	1,403.00	4,9,32
	1800	215T	91.7	82	575V	10	1.15	A	185	–	20NFM-3-10-18/575	1,392.00	4,9,32
	1200	256T	91	77	575V	10.7	1.15	A	363	–	20NFM-3-10-12/575	2,454.00	4,32
15	3600	254T	91.7	87	575V	14.1	1.15	B	258	–	20NFM-3-15-36/575	1,842.00	4,32
	1800	254T	92.4	88	575V	13.8	1.15	A	301	–	20NFM-3-15-18/575	1,939.00	4,32
	1200	284T	91.7	79	575V	15.6	1.15	A	371	–	20NFM-3-15-12/575	3,329.00	4,9,32
20	3600	256T	92	89	575V	18.3	1.15	B	306	–	20NFM-3-20-36/575	2,240.00	4,32
	1800	256T	93	88	575V	18.3	1.15	A	390	–	20NFM-3-20-18/575	2,287.00	4,32
	1200	286T	91.7	80	575V	20.4	1.15	A	421	–	20NFM-3-20-12/575	3,984.00	4,9,32
25	3600	284TS	92.4	86	575V	23.6	1.15	A	348	–	20NFM-3-25-36/575	2,748.00	4,9,32
	1800	284T	93.6	82	575V	24.4	1.15	A	397	–	20NFM-3-25-18/575	2,822.00	4,9,32
	1200	324T	93	80	575V	25	1.15	B	653	Yes	20NFM-3-25-12/575	5,088.00	9,13,16,32
30	3600	286TS	91.7	87	575V	28.2	1.15	A	390	–	20NFM-3-30-36/575	3,228.00	4,9,32
	1800	286T	93.6	80	575V	30	1.15	A	441	–	20NFM-3-30-18/575	3,262.00	4,9,32
	1200	326T	93	82	575V	30	1.15	B	681	Yes	20NFM-3-30-12/575	5,541.00	9,13,16,32
40	3600	324TS	93	92	575V	35	1.15	B	608	Yes	20NFM-3-40-36/575	5,442.00	9,13,16,32
	1800	324T	94.1	88	575V	36	1.15	B	690	Yes	20NFM-3-40-18/575	5,273.00	9,13,16,32
	1200	364T	94.1	82	575V	39	1.15	B	917	Yes	20NFM-3-40-12/575	7,250.00	9,13,16,32
50	3600	326TS	93	92	575V	44	1.15	B	655	Yes	20NFM-3-50-36/575	5,956.00	9,13,16,32
	1800	326T	94.5	88	575V	45	1.15	B	769	Yes	20NFM-3-50-18/575	5,750.00	9,13,16,32
	1200	365T	94.1	83	575V	48	1.15	B	970	Yes	20NFM-3-50-12/575	8,805.00	9,13,16,32
60	3600	364TS	93.6	92	575V	52	1.15	B	860	Yes	20NFM-3-60-36/575	7,908.00	9,13,16,32
	1800	364T	95	88	575V	54	1.15	B	926	Yes	20NFM-3-60-18/575	7,331.00	9,13,16,32
	1200	404T	94.5	82	575V	58	1.15	B	1127	Yes	20NFM-3-60-12/575	10,365.00	9,13,16,32
75	3600	365TS	94.1	92	575V	65	1.15	B	933	Yes	20NFM-3-75-36/575	9,279.00	9,13,16,32
	1800	365T	95.4	88	575V	67	1.15	B	1012	Yes	20NFM-3-75-18/575	8,798.00	9,13,16,32
	1200	405T	94.5	82	575V	73	1.15	B	1210	Yes	20NFM-3-75-12/575	11,890.00	9,13,16,32
100	3600	405TS	95.4	90	575V	87	1.15	B	1058	Yes	20NFM-3-100-36/575	11,449.00	9,13,16,32
	1800	405T	95.4	91	575V	86	1.15	B	1241	Yes	20NFM-3-100-18/575	11,775.00	9,13,16,32
	1200	444T	95	80	575V	98	1.15	B	1726	Yes	20NFM-3-100-12/575	15,379.00	9,13,16,32

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### Performance Data & Mounting Dimensions: 74 - 78

Motors can be modified from Footed to C-Face and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

## Performance Series – 1-400 HP

3PH TEFC 60/50 Hz NEMA AC C-Face Motors

**Applications:** Ideal for a wide variety of industrial applications that require a premium efficient foot mounted motor, such as fans & blowers, pumps, conveyors, crushers, compressors, mixers and more.



### Features

- Inverter Duty Rated: 10:1CT & 20:1VT
- Service Factor: up to 1.4
- Design: "B" or "A"
- Protection Degree: IP55
- Enclosure: TEFC rigid cast iron frame
- Motors meet NEMA premium efficiency requirements
- VPI applied for best electrical performance
- Oversized ball bearings on both ends
- Designed for horizontal and vertical application
- Low vibration level (below 0.08 in/sec)
- Dual rated for 190/380V 50 Hz
- 575V and other ratings available upon request
- Class "F" insulation with rise at or below Class "B"
- PTC140 thermistors standard for 320 frame and up
- Space heaters standard 447 frame and up
- Motors 213T and larger suitable for wye/delta starting
- Impregnation resin and winding wire Class "H" (DN2E200)
- Stainless steel nameplate with connection diagram
- Efficiency tested according to IEEE112 Method B
- CSA-US certified, DOE approved, CE and NEMA Premium® marked
- Warranty: 3-Years

### C-FACE MOTORS WITHOUT FEET (FOOTLESS)

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footless	C-Face Part Number	List Price	Notes (a)
3	3600	182TC	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	Footless	20NCM-3-3-36RB	809.00	4,22
5	3600	184TC	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	Footless	20NCM-3-5-36RB	972.00	4,22
7.5	3600	213TC	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	Footless	20NCM-3-7.5-36RB	1,218.00	4,23
10	3600	215TC	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	Footless	20NCM-3-10-36RB	1,396.00	4,23
15	3600	254TC	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	Footless	20NCM-3-15-36RB	1,872.00	4,23
20	3600	256TC	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	Footless	20NCM-3-20-36RB	2,302.00	4,23

### C-FACE MOTORS WITH FEET

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	C-Face Part Number	List Price	Notes (a)
1	1800	143TC	85.5	78	208-230/460V	3.1-2.8/1.4	1.4	B	53	–	20NCM-3-1-18	558.00	4,22
	1200	145TC	82.5	68	208-230/460V	3.8-3.4/1.7	1.4	B	55	–	20NCM-3-1-12	643.00	4,22
	3600	143TC	84.5	78	208-230/460V	4.6-4.2/2.1	1.4	B	56	–	20NCM-3-1.5-36	609.00	4,22
1.5	1800	145TC	87	79	208-230/460V	4.4-4/2	1.4	B	57	–	20NCM-3-1.5-18	596.00	4,22
	1200	182TC	87.5	68	208-230/460V	5.3-4.8/2.4	1.4	B	85	–	20NCM-3-1.5-12	797.00	4,9,22
2	3600	145TC	86	82	208-230/460V	6-5.4/2.7	1.4	B	57	–	20NCM-3-2-36	659.00	4,22
	1800	145TC	86.5	83	208-230/460V	5.8-5.2/2.6	1.4	B	59	–	20NCM-3-2-18	655.00	4,22
3	1200	184TC	88.5	72	208-230/460V	6.6-6/3	1.4	B	98	–	20NCM-3-2-12	867.00	4,9,22
	3600	182TC	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	–	20NCM-3-3-36	809.00	4,9,22
	1800	182TC	89.5	75	208-230/460V	9.3-8.4/4.2	1.4	A	102	–	20NCM-3-3-18	717.00	4,9,22
5	1200	213TC	89.5	74	208-230/460V	9.3-8.4/4.2	1.4	B	205	–	20NCM-3-3-12	1,194.00	4,9,23
	3600	184TC	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	–	20NCM-3-5-36	972.00	4,9,22
	1800	184TC	89.5	78	208-230/460V	14.8-13.4/6.7	1.3	A	108	–	20NCM-3-5-18	860.00	4,9,22
7.5	1200	215TC	89.5	75	208-230/460V	15.5-14/7	1.3	B	220	–	20NCM-3-5-12	1,485.00	4,9,23
	3600	213TC	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	–	20NCM-3-7.5-36	1,218.00	4,9,23
	1800	213TC	91.7	82	208-230/460V	20.6-18.6/9.3	1.3	A	167	–	20NCM-3-7.5-18	1,176.00	4,9,23
7.5	1200	254TC	91	74	208-230/460V	23-20.8/10.4	1.3	A	321	–	20NCM-3-7.5-12	2,160.00	4,23

### Performance Data & Mounting Dimensions: 74 - 78

Motors can be modified from Footed to C-Face and vice versa.

(a) See notes on inside back cover.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

### Performance Series, NEMA AC 3PH, C-Face

### 1-400 HP

C-FACE MOTORS WITH FEET													
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	C-Face Part Number	List Price	Notes <sup>(a)</sup>
10	3600	215TC	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	–	20NCM-3-10-36	1,396.00	4,9,23
	1800	215TC	91.7	82	208-230/460V	27.6-25/12.5	1.3	A	185	–	20NCM-3-10-18	1,376.00	4,9,23
	1200	256TC	91	77	208-230/460V	29.6-26.8/13.4	1.3	A	363	–	20NCM-3-10-12	2,534.00	4,23
15	3600	254TC	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	–	20NCM-3-15-36	1,872.00	4,23
	1800	254TC	92.4	88	208-230/460V	38.3-34.6/17.3	1.3	A	301	–	20NCM-3-15-18	1,976.00	4,23
	1200	284TC	91.7	79	208-230/460V	43.1-39/19.5	1.3	A	371	–	20NCM-3-15-12	3,481.00	4,9,23
20	3600	256TC	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	–	20NCM-3-20-36	2,302.00	4,23
	1800	256TC	93	88	208-230/460V	50.6-45.8/22.9	1.2	A	390	–	20NCM-3-20-18	2,354.00	4,23
	1200	286TC	91.7	80	208-230/460V	56.4-51/25.5	1.2	A	421	–	20NCM-3-20-12	4,190.00	4,9,23
25	3600	284TSC	92.4	86	208-230/460V	65.2-59/29.5	1.2	A	348	–	20NCM-3-25-36	2,852.00	4,9,23
	1800	284TC	93.6	82	208-230/460V	67.5-61/30.5	1.2	A	397	–	20NCM-3-25-18	2,932.00	4,9,23
	1200	324TC	93	80	208-230/460V	69.7-63/31.5	1.3	B	653	Yes	20NCM-3-25-12	5,386.00	9,13,16,23
30	3600	286TSC	91.7	87	208-230/460V	77.8-70.4/35.2	1.2	A	390	–	20NCM-3-30-36	3,372.00	4,9,23
	1800	286TC	93.6	80	208-230/460V	82.9-75/37.5	1.2	A	441	–	20NCM-3-30-18	3,409.00	4,9,23
	1200	326TC	93	82	208-230/460V	81.8-74/37	1.3	B	681	Yes	20NCM-3-30-12	5,876.00	9,13,16,23
40	3600	324TSC	93	92	208-230/460V	97.3-88/44	1.2	B	608	Yes	20NCM-3-40-36	5,769.00	9,13,16,23
	1800	324TC	94.1	88	208-230/460V	99.5-90/45	1.3	B	690	Yes	20NCM-3-40-18	5,585.00	9,13,16,23
	1200	364TC	94.1	82	208-230/460V	107.3-97/48.5	1.3	B	917	Yes	20NCM-3-40-12	7,727.00	9,13,16,23
50	3600	326TSC	93	92	208-230/460V	121.6-110/55	1.2	B	655	Yes	20NCM-3-50-36	6,327.00	9,13,16,23
	1800	326TC	94.5	88	208-230/460V	123.8-112/56	1.3	B	769	Yes	20NCM-3-50-18	6,104.00	9,13,16,23
	1200	365TC	94.1	83	208-230/460V	132.7-120/60	1.3	B	970	Yes	20NCM-3-50-12	9,412.00	9,13,16,23
60	3600	364TSC	93.6	92	208-230/460V	143.8-130/65	1.2	B	860	Yes	20NCM-3-60-36	8,440.00	9,13,16,23
	1800	364TC	95	88	208-230/460V	148.2-134/67	1.2	B	926	Yes	20NCM-3-60-18	7,815.00	9,13,16,23
	1200	404TC	94.5	82	208-230/460V	159.2-144/72	1.3	B	1127	Yes	20NCM-3-60-12	11,101.00	9,13,16,23
75	3600	365TSC	94.1	92	208-230/460V	179.1-162/81	1.2	B	933	Yes	20NCM-3-75-36	9,925.00	9,13,16,23
	1800	365TC	95.4	88	208-230/460V	185.8-168/84	1.2	B	1012	Yes	20NCM-3-75-18	9,404.00	9,13,16,23
	1200	405TC	94.5	82	208-230/460V	201.3-182/91	1.2	B	1210	Yes	20NCM-3-75-12	12,753.00	9,13,16,23
100	3600	405TSC	95.4	90	208-230/460V	241.1-218/109	1.2	B	1058	Yes	20NCM-3-100-36	12,275.00	9,13,16,23
	1800	405TC	95.4	91	208-230/460V	238.8-216/108	1.2	B	1241	Yes	20NCM-3-100-18	12,628.00	9,13,16,23
	1200	444TC	95	80	208-230/460V	272-246/123	1.2	B	1726	Yes	20NCM-3-100-12	16,531.00	9,13,16,23
125	3600	444TSC	95.4	92	460V	133	1.2	B	1488	Yes	20NCM-3-125-36	16,783.00	9,13,16,21,24
	1800	444TC	95.8	90	460V	136	1.2	B	1662	Yes	20NCM-3-125-18	16,100.00	9,13,16,21,24
	1200	445TC	95.4	80	460V	153	1.2	B	1931	Yes	20NCM-3-125-12	18,980.00	9,13,16,21,24
150	3600	445TSC	95.8	92	460V	159	1.2	B	1594	Yes	20NCM-3-150-36	19,590.00	9,13,16,21,24
	1800	445TC	95.8	91	460V	161	1.2	B	1823	Yes	20NCM-3-150-18	19,017.00	9,13,16,21,24
	1200	447TC	95.8	93	460V	210	1.2	B	2161	Yes	20NCM-3-200-36	23,245.00	9,13,16,21,24
200	1800	447TC	96.5	89	460V	218	1.2	B	2310	Yes	20NCM-3-200-18	23,014.00	9,13,16,21,24
	3600	447TSC	96.2	93	460V	261	1.2	B	2271	Yes	20NCM-3-250-36	25,228.00	9,13,16,21,24
	1800	447TC	96.2	91	460V	267	1.2	B	2447	Yes	20NCM-3-250-18	26,583.00	9,13,16,21,24
250	1200	449TC	95.0	81	460V	304	1.15	C <sup>(1)</sup>	2645	Yes	40NCM-3-250-12	35,749.00	4,9,16,21,24
	3600	447TSC	95.5	92	460V	320	1.0	B	2271	Yes	20NCM-3-300-36	27,751.00	9,13,16,21,24
	1800	447TC	95.9	90	460V	325	1.0	B	2447	Yes	20NCM-3-300-18	29,242.00	9,13,16,21,24
300	1800	449TC	95.4	87	460V	338	1.15	C <sup>(1)</sup>	2665	Yes	40NCM-3-300-18	33,527.00	4,9,16,21,24
	1200	449TC	95.0	81	460V	365	1.15	C <sup>(1)</sup>	2830	Yes	40NCM-3-300-12	36,749.00	4,9,16,21,24
	350	1800	449TC	95.4	87	460V	395	1.15	C <sup>(1)</sup>	2830	Yes	40NCM-3-350-18	34,973.00
400	1800	449TC	95.2	87	460V	452	1.0	C <sup>(1)</sup>	2830	Yes	40NCM-3-400-18	36,371.00	4,9,16,21,24

#### Performance Data & Mounting Dimensions: 74 - 78

Motors can be modified from Footed to C-Face and vice versa.

<sup>(1)</sup> Design C motors are modified from equivalent Crusher Series (40NFC) on request, and are not premium efficient.

<sup>†</sup> 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

<sup>(a)</sup> See notes on inside back cover.

Performance Series, NEMA AC 3PH, C-Face, 575V

1-100 HP

575V C-FACE MOTORS WITH FEET †													
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V Footed Part Number	List Price	Notes (a)
1	1800	143TC	85.5	78	575V	1.1	1.15	B	53	–	20NCM-3-1-18/575	672.00	4,33
	1200	145TC	82.5	68	575V	1.4	1.15	B	55	–	20NCM-3-1-12/575	758.00	4,33
1.5	3600	143TC	84.5	78	575V	1.7	1.15	B	56	–	20NCM-3-1.5-36/575	724.00	4,33
	1800	145TC	87	79	575V	1.6	1.15	B	57	–	20NCM-3-1.5-18/575	710.00	4,33
	1200	182TC	87.5	68	575V	1.9	1.15	B	85	–	20NCM-3-1.5-12/575	912.00	4,9,33
2	3600	145TC	86	82	575V	2.7	1.15	B	57	–	20NCM-3-2-36/575	773.00	4,33
	1800	145TC	86.5	83	575V	2.1	1.15	B	59	–	20NCM-3-2-18/575	769.00	4,33
	1200	184TC	88.5	72	575V	2.4	1.15	B	98	–	20NCM-3-2-12/575	981.00	4,9,33
3	3600	182TC	86.5	82	575V	3.2	1.15	B	76	–	20NCM-3-3-36/575	923.00	4,9,33
	1800	182TC	89.5	75	575V	3.4	1.15	A	102	–	20NCM-3-3-18/575	831.00	4,9,33
	1200	213TC	89.5	74	575V	3.4	1.15	B	205	–	20NCM-3-3-12/575	1,309.00	4,9,32
5	3600	184TC	89	85	575V	5	1.15	A	102	–	20NCM-3-5-36/575	1,086.00	4,9,33
	1800	184TC	89.5	78	575V	5.4	1.15	A	108	–	20NCM-3-5-18/575	975.00	4,9,33
	1200	215TC	89.5	75	575V	5.6	1.15	B	220	–	20NCM-3-5-12/575	1,600.00	4,9,32
7.5	3600	213TC	90	92	575V	6.8	1.15	A	159	–	20NCM-3-7.5-36/575	1,333.00	4,9,32
	1800	213TC	91.7	82	575V	7.4	1.15	A	167	–	20NCM-3-7.5-18/575	1,291.00	4,9,32
	1200	254TC	91	74	575V	8.3	1.15	A	321	–	20NCM-3-7.5-12/575	2,275.00	4,32
10	3600	215TC	90.2	91	575V	9.1	1.15	A	173	–	20NCM-3-10-36/575	1,510.00	4,9,32
	1800	215TC	91.7	82	575V	10	1.15	A	185	–	20NCM-3-10-18/575	1,490.00	4,9,32
	1200	256TC	91	77	575V	10.7	1.15	A	363	–	20NCM-3-10-12/575	2,649.00	4,32
15	3600	254TC	91.7	87	575V	14.1	1.15	B	258	–	20NCM-3-15-36/575	1,986.00	4,32
	1800	254TC	92.4	88	575V	13.8	1.15	A	301	–	20NCM-3-15-18/575	2,090.00	4,32
	1200	284TC	91.7	79	575V	15.6	1.15	A	371	–	20NCM-3-15-12/575	3,596.00	4,9,32
20	3600	256TC	92	89	575V	18.3	1.15	B	306	–	20NCM-3-20-36/575	2,417.00	4,32
	1800	256TC	93	88	575V	18.3	1.15	A	390	–	20NCM-3-20-18/575	2,468.00	4,32
	1200	286TC	91.7	80	575V	20.4	1.15	A	421	–	20NCM-3-20-12/575	4,304.00	4,9,32
25	3600	284TSC	92.4	86	575V	23.6	1.15	A	348	–	20NCM-3-25-36/575	2,967.00	4,9,32
	1800	284TC	93.6	82	575V	24.4	1.15	A	397	–	20NCM-3-25-18/575	3,047.00	4,9,32
	1200	324TC	93	80	575V	25	1.15	B	653	Yes	20NCM-3-25-12/575	5,500.00	9,13,16,32
30	3600	286TSC	91.7	87	575V	28.2	1.15	A	390	–	20NCM-3-30-36/575	3,486.00	4,9,32
	1800	286TC	93.6	80	575V	30	1.15	A	441	–	20NCM-3-30-18/575	3,523.00	4,9,32
	1200	326TC	93	82	575V	30	1.15	B	681	Yes	20NCM-3-30-12/575	5,991.00	9,13,16,32
40	3600	324TSC	93	92	575V	35	1.15	B	608	Yes	20NCM-3-40-36/575	5,884.00	9,13,16,32
	1800	324TC	94.1	88	575V	36	1.15	B	690	Yes	20NCM-3-40-18/575	5,700.00	9,13,16,32
	1200	364TC	94.1	82	575V	39	1.15	B	917	Yes	20NCM-3-40-12/575	7,842.00	9,13,16,32
50	3600	326TSC	93	92	575V	44	1.15	B	655	Yes	20NCM-3-50-36/575	6,441.00	9,13,16,32
	1800	326TC	94.5	88	575V	45	1.15	B	769	Yes	20NCM-3-50-18/575	6,219.00	9,13,16,32
	1200	365TC	94.1	83	575V	48	1.15	B	970	Yes	20NCM-3-50-12/575	9,526.00	9,13,16,32
60	3600	364TSC	93.6	92	575V	52	1.15	B	860	Yes	20NCM-3-60-36/575	8,555.00	9,13,16,32
	1800	364TC	95	88	575V	54	1.15	B	926	Yes	20NCM-3-60-18/575	7,929.00	9,13,16,32
	1200	404TC	94.5	82	575V	58	1.15	B	1127	Yes	20NCM-3-60-12/575	11,216.00	9,13,16,32
75	3600	365TSC	94.1	92	575V	65	1.15	B	933	Yes	20NCM-3-75-36/575	10,040.00	9,13,16,32
	1800	365TC	95.4	88	575V	67	1.15	B	1012	Yes	20NCM-3-75-18/575	9,519.00	9,13,16,32
	1200	405TC	94.5	82	575V	73	1.15	B	1210	Yes	20NCM-3-75-12/575	12,867.00	9,13,16,32
100	3600	405TSC	95.4	90	575V	87	1.15	B	1058	Yes	20NCM-3-100-36/575	12,389.00	9,13,16,32
	1800	405TC	95.4	91	575V	86	1.15	B	1241	Yes	20NCM-3-100-18/575	12,742.00	9,13,16,32
	1200	444TC	95	80	575V	98	1.15	B	1726	Yes	20NCM-3-100-12/575	16,645.00	9,13,16,32

Performance Data & Mounting Dimensions: 74 - 78

Motors can be modified from Footed to C-Face and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

General Information

### A-Line Series – 1-250 HP

3PH TEFC 60/50 Hz NEMA AC Foot Mounted Motors



Premium Efficient Motors

**Applications:** Ideal for a wide variety of industrial applications that require a premium efficient foot mounted motor, such as fans & blowers, pumps, conveyors, crushers, compressors, mixers and more.

#### Features

Severe & Crusher Duty Motors

- Class I, Division II Group A,B,C,D Temp Code T3C
- Inverter Duty Rated: 10:1CT & 100:1VT
- Service Factor: up to 1.25
- Design: "B"
- Protection Degree: IP55
- Enclosure: TEFC
- Motors meet NEMA premium efficiency requirements
- Dual rated for 190/380V 50 Hz
- Class "F" insulation with rise at or below Class "B"
- Motors 213T and larger suitable for wye/delta starting
- Rigid cast iron construction

- C-Face (31NCM) & D-Flange (31NDM) Available
- Designed for horizontal and vertical application
- High Starting Torque
- F1/F2 convertible
- CSA-US certified, UL Recognized, CE marked and DOE approved
- NEMA Premium<sup>®</sup> marked
- Stainless steel nameplate with connection diagram
- Efficiency tested according to IEEE112 Method B
- Warranty: 3-Years

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes <sup>(a)</sup>
1	1800	143T	86.5	78	208-230/460V	3.1-2.8/1.4	1.25	B	52	31NFM-3-1-18	432.00	22
	1200	145T	84	66	208-230/460V	3.8-3.4/1.7	1.25	B	58	31NFM-3-1-12	531.00	9,22
	900	182T	84	60	208-230/460V	4.2-3.8/1.9	1.15	B	96	31NFM-3-1-9	1,134.00	22
1.5	3600	143T	85.5	88.5	208-230/460V	4.2-3.8/1.9	1.25	B	52	31NFM-3-1.5-36	462.00	22
	1800	145T	87.5	78.5	208-230/460V	4.6-4.2/2.1	1.25	B	58	31NFM-3-1.5-18	485.00	9,22
	1200	182T	87.5	68	208-230/460V	5.3-4.8/2.4	1.25	B	97	31NFM-3-1.5-12	609.00	22
2	900	184T	84	60.5	208-230/460V	6.2-5.6/2.8	1.15	B	106	31NFM-3-1.5-9	1,396.00	9,22
	3600	145T	86.5	89	208-230/460V	5.5-5/2.5	1.25	B	60	31NFM-3-2-36	517.00	9,22
	1800	145T	87.5	78	208-230/460V	6.2-5.6/2.8	1.25	B	58	31NFM-3-2-18	522.00	9,22
3	1200	184T	88.5	73	208-230/460V	6.4-5.8/2.9	1.25	B	109	31NFM-3-2-12	711.00	9,22
	900	213T	85.5	71	208-230/460V	6.9-6.2/3.1	1.15	B	168	31NFM-3-2-9	1,626.00	23
	3600	182T	88.5	90	208-230/460V	8-7.2/3.6	1.25	B	90	31NFM-3-3-36	649.00	22
5	1800	182T	90.2	81	208-230/460V	8.6-7.8/3.9	1.25	B	93	31NFM-3-3-18	638.00	22
	1200	213T	89.5	75	208-230/460V	9.5-8.6/4.3	1.25	B	156	31NFM-3-3-12	903.00	23
	900	215T	85.5	72.5	208-230/460V	10.2-9.2/4.6	1.15	B	192	31NFM-3-3-9	2,110.00	9,23
7.5	3600	184T	90.2	90.5	208-230/460V	12.8-11.6/5.8	1.25	B	106	31NFM-3-5-36	744.00	9,22
	1800	184T	90.2	82.5	208-230/460V	14.2-12.8/6.4	1.25	B	106	31NFM-3-5-18	719.00	9,22
	1200	215T	89.5	78	208-230/460V	15.3-13.8/6.9	1.25	B	192	31NFM-3-5-12	1,214.00	9,23
10	900	254T	89.5	70	208-230/460V	16.6-15/7.5	1.15	B	290	31NFM-3-5-9	2,896.00	23
	3600	213T	90.2	88	208-230/460V	19.9-18/9	1.25	B	162	31NFM-3-7.5-36	1,056.00	23
	1800	213T	91.7	86	208-230/460V	20.1-18.2/9.1	1.25	B	168	31NFM-3-7.5-18	1,045.00	23
10	1200	254T	91.7	77	208-230/460V	22.3-20.2/10.1	1.25	B	282	31NFM-3-7.5-12	1,708.00	23
	900	256T	89.5	70.5	208-230/460V	25-22.6/11.3	1.15	B	325	31NFM-3-7.5-9	3,705.00	9,23
	3600	215T	91.7	89	208-230/460V	25.4-23/11.5	1.25	B	185	31NFM-3-10-36	1,168.00	9,23
10	1800	215T	91.7	87	208-230/460V	26.3-23.8/11.9	1.25	B	192	31NFM-3-10-18	1,216.00	9,23
	1200	256T	91.7	79	208-230/460V	29.2-26.4/13.2	1.25	B	310	31NFM-3-10-12	2,076.00	9,23
	900	284T	91	70	208-230/460V	33.2-30/15	1.15	B	445	31NFM-3-10-9	4,317.00	23

#### Performance Data & Mounting Dimensions: 79 - 86

Motors can be modified from Footed to C-Face or D-Flange ("31NDM" prefix) and vice versa.

<sup>(a)</sup> See notes on inside back cover.

## A-Line Series, NEMA AC 3PH, Foot Mounted

1-250 HP

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes <sup>(a)</sup>
15	3600	254T	91	91	208-230/460V	38.3-34.6/17.3	1.25	B	300	31NFM-3-15-36	1,740.00	23
	1800	254T	92.4	83	208-230/460V	40.9-37/18.5	1.25	B	300	31NFM-3-15-18	1,722.00	23
	1200	284T	92.4	80	208-230/460V	42.9-38.8/19.4	1.25	B	390	31NFM-3-15-12	2,741.00	23
	900	286T	91.7	73	208-230/460V	46.9-42.4/21.2	1.15	B	475	31NFM-3-15-9	5,970.00	9,23
20	3600	256T	91	91	208-230/460V	50.9-46/23	1.25	B	325	31NFM-3-20-36	2,112.00	9,23
	1800	256T	93	83.5	208-230/460V	54.2-49/24.5	1.25	B	330	31NFM-3-20-18	2,079.00	9,23
	1200	286T	92.4	81	208-230/460V	56.4-51/25.5	1.15	B	475	31NFM-3-20-12	3,576.00	9,23
	900	324T	91.7	73	208-230/460V	62.6-56.6/28.3	1.15	B	650	31NFM-3-20-9	6,898.00	16,23
25	3600	284TS	91.7	90.5	208-230/460V	63.5-57.4/28.7	1.15	B	410	31NFM-3-25-36	2,687.00	23
	1800	284T	93.6	84	208-230/460V	66.3-60/30	1.15	B	410	31NFM-3-25-18	2,541.00	23
	1200	324T	93	85	208-230/460V	66.8-60.4/30.2	1.15	B	550	31NFM-3-25-12	3,938.00	16,23
	900	326T	91.7	73	208-230/460V	78.5-71/35.5	1.15	B	716	31NFM-3-25-9	8,163.00	9,16,23
30	3600	286TS	92.4	91	208-230/460V	75.4-68.2/34.1	1.15	B	450	31NFM-3-30-36	3,047.00	9,23
	1800	286T	93.6	84	208-230/460V	79.6-72/36	1.15	B	475	31NFM-3-30-18	2,994.00	9,23
	1200	326T	93	85.5	208-230/460V	79.6-72/36	1.15	B	616	31NFM-3-30-12	4,569.00	9,16,23
	900	364T	92.4	74	208-230/460V	92-83.2/41.6	1.15	B	850	31NFM-3-30-9	9,615.00	16,23
40	3600	324TS	93	88	208-230/460V	103.3-93.4/46.7	1.15	B	630	31NFM-3-40-36	3,891.00	16,23
	1800	324T	95	84.5	208-230/460V	104.8-94.8/47.4	1.15	B	600	31NFM-3-40-18	3,834.00	16,23
	1200	364T	94.5	84	208-230/460V	106.2-96/48	1.15	B	850	31NFM-3-40-12	5,998.00	16,23
	900	365T	92.4	76	208-230/460V	119.4-108/54	1.15	B	960	31NFM-3-40-9	11,912.00	9,16,23
50	3600	326TS	93.6	88.5	208-230/460V	126.1-114/57	1.15	B	650	31NFM-3-50-36	4,675.00	9,16,23
	1800	326T	95	84.5	208-230/460V	130.5-118/59	1.15	B	716	31NFM-3-50-18	4,569.00	9,16,23
	1200	365T	94.5	84	208-230/460V	132.7-120/60	1.15	B	960	31NFM-3-50-12	6,735.00	9,16,23
	900	404T	93	76	208-230/460V	148.2-134/67	1.15	B	1402	31NFM-3-50-9	13,509.00	16,23
60	3600	364TS	93.6	89	208-230/460V	150.4-136/68	1.15	B	823	31NFM-3-60-36	6,697.00	16,23
	1800	364T	95	84	208-230/460V	158.2-143/71.5	1.15	B	836	31NFM-3-60-18	6,708.00	16,23
	1200	404T	94.5	82	208-230/460V	163.7-148/74	1.15	B	1270	31NFM-3-60-12	8,012.00	16,23
	900	404/5T	92.4	77	208-230/460V	174.8-158/79	1.15	B	1270	31NFM-3-60-9	15,488.00	9,16,23
75	3600	364/5TS	93.6	89	208-230/460V	185.8-168/84	1.15	B	823	31NFM-3-75-36	8,635.00	16,23
	1800	364/5T	95.4	84	208-230/460V	199.1-180/90	1.15	B	864	31NFM-3-75-18	8,518.00	16,23
	1200	404/5T	94.5	83	208-230/460V	200.2-181/90.5	1.15	B	1270	31NFM-3-75-12	9,630.00	9,16,23
	900	444T	93.6	77	208-230/460V	216.8-196/98	1.15	B	1810	31NFM-3-75-9	18,427.00	16,23
100	3600	404/5TS	94.1	88.5	208-230/460V	245.5-222/111	1.15	B	1170	31NFM-3-100-36	11,652.00	9,16,23
	1800	404/5T	95.4	83	208-230/460V	265.4-240/120	1.15	B	1270	31NFM-3-100-18	10,692.00	9,16,23
	1200	444T	95	80.5	208-230/460V	274.3-248/124	1.15	B	1810	31NFM-3-100-12	13,544.00	16,23
	900	444/5T	93.6	78	208-230/460V	283.1-256/128	1.15	B	1810	31NFM-3-100-9	25,416.00	9,16,23
125	3600	444TS	95	86.5	208-230/460V	320.7-290/145	1.15	B	1640	31NFM-3-125-36	15,594.00	16,23
	1800	444T	95.4	84	208-230/460V	327.4-296/148	1.15	B	1810	31NFM-3-125-18	14,314.00	16,23
	1200	444/5T	95	80.5	208-230/460V	331.8-300/150	1.15	B	1810	31NFM-3-125-12	16,491.00	9,16,23
	900	447T	94.1	78.5	208-230/460V	351.7-318/159	1.15	B	2607	31NFM-3-125-9	28,416.00	16,23
150	3600	444/5TS	95	89	208-230/460V	367.2-332/166	1.15	B	1640	31NFM-3-150-36	19,026.00	9,16,23,24
	1800	444/5T	95.8	85	208-230/460V	387.1-350/175	1.15	B	1810	31NFM-3-150-18	16,762.00	9,16,23,24
	1200	447T	95.8	83.5	208-230/460V	393.7-356/178	1.15	B	2607	31NFM-3-150-12	20,264.00	16,23,24
200	3600	447TS	95.4	89.5	460V	110	1.15	B	2150	31NFM-3-200-36	25,065.00	16,24
	1800	447T	96.2	85	460V	116	1.15	B	2607	31NFM-3-200-18	21,003.00	16,24
	1200	447/9T	95.8	84	460V	117	1.15	B	2607	31NFM-3-200-12	19,940.00	9,16,24
250	3600	447/9TS	95.8	89	460V	138	1.15	B	2150	31NFM-3-250-36	32,559.00	9,16,24
	1800	447/9T	96.2	84.5	460V	146	1.15	B	2607	31NFM-3-250-18	26,950.00	9,16,24
	1200	447/9T	95.8	83.5	460V	147	1.15	B	2607	31NFM-3-250-12	40,870.00	9,16,24

Performance Data & Mounting Dimensions: 79 - 86

Motors can be modified from Footed to C-Face or D-Flange ("31NDM" prefix) and vice versa.

<sup>(a)</sup> See notes on inside back cover.

General Information

### A-Line Series – 1-250 HP

3PH TEFC 60/50 Hz NEMA AC C-Face Motors



Premium Efficient Motors

**Applications:** Ideal for a wide variety of industrial applications that require a premium efficient foot mounted motor, such as fans & blowers, pumps, conveyors, crushers, compressors, mixers and more.

#### Features

Severe & Crusher Duty Motors

- Class I, Division II Group A,B,C,D Temp Code T3C
- Inverter Duty Rated: 10:1CT & 100:1VT
- Service Factor: up to 1.25
- Design: "B"
- Protection Degree: IP55
- Enclosure: TEFC
- Motors meet NEMA premium efficiency requirements
- Dual rated for 190/380V 50 Hz
- Class "F" insulation with rise at or below Class "B"
- Motors 213T and larger suitable for wye/delta starting
- Rigid cast iron construction

Metric IEC Motors

- C-Face (31NCM) & D-Flange (31NDM) Available
- Designed for horizontal and vertical application
- High Starting Torque
- F1/F2 convertible
- CSA-US certified, UL Recognized, CE marked and DOE approved
- NEMA Premium<sup>®</sup> marked
- Stainless steel nameplate with connection diagram
- Efficiency tested according to IEEE112 Method B
- Warranty: 3-Years

Roller Steel Motors

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	C-Face Part Number	List Price	Notes <sup>(a)</sup>
1	1800	143TC	86.5	78	208-230/460V	3.1-2.8/1.4	1.25	B	52	31NCM-3-1-18	449.00	22
	1200	145TC	84	66	208-230/460V	3.8-3.4/1.7	1.25	B	58	31NCM-3-1-12	552.00	9,22
	900	182TC	84	60	208-230/460V	4.2-3.8/1.9	1.15	B	96	31NCM-3-1-9	1,245.00	22
1.5	3600	143TC	85.5	88.5	208-230/460V	4.2-3.8/1.9	1.25	B	52	31NCM-3-1.5-36	480.00	22
	1800	145TC	87.5	78.5	208-230/460V	4.6-4.2/2.1	1.25	B	58	31NCM-3-1.5-18	503.00	9,22
	1200	182TC	87.5	68	208-230/460V	5.3-4.8/2.4	1.25	B	97	31NCM-3-1.5-12	634.00	22
2	900	184TC	84	60.5	208-230/460V	6.2-5.6/2.8	1.15	B	106	31NCM-3-1.5-9	1,522.00	9,22
	3600	145TC	86.5	89	208-230/460V	5.5-5/2.5	1.25	B	60	31NCM-3-2-36	537.00	9,22
	1800	145TC	87.5	78	208-230/460V	6.2-5.6/2.8	1.25	B	58	31NCM-3-2-18	542.00	9,22
3	1200	184TC	88.5	73	208-230/460V	6.4-5.8/2.9	1.25	B	109	31NCM-3-2-12	740.00	9,22
	900	213TC	85.5	71	208-230/460V	6.9-6.2/3.1	1.15	B	168	31NCM-3-2-9	1,773.00	23
	3600	182TC	88.5	90	208-230/460V	8-7.2/3.6	1.25	B	90	31NCM-3-3-36	675.00	22
5	1800	182TC	90.2	81	208-230/460V	8.6-7.8/3.9	1.25	B	93	31NCM-3-3-18	663.00	22
	1200	213TC	89.5	75	208-230/460V	9.5-8.6/4.3	1.25	B	156	31NCM-3-3-12	939.00	23
	900	215TC	85.5	72.5	208-230/460V	10.2-9.2/4.6	1.15	B	192	31NCM-3-3-9	2,300.00	9,23
7.5	3600	184TC	90.2	90.5	208-230/460V	12.8-11.6/5.8	1.25	B	106	31NCM-3-5-36	773.00	9,22
	1800	184TC	90.2	82.5	208-230/460V	14.2-12.8/6.4	1.25	B	106	31NCM-3-5-18	747.00	9,22
	1200	215TC	89.5	78	208-230/460V	15.3-13.8/6.9	1.25	B	192	31NCM-3-5-12	1,263.00	9,23
10	900	254TC	89.5	70	208-230/460V	16.6-15/7.5	1.15	B	290	31NCM-3-5-9	3,158.00	23
	3600	213TC	90.2	88	208-230/460V	19.9-18/9	1.25	B	162	31NCM-3-7.5-36	1,098.00	23
	1800	213TC	91.7	86	208-230/460V	20.1-18.2/9.1	1.25	B	168	31NCM-3-7.5-18	1,086.00	23
15	1200	254TC	91.7	77	208-230/460V	22.3-20.2/10.1	1.25	B	282	31NCM-3-7.5-12	1,776.00	23
	900	256TC	89.5	70.5	208-230/460V	25-22.6/11.3	1.15	B	325	31NCM-3-7.5-9	4,039.00	9,23
	3600	215TC	91.7	89	208-230/460V	25.4-23/11.5	1.25	B	185	31NCM-3-10-36	1,214.00	9,23
20	1800	215TC	91.7	87	208-230/460V	26.3-23.8/11.9	1.25	B	192	31NCM-3-10-18	1,265.00	9,23
	1200	256TC	91.7	79	208-230/460V	29.2-26.4/13.2	1.25	B	310	31NCM-3-10-12	2,159.00	9,23
	900	284TC	91	70	208-230/460V	33.2-30/15	1.15	B	445	31NCM-3-10-9	4,706.00	23

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### Performance Data & Mounting Dimensions: 79 - 86

Motors can be modified from Footed to C-Face or D-Flange ("31NDM" prefix) and vice versa.

<sup>(a)</sup> See notes on inside back cover.



A-Line Series, NEMA AC 3PH, C-Face

1-250 HP

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	C-Face Part Number	List Price	Notes <sup>(a)</sup>
15	3600	254TC	91	91	208-230/460V	38.3-34.6/17.3	1.25	B	300	31NCM-3-15-36	1,810.00	23
	1800	254TC	92.4	83	208-230/460V	40.9-37/18.5	1.25	B	300	31NCM-3-15-18	1,791.00	23
	1200	284TC	92.4	80	208-230/460V	42.9-38.8/19.4	1.25	B	390	31NCM-3-15-12	2,850.00	23
	900	286TC	91.7	73	208-230/460V	46.9-42.4/21.2	1.15	B	475	31NCM-3-15-9	6,507.00	9,23
20	3600	256TC	91	91	208-230/460V	50.9-46/23	1.25	B	325	31NCM-3-20-36	2,196.00	9,23
	1800	256TC	93	83.5	208-230/460V	54.2-49/24.5	1.25	B	330	31NCM-3-20-18	2,162.00	9,23
	1200	286TC	92.4	81	208-230/460V	56.4-51/25.5	1.15	B	475	31NCM-3-20-12	3,719.00	9,23
	900	324TC	91.7	73	208-230/460V	62.6-56.6/28.3	1.15	B	650	31NCM-3-20-9	7,520.00	16,23
25	3600	284TSC	91.7	90.5	208-230/460V	63.5-57.4/28.7	1.15	B	410	31NCM-3-25-36	2,795.00	23
	1800	284TC	93.6	84	208-230/460V	66.3-60/30	1.15	B	410	31NCM-3-25-18	2,642.00	23
	1200	324TC	93	85	208-230/460V	66.8-60.4/30.2	1.15	B	550	31NCM-3-25-12	4,095.00	16,23
	900	326TC	91.7	73	208-230/460V	78.5-71/35.5	1.15	B	716	31NCM-3-25-9	8,898.00	9,16,23
30	3600	286TSC	92.4	91	208-230/460V	75.4-68.2/34.1	1.15	B	450	31NCM-3-30-36	3,168.00	9,23
	1800	286TC	93.6	84	208-230/460V	79.6-72/36	1.15	B	475	31NCM-3-30-18	3,114.00	9,23
	1200	326TC	93	85.5	208-230/460V	79.6-72/36	1.15	B	616	31NCM-3-30-12	4,752.00	9,16,23
	900	364TC	92.4	74	208-230/460V	92-83.2/41.6	1.15	B	850	31NCM-3-30-9	10,482.00	16,23
40	3600	324TSC	93	88	208-230/460V	103.3-93.4/46.7	1.15	B	630	31NCM-3-40-36	4,046.00	16,23
	1800	324TC	95	84.5	208-230/460V	104.8-94.8/47.4	1.15	B	600	31NCM-3-40-18	3,987.00	16,23
	1200	364TC	94.5	84	208-230/460V	106.2-96/48	1.15	B	850	31NCM-3-40-12	6,237.00	16,23
	900	365TC	92.4	76	208-230/460V	119.4-108/54	1.15	B	960	31NCM-3-40-9	12,984.00	9,16,23
50	3600	326TSC	93.6	88.5	208-230/460V	126.1-114/57	1.15	B	650	31NCM-3-50-36	4,862.00	9,16,23
	1800	326TC	95	84.5	208-230/460V	130.5-118/59	1.15	B	716	31NCM-3-50-18	4,752.00	9,16,23
	1200	365TC	94.5	84	208-230/460V	132.7-120/60	1.15	B	960	31NCM-3-50-12	7,004.00	9,16,23
	900	404TC	93	76	208-230/460V	148.2-134/67	1.15	B	1402	31NCM-3-50-9	15,476.00	16,23
60	3600	364TSC	93.6	89	208-230/460V	150.4-136/68	1.15	B	823	31NCM-3-60-36	6,898.00	16,23
	1800	364TC	95	84	208-230/460V	158.2-143/71.5	1.15	B	836	31NCM-3-60-18	6,908.00	16,23
	1200	404TC	94.5	82	208-230/460V	163.7-148/74	1.15	B	1270	31NCM-3-60-12	8,252.00	16,23
	900	404/STC	92.4	77	208-230/460V	174.8-158/79	1.15	B	1270	31NCM-3-60-9	16,910.00	9,16,23
75	3600	364/STSC	93.6	89	208-230/460V	185.8-168/84	1.15	B	823	31NCM-3-75-36	8,894.00	16,23
	1800	364/STC	95.4	84	208-230/460V	199.1-180/90	1.15	B	864	31NCM-3-75-18	8,774.00	16,23
	1200	404/STC	94.5	83	208-230/460V	200.2-181/90.5	1.15	B	1270	31NCM-3-75-12	9,919.00	9,16,23
	900	444TC	93.6	77	208-230/460V	216.8-196/98	1.15	B	1810	31NCM-3-75-9	22,553.00	16,23
100	3600	404/STSC	94.1	88.5	208-230/460V	245.5-222/111	1.15	B	1170	31NCM-3-100-36	12,002.00	9,16,23
	1800	404/STC	95.4	83	208-230/460V	265.4-240/120	1.15	B	1270	31NCM-3-100-18	11,013.00	9,16,23
	1200	444TC	95	80.5	208-230/460V	274.3-248/124	1.15	B	1810	31NCM-3-100-12	13,951.00	16,23
	900	444/STC	93.6	78	208-230/460V	283.1-256/128	1.15	B	1810	31NCM-3-100-9	28,440.00	9,16,23
125	3600	444TSC	95	86.5	208-230/460V	320.7-290/145	1.15	B	1640	31NCM-3-125-36	16,062.00	16,23
	1800	444TC	95.4	84	208-230/460V	327.4-296/148	1.15	B	1810	31NCM-3-125-18	14,744.00	16,23
	1200	444/STC	95	80.5	208-230/460V	331.8-300/150	1.15	B	1810	31NCM-3-125-12	16,985.00	9,16,23
	900	447TC	94.1	78.5	208-230/460V	351.7-318/159	1.15	B	2607	31NCM-3-125-9	32,118.00	16,23
150	3600	444/STSC	95	89	208-230/460V	367.2-332/166	1.15	B	1640	31NCM-3-150-36	19,598.00	9,16,23,24
	1800	444/STC	95.8	85	208-230/460V	387.1-350/175	1.15	B	1810	31NCM-3-150-18	17,265.00	9,16,23,24
	1200	447TC	95.8	83.5	208-230/460V	393.7-356/178	1.15	B	2607	31NCM-3-150-12	20,872.00	16,23,24
200	3600	447TSC	95.4	89.5	460V	110	1.15	B	2150	31NCM-3-200-36	25,817.00	16,24
	1800	447TC	96.2	85	460V	116	1.15	B	2607	31NCM-3-200-18	21,633.00	16,24
	1200	447/9TC	95.8	84	460V	117	1.15	B	2607	31NCM-3-200-12	28,353.00	9,16,24
250	3600	447/9TSC	95.8	89	460V	138	1.15	B	2150	31NCM-3-250-36	33,535.00	9,16,24
	1800	447/9TC	96.2	84.5	460V	146	1.15	B	2607	31NCM-3-250-18	27,758.00	9,16,24
	1200	447/9TC	95.8	83.5	460V	147	1.15	B	2607	31NCM-3-250-12	44,549.00	9,16,24

**Performance Data & Mounting Dimensions:** 79 - 86  
 Motors can be modified from Footed to C-Face or D-Flange ("31NDM" prefix) and vice versa.  
<sup>(a)</sup> See notes on inside back cover.

General Information

### Severe Duty – 1-250 HP

3PH TEFC 60/50 Hz NEMA AC Foot Mounted Motors

Premium Efficient Motors

**Applications:** Ideal for hard-wearing applications in petrochemical plants, refineries, tropical climates, mines, foundries, pulp and paper mills, waste management facilities, quarries and processing factories.



Severe & Crusher Duty Motors

#### Features

- Ultra-strong oversized ball bearings on both ends for extra strength and durability
- High starting torque
- High service factor up to 1.4
- IP55 water-tight and dust-proof TEFC enclosure
- Moisture resistant tropicalization
- High temperature protected Class H wiring
- Cast iron construction including junction box, end brackets and fan guard (double gauge reinforced steel fan guard 320T and up for reduced weight and increased air flow)
- Designed for horizontal and vertical application
- 575V and other ratings available upon request
- Vacuum pressure impregnation for the most dependable fail safe electrical performance
- Low vibration level (below 0.08 in/sec)
- Inverter duty rated 10:1CT and 20:1VT
- V- Ring up to 286T, **Labyrinth seal 324T and up**
- High temperature grease
- Motors 213T and larger suitable for wye/delta starting
- CSA-US certified, DOE approved, CE and NEMA Premium marked
- Warranty: 3-Years

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	Footed Part Number	List Price	Notes (a)
1	1800	143T	85.5	78	208-230/460V	3.1-2.8/1.4	1.4	B	53	–	60NFS-3-1-18	774.00	4,22
	1200	145T	82.5	68	208-230/460V	3.8-3.4/1.7	1.4	B	55	–	60NFS-3-1-12	868.00	4,22
1.5	3600	143T	84.5	78	208-230/460V	4.6-4.2/2.1	1.4	B	56	–	60NFS-3-1.5-36	782.00	4,22
	1800	145T	87	79	208-230/460V	4.4-4/2	1.4	B	57	–	60NFS-3-1.5-18	825.00	4,22
2	1200	182T	87.5	68	208-230/460V	5.3-4.8/2.4	1.4	B	85	–	60NFS-3-1.5-12	952.00	4,9,22
	3600	145T	86	82	208-230/460V	6-5.4/2.7	1.4	B	57	–	60NFS-3-2-36	826.00	4,22
	1800	145T	86.5	83	208-230/460V	5.8-5.2/2.6	1.4	B	59	–	60NFS-3-2-18	881.00	4,22
	1200	184T	88.5	72	208-230/460V	6.6-6/3	1.4	B	98	–	60NFS-3-2-12	990.00	4,9,22
3	3600	182T	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	–	60NFS-3-3-36	911.00	4,9,22
	1800	182T	89.5	75	208-230/460V	9.3-8.4/4.2	1.4	A	102	–	60NFS-3-3-18	895.00	4,9,22
	1200	213T	89.5	74	208-230/460V	9.3-8.4/4.2	1.4	B	205	–	60NFS-3-3-12	1,271.00	4,9,23
5	3600	184T	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	–	60NFS-3-5-36	1,059.00	4,9,22
	1800	184T	89.5	78	208-230/460V	14.8-13.4/6.7	1.3	A	108	–	60NFS-3-5-18	1,040.00	4,9,22
	1200	215T	89.5	75	208-230/460V	15.5-14/7	1.3	B	220	–	60NFS-3-5-12	1,729.00	4,9,23
7.5	3600	213T	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	–	60NFS-3-7.5-36	1,456.00	4,9,23
	1800	213T	91.7	82	208-230/460V	20.6-18.6/9.3	1.3	A	167	–	60NFS-3-7.5-18	1,453.00	4,9,23
	1200	254T	91	74	208-230/460V	23-20.8/10.4	1.3	A	321	–	60NFS-3-7.5-12	2,239.00	4,23
10	3600	215T	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	–	60NFS-3-10-36	1,670.00	4,9,23
	1800	215T	91.7	82	208-230/460V	27.6-25/12.5	1.3	A	185	–	60NFS-3-10-18	1,662.00	4,9,23
	1200	256T	91	77	208-230/460V	29.6-26.8/13.4	1.3	A	363	–	60NFS-3-10-12	2,692.00	4,23
15	3600	254T	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	–	60NFS-3-15-36	2,140.00	4,23
	1800	254T	92.4	88	208-230/460V	38.3-34.6/17.3	1.3	A	301	–	60NFS-3-15-18	2,127.00	4,23
	1200	284T	91.7	79	208-230/460V	43.1-39/19.5	1.3	A	371	–	60NFS-3-15-12	3,567.00	4,9,23
20	3600	256T	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	–	60NFS-3-20-36	2,544.00	4,23
	1800	256T	93	88	208-230/460V	50.6-45.8/22.9	1.2	A	390	–	60NFS-3-20-18	2,499.00	4,23
	1200	286T	91.7	80	208-230/460V	56.4-51/25.5	1.2	A	421	–	60NFS-3-20-12	4,344.00	4,9,23

#### Performance Data & Mounting Dimensions: 87 - 91

Motors can be modified from Footed to C-Face and vice versa.  
230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.

(a) See notes on inside back cover.

### Severe Duty, NEMA AC 3PH, Foot Mounted

**1-250 HP**

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	Footed Part Number	List Price	Notes (a)
25	3600	284TS	92.4	86	208-230/460V	65.2-59/29.5	1.2	A	348	–	60NFS-3-25-36	3,034.00	4,9,23
	1800	284T	93.6	82	208-230/460V	67.5-61/30.5	1.2	A	397	–	60NFS-3-25-18	2,996.00	4,9,23
	1200	324T	93	80	208-230/460V	69.7-63/31.5	1.3	B	653	Yes	60NFS-3-25-12	5,972.00	9,13,16,23
30	3600	286TS	91.7	87	208-230/460V	77.8-70.4/35.2	1.2	A	390	–	60NFS-3-30-36	3,663.00	4,9,23
	1800	286T	93.6	80	208-230/460V	82.9-75/37.5	1.2	A	441	–	60NFS-3-30-18	3,643.00	4,9,23
	1200	326T	93	82	208-230/460V	81.8-74/37	1.3	B	681	Yes	60NFS-3-30-12	6,057.00	9,13,16,23
40	3600	324TS	93	92	208-230/460V	97.3-88/44	1.2	B	608	Yes	60NFS-3-40-36	6,040.00	9,13,16,23
	1800	324T	94.1	88	208-230/460V	99.5-90/45	1.3	B	690	Yes	60NFS-3-40-18	5,974.00	9,13,16,23
	1200	364T	94.1	82	208-230/460V	107.3-97/48.5	1.3	B	917	Yes	60NFS-3-40-12	7,865.00	9,13,16,23
50	3600	326TS	93	92	208-230/460V	121.6-110/55	1.2	B	655	Yes	60NFS-3-50-36	6,428.00	9,13,16,23
	1800	326T	94.5	88	208-230/460V	123.8-112/56	1.3	B	769	Yes	60NFS-3-50-18	6,387.00	9,13,16,23
	1200	365T	94.1	83	208-230/460V	132.7-120/60	1.3	B	970	Yes	60NFS-3-50-12	9,215.00	9,13,16,23
60	3600	364TS	93.6	92	208-230/460V	143.8-130/65	1.2	B	860	Yes	60NFS-3-60-36	8,326.00	9,13,16,23
	1800	364T	95	88	208-230/460V	148.2-134/67	1.2	B	926	Yes	60NFS-3-60-18	7,894.00	9,13,16,23
	1200	404T	94.5	82	208-230/460V	159.2-144/72	1.3	B	1127	Yes	60NFS-3-60-12	11,220.00	9,13,16,23
75	3600	365TS	94.1	92	208-230/460V	179.1-162/81	1.2	B	933	Yes	60NFS-3-75-36	9,880.00	9,13,16,23
	1800	365T	95.4	88	208-230/460V	185.8-168/84	1.2	B	1012	Yes	60NFS-3-75-18	9,756.00	9,13,16,23
	1200	405T	94.5	82	208-230/460V	201.3-182/91	1.2	B	1210	Yes	60NFS-3-75-12	12,734.00	9,13,16,23
100	3600	405TS	95.4	90	208-230/460V	241.1-218/109	1.2	B	1058	Yes	60NFS-3-100-36	12,569.00	9,13,16,23
	1800	405T	95.4	91	208-230/460V	238.8-216/108	1.2	B	1241	Yes	60NFS-3-100-18	12,470.00	9,13,16,23
	1200	444T	95	80	208-230/460V	272-246/123	1.2	B	1726	Yes	60NFS-3-100-12	16,114.00	9,13,16,23
125	3600	444TS	95.4	92	460V	133	1.2	B	1488	Yes	60NFS-3-125-36	17,191.00	9,13,16,21,24
	1800	444T	95.8	90	460V	136	1.2	B	1662	Yes	60NFS-3-125-18	16,391.00	9,13,16,21,24
	1200	445T	95.4	80	460V	153	1.2	B	1931	Yes	60NFS-3-125-12	18,939.00	9,13,16,21,24
150	3600	445TS	95.8	92	460V	159	1.2	B	1594	Yes	60NFS-3-150-36	19,511.00	9,13,16,21,24
	1800	445T	95.8	91	460V	161	1.2	B	1823	Yes	60NFS-3-150-18	19,313.00	9,13,16,21,24
200	3600	447TS	95.8	93	460V	210	1.2	B	2161	Yes	60NFS-3-200-36	22,905.00	9,13,16,21,24
	1800	447T	96.5	89	460V	218	1.2	B	2310	Yes	60NFS-3-200-18	22,641.00	9,13,16,21,24
250	3600	447TS	96.2	93	460V	261	1.2	B	2271	Yes	60NFS-3-250-36	26,804.00	9,13,16,21,24
	1800	447T	96.2	91	460V	267	1.2	B	2447	Yes	60NFS-3-250-18	26,187.00	9,13,16,21,24

**575V MOTORS †**

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V Footed Part Number	List Price	Notes (a)
1	1800	143T	85.5	78	575V	1.1	1.15	B	53	–	60NFS-3-1-18/575	858.00	4,33
	1200	145T	82.5	68	575V	1.4	1.15	B	55	–	60NFS-3-1-12/575	952.00	4,33
1.5	3600	143T	84.5	78	575V	1.7	1.15	B	56	–	60NFS-3-1.5-36/575	866.00	4,33
	1800	145T	87	79	575V	1.6	1.15	B	57	–	60NFS-3-1.5-18/575	909.00	4,33
	1200	182T	87.5	68	575V	1.9	1.15	B	85	–	60NFS-3-1.5-12/575	1,036.00	4,9,33
2	3600	145T	86	82	575V	2.2	1.15	B	57	–	60NFS-3-2-36/575	910.00	4,33
	1800	145T	86.5	83	575V	2.1	1.15	B	59	–	60NFS-3-2-18/575	965.00	4,33
	1200	184T	88.5	72	575V	2.4	1.15	B	98	–	60NFS-3-2-12/575	1,074.00	4,9,33
3	3600	182T	86.5	82	575V	3.2	1.15	B	76	–	60NFS-3-3-36/575	995.00	4,9,33
	1800	182T	89.5	75	575V	3.4	1.15	A	102	–	60NFS-3-3-18/575	979.00	4,9,33
	1200	213T	89.5	74	575V	3.4	1.15	B	205	–	60NFS-3-3-12/575	1,355.00	4,9,32
5	3600	184T	89	85	575V	5	1.15	A	102	–	60NFS-3-5-36/575	1,143.00	4,9,33
	1800	184T	89.5	78	575V	5.4	1.15	A	108	–	60NFS-3-5-18/575	1,124.00	4,9,33
	1200	215T	89.5	75	575V	5.6	1.15	B	220	–	60NFS-3-5-12/575	1,813.00	4,9,32

**Performance Data & Mounting Dimensions:** 87 - 91

Motors can be modified from Footed to C-Face and vice versa.

230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

### Severe Duty, NEMA AC 3PH, Foot Mounted, 575V

### 1-100 HP

575V MOTORS †													
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V Footed Part Number	List Price	Notes (a)
7.5	3600	213T	90	92	575V	6.8	1.15	A	159	–	60NFS-3-7.5-36/575	1,540.00	4,9,32
	1800	213T	91.7	82	575V	7.4	1.15	A	167	–	60NFS-3-7.5-18/575	1,537.00	4,9,32
	1200	254T	91	74	575V	8.3	1.15	A	321	–	60NFS-3-7.5-12/575	2,323.00	4,32
10	3600	215T	90.2	91	575V	9.1	1.15	A	173	–	60NFS-3-10-36/575	1,754.00	4,9,32
	1800	215T	91.7	82	575V	10	1.15	A	185	–	60NFS-3-10-18/575	1,746.00	4,9,32
	1200	256T	91	77	575V	10.7	1.15	A	363	–	60NFS-3-10-12/575	2,776.00	4,32
15	3600	254T	91.7	87	575V	14.1	1.15	B	258	–	60NFS-3-15-36/575	2,224.00	4,32
	1800	254T	92.4	88	575V	13.8	1.15	A	301	–	60NFS-3-15-18/575	2,211.00	4,32
	1200	284T	91.7	79	575V	15.6	1.15	A	371	–	60NFS-3-15-12/575	3,651.00	4,9,32
20	3600	256T	92	89	575V	18.3	1.15	B	306	–	60NFS-3-20-36/575	2,628.00	4,32
	1800	256T	93	88	575V	18.3	1.15	A	390	–	60NFS-3-20-18/575	2,583.00	4,32
	1200	286T	91.7	80	575V	20.4	1.15	A	421	–	60NFS-3-20-12/575	4,428.00	4,9,32
25	3600	284TS	92.4	86	575V	23.6	1.15	A	348	–	60NFS-3-25-36/575	3,118.00	4,9,32
	1800	284T	93.6	82	575V	24.4	1.15	A	397	–	60NFS-3-25-18/575	3,080.00	4,9,32
	1200	324T	93	80	575V	25	1.15	B	653	Yes	60NFS-3-25-12/575	6,056.00	9,13,16,32
30	3600	286TS	91.7	87	575V	28.2	1.15	A	390	–	60NFS-3-30-36/575	3,747.00	4,9,32
	1800	286T	93.6	80	575V	30	1.15	A	441	–	60NFS-3-30-18/575	3,727.00	4,9,32
	1200	326T	93	82	575V	30	1.15	B	681	Yes	60NFS-3-30-12/575	6,141.00	9,13,16,32
40	3600	324TS	93	92	575V	35	1.15	B	608	Yes	60NFS-3-40-36/575	6,124.00	9,13,16,32
	1800	324T	94.1	88	575V	36	1.15	B	690	Yes	60NFS-3-40-18/575	6,058.00	9,13,16,32
	1200	364T	94.1	82	575V	39	1.15	B	917	Yes	60NFS-3-40-12/575	7,949.00	9,13,16,32
50	3600	326TS	93	92	575V	44	1.15	B	655	Yes	60NFS-3-50-36/575	6,512.00	9,13,16,32
	1800	326T	94.5	88	575V	45	1.15	B	769	Yes	60NFS-3-50-18/575	6,471.00	9,13,16,32
	1200	365T	94.1	83	575V	48	1.15	B	970	Yes	60NFS-3-50-12/575	9,299.00	9,13,16,32
60	3600	364TS	93.6	92	575V	52	1.15	B	860	Yes	60NFS-3-60-36/575	8,410.00	9,13,16,32
	1800	364T	95	88	575V	54	1.15	B	926	Yes	60NFS-3-60-18/575	7,978.00	9,13,16,32
	1200	404T	94.5	82	575V	58	1.15	B	1127	Yes	60NFS-3-60-12/575	11,304.00	9,13,16,32
75	3600	365TS	94.1	92	575V	65	1.15	B	933	Yes	60NFS-3-75-36/575	9,964.00	9,13,16,32
	1800	365T	95.4	88	575V	67	1.15	B	1012	Yes	60NFS-3-75-18/575	9,840.00	9,13,16,32
	1200	405T	94.5	82	575V	73	1.15	B	1210	Yes	60NFS-3-75-12/575	12,818.00	9,13,16,32
100	3600	405TS	95.4	90	575V	87	1.15	B	1058	Yes	60NFS-3-100-36/575	12,653.00	9,13,16,32
	1800	405T	95.4	91	575V	86	1.15	B	1241	Yes	60NFS-3-100-18/575	12,554.00	9,13,16,32
	1200	444T	95	80	575V	98	1.15	B	1726	Yes	60NFS-3-100-12/575	16,198.00	9,13,16,32

#### Performance Data & Mounting Dimensions: 87 - 91

Motors can be modified from Footed to C-Face and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

## Severe Duty – 1-250 HP

3PH TEFC 60/50 Hz NEMA AC C-Face Motors

**Applications:** Ideal for hard-wearing applications in petrochemical plants, refineries, tropical climates, mines, foundries, pulp and paper mills, waste management facilities, quarries and processing factories.



### Features

- Ultra-strong oversized ball bearings on both ends for extra strength and durability
- High starting torque
- High service factor up to 1.4
- IP55 water-tight and dust-proof TEFC enclosure
- Moisture resistant tropicalization
- High temperature protected Class H wiring
- Cast iron construction including junction box, end brackets and fan guard (double gauge reinforced steel fan guard 320T and up for reduced weight and increased air flow)
- Designed for horizontal and vertical application
- 575V and other ratings available upon request
- Vacuum pressure impregnation for the most dependable failsafe electrical performance
- Low vibration level (below 0.08 in/sec)
- Inverter duty rated 10:1CT and 20:1VT
- V- Ring up to 286T, **Labyrinth seal 324T and up**
- High temperature grease
- Motors 213T and larger suitable for wye/delta starting
- CSA-US certified, DOE approved, CE and NEMA Premium marked
- Warranty: 3-Years

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	C-Face Part Number	List Price	Notes (a)
1	1800	143TC	85.5	78	208-230/460V	3.1-2.8/1.4	1.4	B	53	–	60NCS-3-1-18	845.00	4,22
	1200	145TC	82.5	68	208-230/460V	3.8-3.4/1.7	1.4	B	55	–	60NCS-3-1-12	947.00	4,22
	3600	143TC	84.5	78	208-230/460V	4.6-4.2/2.1	1.4	B	56	–	60NCS-3-1.5-36	852.00	4,22
1.5	1800	145TC	87	79	208-230/460V	4.4-4/2	1.4	B	57	–	60NCS-3-1.5-18	899.00	4,22
	1200	182TC	87.5	68	208-230/460V	5.3-4.8/2.4	1.4	B	85	–	60NCS-3-1.5-12	1,038.00	4,9,22
2	3600	145TC	86	82	208-230/460V	6-5.4/2.7	1.4	B	57	–	60NCS-3-2-36	900.00	4,22
	1800	145TC	86.5	83	208-230/460V	5.8-5.2/2.6	1.4	B	59	–	60NCS-3-2-18	961.00	4,22
	1200	184TC	88.5	72	208-230/460V	6.6-6/3	1.4	B	98	–	60NCS-3-2-12	1,079.00	4,9,22
3	3600	182TC	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	–	60NCS-3-3-36	994.00	4,9,22
	1800	182TC	89.5	75	208-230/460V	9.3-8.4/4.2	1.4	A	102	–	60NCS-3-3-18	976.00	4,9,22
	1200	213TC	89.5	74	208-230/460V	9.3-8.4/4.2	1.4	B	205	–	60NCS-3-3-12	1,385.00	4,9,23
5	3600	184TC	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	–	60NCS-3-5-36	1,154.00	4,9,22
	1800	184TC	89.5	78	208-230/460V	14.8-13.4/6.7	1.3	A	108	–	60NCS-3-5-18	1,134.00	4,9,22
	1200	215TC	89.5	75	208-230/460V	15.5-14/7	1.3	B	220	–	60NCS-3-5-12	1,885.00	4,9,23
7.5	3600	213TC	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	–	60NCS-3-7.5-36	1,587.00	4,9,23
	1800	213TC	91.7	82	208-230/460V	20.6-18.6/9.3	1.3	A	167	–	60NCS-3-7.5-18	1,584.00	4,9,23
	1200	254TC	91	74	208-230/460V	23-20.8/10.4	1.3	A	321	–	60NCS-3-7.5-12	2,441.00	4,23
10	3600	215TC	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	–	60NCS-3-10-36	1,821.00	4,9,23
	1800	215TC	91.7	82	208-230/460V	27.6-25/12.5	1.3	A	185	–	60NCS-3-10-18	1,812.00	4,9,23
	1200	256TC	91	77	208-230/460V	29.6-26.8/13.4	1.3	A	363	–	60NCS-3-10-12	2,934.00	4,23
15	3600	254TC	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	–	60NCS-3-15-36	2,334.00	4,23
	1800	254TC	92.4	88	208-230/460V	38.3-34.6/17.3	1.3	A	301	–	60NCS-3-15-18	2,319.00	4,23
	1200	284TC	91.7	79	208-230/460V	43.1-39/19.5	1.3	A	371	–	60NCS-3-15-12	3,889.00	4,9,23
20	3600	256TC	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	–	60NCS-3-20-36	2,772.00	4,23
	1800	256TC	93	88	208-230/460V	50.6-45.8/22.9	1.2	A	390	–	60NCS-3-20-18	2,725.00	4,23
	1200	286TC	91.7	80	208-230/460V	56.4-51/25.5	1.2	A	421	–	60NCS-3-20-12	4,736.00	4,9,23

**Performance Data & Mounting Dimensions:** 87 - 91  
 Motors can be modified from Footed to C-Face and vice versa.  
 230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.  
 (a) See notes on inside back cover.

### Severe Duty, NEMA AC 3PH, C-Face

### 1-250 HP

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	C-Face Part Number	List Price	Notes <sup>(a)</sup>
25	3600	284TSC	92.4	86	208-230/460V	65.2-59/29.5	1.2	A	348	—	60NCS-3-25-36	3,308.00	4,9,23
	1800	284TC	93.6	82	208-230/460V	67.5-61/30.5	1.2	A	397	—	60NCS-3-25-18	3,266.00	4,9,23
	1200	324TC	93	80	208-230/460V	69.7-63/31.5	1.3	B	653	Yes	60NCS-3-25-12	6,509.00	9,13,16,23
30	3600	286TSC	91.7	87	208-230/460V	77.8-70.4/35.2	1.2	A	390	—	60NCS-3-30-36	3,993.00	4,9,23
	1800	286TC	93.6	80	208-230/460V	82.9-75/37.5	1.2	A	441	—	60NCS-3-30-18	3,972.00	4,9,23
	1200	326TC	93	82	208-230/460V	81.8-74/37	1.3	B	681	Yes	60NCS-3-30-12	6,603.00	9,13,16,23
40	3600	324TSC	93	92	208-230/460V	97.3-88/44	1.2	B	608	Yes	60NCS-3-40-36	6,584.00	9,13,16,23
	1800	324TC	94.1	88	208-230/460V	99.5-90/45	1.3	B	690	Yes	60NCS-3-40-18	6,513.00	9,13,16,23
	1200	364TC	94.1	82	208-230/460V	107.3-97/48.5	1.3	B	917	Yes	60NCS-3-40-12	8,574.00	9,13,16,23
50	3600	326TSC	93	92	208-230/460V	121.6-110/55	1.2	B	655	Yes	60NCS-3-50-36	7,006.00	9,13,16,23
	1800	326TC	94.5	88	208-230/460V	123.8-112/56	1.3	B	769	Yes	60NCS-3-50-18	6,962.00	9,13,16,23
	1200	365TC	94.1	83	208-230/460V	132.7-120/60	1.3	B	970	Yes	60NCS-3-50-12	10,045.00	9,13,16,23
60	3600	364TSC	93.6	92	208-230/460V	143.8-130/65	1.2	B	860	Yes	60NCS-3-60-36	9,076.00	9,13,16,23
	1800	364TC	95	88	208-230/460V	148.2-134/67	1.2	B	926	Yes	60NCS-3-60-18	8,605.00	9,13,16,23
	1200	404TC	94.5	82	208-230/460V	159.2-144/72	1.3	B	1127	Yes	60NCS-3-60-12	12,230.00	9,13,16,23
75	3600	365TSC	94.1	92	208-230/460V	179.1-162/81	1.2	B	933	Yes	60NCS-3-75-36	10,769.00	9,13,16,23
	1800	365TC	95.4	88	208-230/460V	185.8-168/84	1.2	B	1012	Yes	60NCS-3-75-18	10,635.00	9,13,16,23
	1200	405TC	94.5	82	208-230/460V	201.3-182/91	1.2	B	1210	Yes	60NCS-3-75-12	13,880.00	9,13,16,23
100	3600	405TSC	95.4	90	208-230/460V	241.1-218/109	1.2	B	1058	Yes	60NCS-3-100-36	13,701.00	9,13,16,23
	1800	405TC	95.4	91	208-230/460V	238.8-216/108	1.2	B	1241	Yes	60NCS-3-100-18	13,593.00	9,13,16,23
	1200	444TC	95	80	208-230/460V	272-246/123	1.2	B	1726	Yes	60NCS-3-100-12	17,565.00	9,13,16,23
125	3600	444TSC	95.4	92	460V	133	1.2	B	1488	Yes	60NCS-3-125-36	18,739.00	9,13,16,21,24
	1800	444TC	95.8	90	460V	136	1.2	B	1662	Yes	60NCS-3-125-18	17,866.00	9,13,16,21,24
	1200	445TC	95.4	80	460V	153	1.2	B	1931	Yes	60NCS-3-125-12	20,645.00	9,13,16,21,24
150	3600	445TSC	95.8	92	460V	159	1.2	B	1594	Yes	60NCS-3-150-36	21,267.00	9,13,16,21,24
	1800	445TC	95.8	91	460V	161	1.2	B	1823	Yes	60NCS-3-150-18	21,052.00	9,13,16,21,24
200	3600	447TSC	95.8	93	460V	210	1.2	B	2161	Yes	60NCS-3-200-36	24,967.00	9,13,16,21,24
	1800	447TC	96.5	89	460V	218	1.2	B	2310	Yes	60NCS-3-200-18	24,679.00	9,13,16,21,24
250	3600	447TSC	96.2	93	460V	261	1.2	B	2271	Yes	60NCS-3-250-36	29,217.00	9,13,16,21,24
	1800	447TC	96.2	91	460V	267	1.2	B	2447	Yes	60NCS-3-250-18	28,545.00	9,13,16,21,24
575V MOTORS †													
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V C-Face Part Number	List Price	Notes <sup>(a)</sup>
1	1800	143TC	85.5	78	575V	1.1	1.15	B	53	—	60NCS-3-1-18/575	929.00	4,33
	1200	145TC	82.5	68	575V	1.4	1.15	B	55	—	60NCS-3-1-12/575	1,031.00	4,33
1.5	3600	143TC	84.5	78	575V	1.7	1.15	B	56	—	60NCS-3-1.5-36/575	936.00	4,33
	1800	145TC	87	79	575V	1.6	1.15	B	57	—	60NCS-3-1.5-18/575	983.00	4,33
2	1200	182TC	87.5	68	575V	1.9	1.15	B	85	—	60NCS-3-1.5-12/575	1,122.00	4,9,33
	3600	145TC	86	82	575V	2.2	1.15	B	57	—	60NCS-3-2-36/575	984.00	4,33
	1800	145TC	86.5	83	575V	2.1	1.15	B	59	—	60NCS-3-2-18/575	1,045.00	4,33
3	1200	184TC	88.5	72	575V	2.4	1.15	B	98	—	60NCS-3-2-12/575	1,163.00	4,9,33
	3600	182TC	86.5	82	575V	3.2	1.15	B	76	—	60NCS-3-3-36/575	1,078.00	4,9,33
5	1800	182TC	89.5	75	575V	3.4	1.15	A	102	—	60NCS-3-3-18/575	1,060.00	4,9,33
	1200	213TC	89.5	74	575V	3.4	1.15	B	205	—	60NCS-3-3-12/575	1,469.00	4,9,32
5	3600	184TC	89	85	575V	5	1.15	A	102	—	60NCS-3-5-36/575	1,238.00	4,9,33
	1800	184TC	89.5	78	575V	5.4	1.15	A	108	—	60NCS-3-5-18/575	1,218.00	4,9,33
1200	215TC	89.5	75	575V	5.6	1.15	B	220	—	60NCS-3-5-12/575	1,969.00	4,9,32	

#### Performance Data & Mounting Dimensions: 87 - 91

Motors can be modified from Footed to C-Face and vice versa.  
230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

<sup>(a)</sup> See notes on inside back cover.

Severe Duty, NEMA AC 3PH, C-Face, 575V

1-100 HP

575V MOTORS †													
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V C-Face Part Number	List Price	Notes (a)
7.5	3600	213TC	90	92	575V	6.8	1.15	A	159	–	60NCS-3-7.5-36/575	1,671.00	4,9,32
	1800	213TC	91.7	82	575V	7.4	1.15	A	167	–	60NCS-3-7.5-18/575	1,668.00	4,9,32
	1200	254TC	91	74	575V	8.3	1.15	A	321	–	60NCS-3-7.5-12/575	2,525.00	4,32
10	3600	215TC	90.2	91	575V	9.1	1.15	A	173	–	60NCS-3-10-36/575	1,905.00	4,9,32
	1800	215TC	91.7	82	575V	10	1.15	A	185	–	60NCS-3-10-18/575	1,896.00	4,9,32
	1200	256TC	91	77	575V	10.7	1.15	A	363	–	60NCS-3-10-12/575	3,018.00	4,32
15	3600	254TC	91.7	87	575V	14.1	1.15	B	258	–	60NCS-3-15-36/575	2,418.00	4,32
	1800	254TC	92.4	88	575V	13.8	1.15	A	301	–	60NCS-3-15-18/575	2,403.00	4,32
	1200	284TC	91.7	79	575V	15.6	1.15	A	371	–	60NCS-3-15-12/575	3,973.00	4,9,32
20	3600	256TC	92	89	575V	18.3	1.15	B	306	–	60NCS-3-20-36/575	2,856.00	4,32
	1800	256TC	93	88	575V	18.3	1.15	A	390	–	60NCS-3-20-18/575	2,809.00	4,32
	1200	286TC	91.7	80	575V	20.4	1.15	A	421	–	60NCS-3-20-12/575	4,820.00	4,9,32
25	3600	284TSC	92.4	86	575V	23.6	1.15	A	348	–	60NCS-3-25-36/575	3,392.00	4,9,32
	1800	284TC	93.6	82	575V	24.4	1.15	A	397	–	60NCS-3-25-18/575	3,350.00	4,9,32
	1200	324TC	93	80	575V	25	1.15	B	653	Yes	60NCS-3-25-12/575	6,593.00	9,13,16,32
30	3600	286TSC	91.7	87	575V	28.2	1.15	A	390	–	60NCS-3-30-36/575	4,077.00	4,9,32
	1800	286TC	93.6	80	575V	30	1.15	A	441	–	60NCS-3-30-18/575	4,056.00	4,9,32
	1200	326TC	93	82	575V	30	1.15	B	681	Yes	60NCS-3-30-12/575	6,687.00	9,13,16,32
40	3600	324TSC	93	92	575V	35	1.15	B	608	Yes	60NCS-3-40-36/575	6,668.00	9,13,16,32
	1800	324TC	94.1	88	575V	36	1.15	B	690	Yes	60NCS-3-40-18/575	6,597.00	9,13,16,32
	1200	364TC	94.1	82	575V	39	1.15	B	917	Yes	60NCS-3-40-12/575	8,658.00	9,13,16,32
50	3600	326TSC	93	92	575V	44	1.15	B	655	Yes	60NCS-3-50-36/575	7,090.00	9,13,16,32
	1800	326TC	94.5	88	575V	45	1.15	B	769	Yes	60NCS-3-50-18/575	7,046.00	9,13,16,32
	1200	365TC	94.1	83	575V	48	1.15	B	970	Yes	60NCS-3-50-12/575	10,129.00	9,13,16,32
60	3600	364TSC	93.6	92	575V	52	1.15	B	860	Yes	60NCS-3-60-36/575	9,160.00	9,13,16,32
	1800	364TC	95	88	575V	54	1.15	B	926	Yes	60NCS-3-60-18/575	8,689.00	9,13,16,32
	1200	404TC	94.5	82	575V	58	1.15	B	1127	Yes	60NCS-3-60-12/575	12,314.00	9,13,16,32
75	3600	365TSC	94.1	92	575V	65	1.15	B	933	Yes	60NCS-3-75-36/575	10,853.00	9,13,16,32
	1800	365TC	95.4	88	575V	67	1.15	B	1012	Yes	60NCS-3-75-18/575	10,719.00	9,13,16,32
	1200	405TC	94.5	82	575V	73	1.15	B	1210	Yes	60NCS-3-75-12/575	13,964.00	9,13,16,32
100	3600	405TSC	95.4	90	575V	87	1.15	B	1058	Yes	60NCS-3-100-36/575	13,785.00	9,13,16,32
	1800	405TC	95.4	91	575V	86	1.15	B	1241	Yes	60NCS-3-100-18/575	13,677.00	9,13,16,32
	1200	444TC	95	80	575V	98	1.15	B	1726	Yes	60NCS-3-100-12/575	17,649.00	9,13,16,32

Performance Data & Mounting Dimensions: 87 - 91

Motors can be modified from Footed to C-Face and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

General Information

### Crusher Duty – 250-600 HP

3PH TEFC 60/50 Hz NEMA AC Foot Mounted Motors



Premium Efficient Motors

**Applications:** Ideal for mining, quarry and other aggregate operations which require a durable, robust construction and unshakable crusher performance for continuous operation for years to come.

Severe & Crusher Duty Motors

#### Features

- Inverter Duty Rated: 5:1CT & 10:1VT
- Service Factor: up to 1.15
- Design: High Starting Torque
- Protection Degree: IP55
- Enclosure: TEFC
- VPI process applied for best electrical performance
- Dual rated for 380V 50 Hz at lower HP output
- Double delta connection (12 leads)
- Roller bearing on DE side for belt drive applications
- Regreasable bearings
- 4140 equivalent steel shaft
- Unibody design
- Class "F" insulation with Class "B" rise
- Large junction box
- Suitable for wye/delta starting and part winding starting
- Designed for horizontal applications
- Rigid 200 grade cast iron frame and brackets
- F1 mounting position
- CSA-US certified and CE marked
- Warranty: 3-Years

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes <sup>(a)</sup>
250	1200	449T	95.0	81	460V	304	1.15	C	2645	40NFC-3-250-12	32,789.00	4,35
	1800	449T	95.4	87	460V	338	1.15	C	2665	40NFC-3-300-18	30,567.00	4,35
300	1200	449T	95.0	81	460V	365	1.15	C	2900	40NFC-3-300-12	33,789.00	4,35
	1800	449T	95.4	87	460V	395	1.15	C	2830	40NFC-3-350-18	32,013.00	4,35
350	1200	587UZ	95.0	86	460V	401	1.15	C	3877	33NFC-3-350-12/5UZ	34,334.00	
	1800	449T	95.2	87	460V	457	1.0	C	2830	40NFC-3-400-18	33,411.00	4,35
400	1800	587UZ	95.5	90	460V	436	1.15	C	4549	33NFC-3-400-18/5UZ	34,269.00	
	1200	587UZ	95.0	86	460V	458	1.15	C	4695	33NFC-3-400-12/5UZ	36,122.00	
500	1800	588UZ	95.5	90	460V	545	1.15	C	4300	33NFC-3-500-18/5UZ	41,629.00	
	1200	588UZ	95.0	86	460V	573	1.15	C	4420	33NFC-3-500-12/5UZ	43,113.00	
600	1800	588UZ	95.5	90	460V	654	1.15	C	4420	33NFC-3-600-18/5UZ	44,246.00	

#### Performance Data & Mounting Dimensions: 110 - 111

Non-stock item may be available in limited supply or by special order. Call 847-524-1074 or email support@elektrimmotors.com for details.

<sup>(a)</sup> See notes on inside back cover.



## Metric IEC Frame Motors – 0.08-270 HP

3PH TEFC 60/50 Hz AC B3 Foot Mounted Motors



**Applications:** Designed to meet international standards as replacement motors for overseas applications and machinery such as pumps, conveyors, fans and more.

### Features

- Inverter Duty Rated: 5:1CT & 10:1VT at 460V 60 Hz
- Service Factor: up to 1.2 at 460V 60 Hz
- Design: "N" or "H"
- Protection Degree: IP55
- Enclosure: TEFC
- High lock rotor torque
- VPI process applied for best electrical performance
- IEC132 frame and larger suitable for Y/Delta starting
- Electromagnetic compatibility standards: EN 50081-1(2) and EN 50082-1(2)
- Nameplate rated 230/460V 60 Hz and 380/400V 50 Hz
- 575V and other ratings available upon request
- Oversized ball bearings on both ends for direct coupling
- Class "F" insulation
- Junction box equipped with glands
- F3 mounting position
- Drilled and tapped end shaft
- Drain plugs
- Bidirectional fan
- All motors provided with CE mark
- Warranty: 3-Years

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Design	Net Weight	Removable Feet	Footed B3 Part Number	List Price	Notes <sup>(a)</sup>
0.08	0.06	1800	56	55	66	230/460V	0.44/0.22	IE1	–	5.9	Yes	40MFM-3-.08-18	213.00	13,17,19
		3600	56	58	75	230/460V	0.56/0.28	IE1	–	6.6	Yes	40MFM-3-.12-36	219.00	13,17,19
0.12	0.09	1800	56	61	65	230/460V	0.6/0.3	IE1	–	6.4	Yes	40MFM-3-.12-18	219.00	13,17,19
		3600	56	63	83	230/460V	0.6/0.3	IE1	–	7.5	Yes	40MFM-3-.17-36	223.00	13,17,19
0.17	0.12	1800	63	64	72	230/460V	0.7/0.35	IE1	–	7.9	Yes	40MFM-3-.17-18	227.00	13,17,19
		3600	63	65	80	230/460V	1/0.5	IE1	–	7.9	Yes	40MFM-3-.25-36	228.00	13,17,19
0.25	0.18	1800	63	64	70	230/460V	1.1/0.55	IE1	–	9.3	Yes	40MFM-3-.25-18	235.00	13,17,19
		1200	71	57	68	230/460V	1.4/0.7	IE1	–	10.8	Yes	40MFM-3-.25-12	265.00	13,17,19
0.33	0.25	3600	63	68	83	230/460V	1.1/0.55	IE1	–	9.3	Yes	40MFM-3-.33-36	241.00	13,17,19
		1800	71	66	68	230/460V	1.4/0.7	IE1	–	10.6	Yes	40MFM-3-.33-18	241.00	13,17,19
0.5	0.37	1200	71	55	70	230/460V	1.8/0.9	IE1	–	12.8	Yes	40MFM-3-.33-12	281.00	13,17,19
		3600	71	71	68	230/460V	1.8/0.9	IE1	–	11.7	Yes	40MFM-3-.50-36	258.00	13,17,19
0.75	0.55	1800	71	68	68	230/460V	2/1	IE1	–	13	Yes	40MFM-3-.50-18	258.00	13,17,19
		1200	80	64	64	230/460V	2.4/1.2	IE1	–	16	Yes	40MFM-3-.50-12	340.00	13,17,19
1	0.75	3600	71	75	85	230/460V	2.4/1.2	IE1	–	13.2	Yes	40MFM-3-.75-36	281.00	13,17,19
		1800	80	70	72	230/460V	3/1.5	IE1	–	16.5	Yes	40MFM-3-.75-18	321.00	13,17,19
1	0.75	1200	80	67	72	230/460V	3.2/1.6	IE1	–	19	Yes	40MFM-3-.75-12	382.00	13,17,19
		3600	80	82	79	230/460V	3/1.5	IE3	N	23	Yes	20MFM-3-1-36P	431.00	13,17,19
1	0.75	1800	80	74	80	230/460V	3.2/1.6	IE1	–	17.2	Yes	40MFM-3-1-36	334.00	13,17,19◆
		1200	80	83.5	64	230/460V	3.7/1.85	IE3	N	24	Yes	20MFM-3-1-18P	392.00	13,17,19
1.5	1.1	1800	80	75	73	230/460V	3.4/1.7	IE1	–	19.4	Yes	40MFM-3-1-18	311.00	13,17,19◆
		3600	90S	80	65	230/460V	3.6/1.8	IE2	H	36.4	Yes	20MFM-3-1-12	657.00	13,14,17,19
1.5	1.1	1800	90S	82.5	65	230/460V	3.6/1.8	IE3	N	36	Yes	20MFM-3-1-12P	760.00	9,13,14,17,19
		3600	80	85.5	77	230/460V	3.8/1.9	IE3	N	26	Yes	20MFM-3-1.5-36P	457.00	13,17,19
1.5	1.1	1800	80	77	84	230/460V	4.4/2.2	IE1	–	20.1	Yes	40MFM-3-1.5-36	362.00	13,17,19◆
		3600	90S	84	72	230/460V	4.6/2.3	IE2	H	36	Yes	20MFM-3-1.5-18	633.00	13,14,17,19◆
1.5	1.1	1800	90S	86.5	73	230/460V	4.4/2.2	IE3	N	40	Yes	20MFM-3-1.5-18P	731.00	9,13,14,17,19

**NEW PRODUCT**

**Performance Data & Mounting Dimensions:** 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

Motors are dual rated for 50 Hz and 60 Hz: 380/400V 50 Hz and 230/460V 60 Hz

<sup>(a)</sup> See notes on inside back cover.

### Metric IEC Frame, IEC AC 3PH, B3 Foot Mounted

### 0.08-270 HP

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Design	Net Weight	Removable Feet	Footed B3 Part Number	List Price	Notes (a)		
2	1.5	3600	90S	85.5	79	230/460V	5.6/2.8	IE3	N	31	Yes	20MFM-3-2-36	616.00	13,14,17,19◆		
			90S	85.5	81	230/460V	5.4/2.7	IE3	N	36	Yes	20MFM-3-2-36P	712.00	9,13,14,17,19		
		1800	90L	84	74	230/460V	6/3	IE2	H	42	Yes	20MFM-3-2-18	671.00	13,14,17,19◆		
			90L	86.5	77	230/460V	5.6/2.8	IE3	H	46	Yes	20MFM-3-2-18P	775.00	9,13,14,17,19		
3	2.2	3600	90L	86.5	80	230/460V	8/4	IE3	N	38	Yes	20MFM-3-3-36	763.00	13,14,17,19◆		
			90L	86.5	84	230/460V	7.6/3.8	IE3	N	41	Yes	20MFM-3-3-36P	882.00	9,13,14,17,19		
		1800	100L	87.5	79	230/460V	8/4	IE2	H	56	Yes	20MFM-3-3-18	755.00	13,14,17,19◆		
			100L	88.5	81	230/460V	10.6/5.3	IE3	N	59	Yes	20MFM-3-4-36	845.00	13,14,17,19◆		
4	3	3600	100L	88.5	82	230/460V	10.4/5.2	IE3	N	55	Yes	20MFM-3-4-36P	977.00	13,14,17,19		
			1800	100L	87.5	74	230/460V	11.6/5.8	IE2	H	66	Yes	20MFM-3-4-18	869.00	13,14,17,19◆	
		1200	132S	87.5	76	230/460V	11.4/5.7	IE2	H	120	Yes	20MFM-3-4-12	1,498.00	13,18,20,23◆		
			132S	89.5	79	230/460V	10.6/5.3	IE3	H	161	Yes	20MFM-3-4-12P	1,731.00	9,13,18,20,23		
		5.5	4	3600	112M	89	85	230/460V	13.2/6.6	IE3	N	74	Yes	20MFM-3-5-5-36	928.00	13,14,17,19◆
					112M	88.5	88	230/460V	12.8/6.4	IE3	N	78	Yes	20MFM-3-5-5-36P	1,073.00	13,14,17,19
1800	112M			87.5	78	230/460V	14.8/7.4	IE2	H	78	Yes	20MFM-3-5-5-18	927.00	13,14,17,19◆		
	112M			89.5	79	230/460V	14.2/7.1	IE3	H	92	Yes	20MFM-3-5-5-18P	1,071.00	13,14,17,19		
7.5	5.5	1200	132M	87.5	76	230/460V	15/7.5	IE2	H	146	Yes	20MFM-3-5-5-12	1,507.00	13,18,20,23◆		
			132M	89.5	80	230/460V	14/7	IE3	H	179	Yes	20MFM-3-5-5-12P	1,741.00	9,13,18,20,23		
		3600	132S	89.5	88	230/460V	17.6/8.8	IE3	N	132	Yes	20MFM-3-7-5-36	1,150.00	13,18,20,23◆		
			132S	89.5	87	230/460V	17.8/8.9	IE3	N	163	Yes	20MFM-3-7-5-36P	1,329.00	9,13,18,20,23		
			1800	132S	89.5	79	230/460V	19.6/9.8	IE2	H	156	Yes	20MFM-3-7-5-18	1,308.00	13,18,20,23◆	
			132S	91.7	83	230/460V	18.2/9.1	IE3	H	181	Yes	20MFM-3-7-5-18P	1,511.00	9,13,18,20,23		
10	7.5	3600	132S	90.2	91	230/460V	23/11.5	IE3	N	156	Yes	20MFM-3-10-36	1,302.00	13,18,20,23◆		
			132S	90.2	89	230/460V	23.4/11.7	IE3	N	183	Yes	20MFM-3-10-36P	1,504.00	9,13,18,20,23		
		1800	132M	89.5	80	230/460V	26.2/13.1	IE2	H	162	Yes	20MFM-3-10-18	1,503.00	13,18,20,23◆		
			132M	91.7	79	230/460V	25.8/12.9	IE3	H	190	Yes	20MFM-3-10-18P	1,736.00	9,13,18,20,23		
			1200	160M	89.5	80	230/460V	26.2/13.1	IE2	H	221	-	20MFM-3-10-12	2,536.00	18,20,23◆	
				160M	91	81	230/460V	25.8/12.9	IE3	H	295	Yes	20MFM-3-10-12P	2,930.00	9,13,18,20,23	
15	11	3600	160M	91	86	230/460V	35.2/17.6	IE3	N	212	-	20MFM-3-15-36	1,815.00	18,20,23◆		
			160M	91	90	230/460V	33.8/16.9	IE3	N	271	Yes	20MFM-3-15-36P	2,097.00	9,13,18,20,23		
		1800	160M	91	80	230/460V	38/19	IE2	H	234	-	20MFM-3-15-18	1,862.00	18,20,23◆		
			160M	92.4	83	230/460V	36/18	IE3	H	300	Yes	20MFM-3-15-18P	2,151.00	9,13,18,20,23		
			1200	160L	90.2	82	230/460V	37.4/18.7	IE2	H	276	-	20MFM-3-15-12	3,010.00	18,20,23◆	
				160L	91.7	79	230/460V	38/19	IE3	H	322	Yes	20MFM-3-15-12P	3,477.00	9,13,18,20,23	
20	15	3600	160M	91	89	230/460V	46.4/23.2	IE3	N	227	-	20MFM-3-20-36	2,150.00	18,20,23◆		
			160M	91	90	230/460V	46/23	IE3	N	291	Yes	20MFM-3-20-36P	2,484.00	9,13,18,20,23		
		1800	160L	91	80	230/460V	51.8/25.9	IE2	H	278	-	20MFM-3-20-18	2,236.00	18,20,23◆		
			160L	93	82	230/460V	49.4/24.7	IE3	H	340	Yes	20MFM-3-20-18P	2,583.00	9,13,18,20,23		
			1200	180L	90.2	81	230/460V	51.6/25.8	IE2	H	375	-	20MFM-3-20-12	3,622.00	18,20,23◆	
				180L	91.7	80	230/460V	51.4/25.7	IE3	H	437	Yes	20MFM-3-20-12P	4,184.00	9,13,18,20,23	
25	18.5	3600	160L	91.7	90	230/460V	56.2/28.1	IE3	N	260	-	20MFM-3-25-36	2,594.00	18,20,23◆		
			160L	91.7	90	230/460V	56.2/28.1	IE3	N	306	Yes	20MFM-3-25-36P	2,996.00	9,13,18,20,23		
		1800	180M	92.4	85	230/460V	59.2/29.6	IE2	H	373	-	20MFM-3-25-18	2,726.00	18,20,23◆		
			180M	93.6	84	230/460V	59/29.5	IE3	H	419	Yes	20MFM-3-25-18P	3,149.00	9,13,18,20,23		
			1200	200L	92	77	230/460V	66/33	IE2	H	624	-	20MFM-3-25-12	5,845.00	16,18,20,23◆	
				200L	93	80	230/460V	62/31	IE3	H	628	-	20MFM-3-25-12P	6,752.00	16,18,20,23	

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

Motors are dual rated for 50 Hz and 60 Hz: 380/400V 50 Hz and 230/460V 60 Hz

(a) See notes on inside back cover.

Metric IEC Frame, IEC AC 3PH, B3 Foot Mounted

0.08-270 HP

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Design	Net Weight	Removable Feet	Footed B3 Part Number	List Price	Notes (a)
30	22	3600	180M	91.7	87	230/460V	69.2/34.6	IE3	N	345	–	20MFM-3-30-36	3,130.00	18,20,23◆
			180M	91.7	89	230/460V	67.6/33.8	IE3	N	419	Yes	20MFM-3-30-36P	3,616.00	9,13,18,20,23
		1800	180L	92.4	86	230/460V	69.4/34.7	IE2	H	397	–	20MFM-3-30-18	3,396.00	18,20,23◆
			180L	93.6	82	230/460V	72/36	IE3	H	441	Yes	20MFM-3-30-18P	3,923.00	9,13,18,20,23
		1200	200L	92.1	79	230/460V	76/38	IE2	H	648	–	20MFM-3-30-12	6,151.00	16,18,20,23◆
			200L	93	81	230/460V	73/36.5	IE3	H	681	–	20MFM-3-30-12P	7,105.00	16,18,20,23
40	30	3600	200L	92.4	90	230/460V	90/45	IE3	N	585	–	20MFM-3-40-36	7,275.00	16,18,20,23◆
			200L	92.4	90	230/460V	91/45	IE3	N	606	–	20MFM-3-40-36P	8,404.00	16,18,20,23
		1800	200L	93.4	87	230/460V	92/46	IE2	H	628	–	20MFM-3-40-18	5,982.00	16,18,20,23◆
			200L	94.3	89	230/460V	90/45	IE3	H	725	–	20MFM-3-40-18P	6,909.00	16,18,20,23
		1200	225M	93	81	230/460V	100/50	IE2	H	836	–	20MFM-3-40-12	7,952.00	16,18,20,23◆
			225M	94.1	82	230/460V	98/49	IE3	H	864	–	20MFM-3-40-12P	9,185.00	9,16,18,20,23
50	37	3600	200L	93	88	230/460V	114/57	IE3	N	624	–	20MFM-3-50-36	8,009.00	16,18,20,23◆
			200L	93	89	230/460V	112/56	IE3	N	650	–	20MFM-3-50-36P	9,251.00	16,18,20,23
		1800	225S	93.7	87	230/460V	114/57	IE2	H	811	–	20MFM-3-50-18	7,666.00	16,18,20,23◆
			225S	94.7	87	230/460V	113/56	IE3	H	822	–	20MFM-3-50-18P	8,855.00	9,16,18,20,23
		1200	250M	93	81	230/460V	124/62	IE2	H	1010	–	20MFM-3-50-12	9,958.00	16,18,20,23◆
			250M	94.1	81	230/460V	122/61	IE3	H	970	–	20MFM-3-50-12P	11,502.00	16,18,20,23
60	45	3600	225M	93.6	87	230/460V	138/69	IE3	N	838	–	20MFM-3-60-36	8,833.00	16,18,20,23◆
			225M	94.2	87	230/460V	138/69	IE3	N	849	–	20MFM-3-60-36P	10,202.00	9,16,18,20,23
		1800	225M	93.9	87	230/460V	138/69	IE2	H	871	–	20MFM-3-60-18	8,696.00	16,18,20,23◆
			225M	95.1	88	230/460V	135/67	IE3	H	904	–	20MFM-3-60-18P	10,045.00	9,16,18,20,23
		1200	280S	93.7	83	230/460V	146/73	IE2	H	1504	–	20MFM-3-60-12	13,495.00	16,18,20,23◆
			280S	94.5	82	230/460V	146/73	IE3	H	1400	–	20MFM-3-60-12P	15,588.00	9,16,18,20,23
75	55	3600	250M	94.2	90	230/460V	163/81	IE3	N	1091	–	20MFM-3-75-36P	13,234.00	16,18,20,23
			250M	94.1	89	230/460V	164/82	IE2	H	1054	–	20MFM-3-75-18	9,704.00	16,18,20,23◆
		1800	250M	95.4	90	230/460V	161/80	IE3	H	1147	–	20MFM-3-75-18P	11,209.00	16,18,20,23
			280M	94.2	81	230/460V	182/91	IE2	H	1638	–	20MFM-3-75-12	14,440.00	16,18,20,23◆
		1200	280M	94.7	80	230/460V	182/91	IE3	H	1532	–	20MFM-3-75-12P	16,679.00	9,16,18,20,23
			280S	94.1	90	230/460V	222/111	IE3	N	1444	–	20MFM-3-100-36	12,803.00	16,18,20,23◆
100	75	3600	280S	94.4	89	230/460V	224/112	IE3	N	1455	–	20MFM-3-100-36P	14,788.00	9,16,18,20,23
			280S	95	89	230/460V	224/112	IE2	H	1495	–	20MFM-3-100-18	12,761.00	16,18,20,23◆
		1800	280S	95.4	90	230/460V	219/110	IE3	H	1566	–	20MFM-3-100-18P	14,739.00	9,16,18,20,23
			315S	94.5	81	230/460V	246/123	IE2	H	2168	–	20MFM-3-100-12	19,873.00	16,18,20,23◆
		1200	315S	95	82	230/460V	242/121	IE3	H	1985	–	20MFM-3-100-12P	22,953.00	9,16,18,20,23
			280M	95	90	230/460V	264/132	IE3	N	1550	–	20MFM-3-125-36	15,595.00	16,18,20,23◆
125	90	3600	280M	95	90	230/460V	264/132	IE3	N	1521	–	20MFM-3-125-36P	18,013.00	9,16,18,20,23
			280M	95.3	89	230/460V	264/132	IE2	H	1543	–	20MFM-3-125-18	13,775.00	16,18,20,23◆
		1800	280M	95.6	90	230/460V	263/131	IE3	H	1678	–	20MFM-3-125-18P	15,911.00	9,16,18,20,23
			315M	95.2	83	230/460V	286/143	IE3	H	2128	–	20MFM-3-125-12P	25,522.00	9,16,18,20,23
150	110	1800	315S	95	90	230/460V	322/161	IE2	H	1995	–	20MFM-3-150-18	19,583.00	16,18,20,23◆
			315S	95.8	90	230/460V	320/160	IE3	H	2029	–	20MFM-3-150-18P	22,619.00	9,16,18,20,23
175	132	1800	315M	95.4	90	230/460V	386/193	IE2	H	2310	–	20MFM-3-175-18	27,253.00	16,18,20,23◆
			315M	96.2	90	230/460V	383/191	IE3	H	2271	–	20MFM-3-175-18P	31,477.00	9,16,18,20,23
220	160	1800	315M	95.5	90	230/460V	468/234	IE2	H	2310	–	20MFM-3-220-18	27,253.00	16,18,20,23
			315M	96.2	90	230/460V	464/232	IE3	H	2492	–	20MFM-3-220-18P	31,477.00	9,16,18,20,23
270	200	1800	315M	96.2	89	230/460V	586/293	IE3	H	2657	–	20MFM-3-270-18P	38,640.00	9,16,18,20,23

NEW PRODUCT

Performance Data & Mounting Dimensions: 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.

(a) See notes on inside back cover.

### Metric IEC Frame, IEC AC 3PH, B3 Foot Mounted, 575V

### 4-270 HP

575V MOTORS †														
HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Design	Net Weight	Removable Feet	575V Footed B3 Part Number	List Price	Notes (a)
4	3	1200	132S	87.5	76	575V	4.6	IE2	H	120	Yes	20MFM-3-4-12/575	1,607.00	13,18,32◆
			132S	89.5	79	575V	4.2	IE3	H	161	Yes	20MFM-3-4-12P/575	1,845.00	9,13,18,32
5.5	4	1200	132M	87.5	76	575V	6	IE2	H	146	Yes	20MFM-3-5.5-12/575	1,616.00	13,18,32◆
			132M	89.5	80	575V	5.6	IE3	H	179	Yes	20MFM-3-5.5-12P/575	1,856.00	9,13,18,32
7.5	5.5	3600	132S	89.5	88	575V	7.04	IE3	N	132	Yes	20MFM-3-7.5-36/575	1,259.00	13,18,32◆
			132S	89.5	87	575V	7.1	IE3	N	163	Yes	20MFM-3-7.5-36P/575	1,443.00	9,13,18,32
		1800	132S	89.5	79	575V	7.8	IE2	H	156	Yes	20MFM-3-7.5-18/575	1,417.00	13,18,32◆
			132S	91.7	83	575V	7.3	IE3	H	181	Yes	20MFM-3-7.5-18P/575	1,626.00	9,13,18,32
10	7.5	3600	132S	90.2	91	575V	9.2	IE3	N	156	Yes	20MFM-3-10-36/575	1,411.00	13,18,32◆
			132S	90.2	89	575V	9.4	IE3	N	183	Yes	20MFM-3-10-36P/575	1,619.00	9,13,18,32
		1800	132M	89.5	80	575V	10.5	IE2	H	162	Yes	20MFM-3-10-18/575	1,612.00	13,18,32◆
			132M	91.7	79	575V	10.3	IE3	H	190	Yes	20MFM-3-10-18P/575	1,851.00	9,13,18,32
15	11	3600	160M	91	81	575V	10.3	IE3	H	295	Yes	20MFM-3-10-12P/575	3,044.00	9,13,18,32
			160M	91	86	575V	14.1	IE3	N	212	–	20MFM-3-15-36/575	1,924.00	18,32◆
		1800	160M	91	90	575V	13.5	IE3	N	271	Yes	20MFM-3-15-36P/575	2,212.00	9,13,18,32
			160M	91	80	575V	15.2	IE2	H	234	–	20MFM-3-15-18/575	1,971.00	18,32◆
20	15	3600	160M	92.4	83	575V	14.4	IE3	H	300	Yes	20MFM-3-15-18P/575	2,265.00	9,13,18,32
			160L	90.2	82	575V	15	IE2	H	276	–	20MFM-3-15-12/575	3,119.00	18,32◆
		1800	160L	91.7	79	575V	15.2	IE3	H	322	Yes	20MFM-3-15-12P/575	3,591.00	9,13,18,32
			160M	91	89	575V	18.6	IE3	N	227	–	20MFM-3-20-36/575	2,259.00	18,32◆
25	18.5	3600	160M	91	90	575V	18.4	IE3	N	291	Yes	20MFM-3-20-36P/575	2,598.00	9,13,18,32
			160L	91	80	575V	20.7	IE2	H	278	–	20MFM-3-20-18/575	2,345.00	18,32◆
		1800	160L	93	82	575V	19.8	IE3	H	340	Yes	20MFM-3-20-18P/575	2,698.00	9,13,18,32
			180L	90.2	81	575V	20.6	IE2	H	375	–	20MFM-3-20-12/575	3,731.00	18,32◆
30	22	3600	180L	91.7	80	575V	20.6	IE3	H	437	Yes	20MFM-3-20-12P/575	4,298.00	9,13,18,32
			160L	91.7	90	575V	22.5	IE3	N	260	–	20MFM-3-25-36/575	2,703.00	18,32◆
		1800	160L	91.7	90	575V	22.5	IE3	N	306	Yes	20MFM-3-25-36P/575	3,111.00	9,13,18,32
			180M	92.4	85	575V	23.7	IE2	H	373	–	20MFM-3-25-18/575	2,835.00	18,32◆
40	30	3600	180M	93.6	84	575V	23.6	IE3	H	419	Yes	20MFM-3-25-18P/575	3,264.00	9,13,18,32
			200L	92	77	575V	26.4	IE2	H	624	–	20MFM-3-25-12/575	5,954.00	16,18,32◆
		1800	200L	93	80	575V	25	IE3	H	628	–	20MFM-3-25-12P/575	6,866.00	16,18,32
			180M	91.7	87	575V	27.7	IE3	N	345	–	20MFM-3-30-36/575	3,239.00	18,32◆
50	37	3600	180M	91.7	89	575V	27	IE3	N	419	Yes	20MFM-3-30-36P/575	3,730.00	9,13,18,32
			180L	92.4	86	575V	27.8	IE2	H	397	–	20MFM-3-30-18/575	3,505.00	18,32◆
		1800	180L	93.6	82	575V	28.8	IE3	H	441	Yes	20MFM-3-30-18P/575	4,038.00	9,13,18,32
			200L	92.1	79	575V	30.4	IE2	H	648	–	20MFM-3-30-12/575	6,260.00	16,18,32◆
60	45	3600	200L	93	81	575V	29.3	IE3	H	681	–	20MFM-3-30-12P/575	7,219.00	16,18,32
			200L	92.4	90	575V	36	IE3	N	585	–	20MFM-3-40-36/575	7,384.00	16,18,32◆
		1800	200L	92.4	90	575V	36	IE3	N	606	–	20MFM-3-40-36P/575	8,518.00	16,18,32
			200L	93.4	87	575V	36.8	IE2	H	628	–	20MFM-3-40-18/575	6,091.00	16,18,32◆
75	55	1800	200L	94.3	89	575V	36	IE3	H	725	–	20MFM-3-40-18P/575	7,024.00	16,18,32
			225M	93	81	575V	40	IE2	H	836	–	20MFM-3-40-12/575	8,061.00	16,18,32◆
100	75	1800	225M	94.1	82	575V	39	IE3	H	864	–	20MFM-3-40-12P/575	9,299.00	9,16,18,32

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

Metric IEC Frame, IEC AC 3PH, B3 Foot Mounted, 575V

4-270 HP

575V MOTORS †														
HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Design	Net Weight	Removable Feet	575V Footed B3 Part Number	List Price	Notes (a)
50	37	3600	200L	93	88	575V	45.6	IE3	N	624	–	20MFM-3-50-36/575	8,118.00	16,18,32◆
			200L	93	89	575V	45	IE3	N	650	–	20MFM-3-50-36P/575	9,365.00	16,18,32
		1800	225S	93.7	87	575V	45.6	IE2	H	811	–	20MFM-3-50-18/575	7,775.00	16,18,32◆
			225S	94.7	87	575V	45	IE3	H	822	–	20MFM-3-50-18P/575	8,970.00	9,16,18,32
		1200	250M	93	81	575V	49.6	IE2	H	1010	–	20MFM-3-50-12/575	10,067.00	16,18,32◆
			250M	94.1	81	575V	49	IE3	H	970	–	20MFM-3-50-12P/575	11,617.00	16,18,32
60	45	3600	225M	93.6	87	575V	55.2	IE3	N	838	–	20MFM-3-60-36/575	8,942.00	16,18,32◆
			225M	94.2	87	575V	55	IE3	N	849	–	20MFM-3-60-36P/575	10,317.00	9,16,18,32
		1800	225M	93.9	87	575V	55.2	IE2	H	871	–	20MFM-3-60-18/575	8,805.00	16,18,32◆
			225M	95.1	88	575V	54	IE3	H	904	–	20MFM-3-60-18P/575	10,159.00	9,16,18,32
		1200	280S	93.7	83	575V	58.4	IE2	H	1504	–	20MFM-3-60-12/575	13,604.00	16,18,32◆
			280S	94.5	82	575V	58	IE3	H	1400	–	20MFM-3-60-12P/575	15,702.00	9,16,18,32
75	55	3600	250M	94.2	90	575V	65	IE3	N	1091	–	20MFM-3-75-36P/575	13,348.00	16,18,32
			250M	94.1	89	575V	65.6	IE2	H	1054	–	20MFM-3-75-18/575	9,813.00	16,18,32◆
		1800	250M	95.4	90	575V	64	IE3	H	1147	–	20MFM-3-75-18P/575	11,324.00	16,18,32
			280M	94.2	81	575V	72.8	IE2	H	1638	–	20MFM-3-75-12/575	14,549.00	16,18,32◆
		1200	280M	94.7	80	575V	73	IE3	H	1532	–	20MFM-3-75-12P/575	16,793.00	9,16,18,32
			280S	94.1	90	575V	88.8	IE3	N	1444	–	20MFM-3-100-36/575	12,912.00	16,18,32◆
100	75	3600	280S	94.4	89	575V	90	IE3	N	1455	–	20MFM-3-100-36P/575	14,902.00	9,16,18,32
			280S	95	89	575V	89.6	IE2	H	1495	–	20MFM-3-100-18/575	12,870.00	16,18,32◆
		1800	280S	95.4	90	575V	88	IE3	H	1566	–	20MFM-3-100-18P/575	14,854.00	9,16,18,32
			315S	94.5	81	575V	98.4	IE2	H	2168	–	20MFM-3-100-12/575	19,982.00	16,18,32◆
		1200	315S	95	82	575V	97	IE3	H	1985	–	20MFM-3-100-12P/575	23,068.00	9,16,18,32
			280M	95	90	575V	105.6	IE3	N	1550	–	20MFM-3-125-36/575	15,704.00	16,18,32◆
125	90	3600	280M	95	90	575V	106	IE3	N	1521	–	20MFM-3-125-36P/575	18,128.00	9,16,18,32
			280M	95.3	89	575V	105.6	IE2	H	1543	–	20MFM-3-125-18/575	13,884.00	16,18,32◆
		1800	280M	95.6	90	575V	105	IE3	H	1678	–	20MFM-3-125-18P/575	16,026.00	9,16,18,32
			315M	95.2	83	575V	114	IE3	H	2128	–	20MFM-3-125-12P/575	25,636.00	9,16,18,32
		1200	315S	95	90	575V	128.8	IE2	H	1995	–	20MFM-3-150-18/575	19,692.00	16,18,32◆
			315S	95.8	90	575V	128	IE3	H	2029	–	20MFM-3-150-18P/575	22,733.00	9,16,18,32
175	132	1800	315M	95.4	90	575V	155	IE2	H	2310	–	20MFM-3-175-18/575	27,362.00	16,18,32◆
			315M	96.2	90	575V	153	IE3	H	2271	–	20MFM-3-175-18P/575	31,592.00	9,16,18,32
220	160	1800	315M	95.5	90	575V	188	IE2	H	2310	–	20MFM-3-220-18/575	27,362.00	16,18,32◆
			315M	96.2	90	575V	186	IE3	H	2492	–	20MFM-3-220-18P/575	31,592.00	9,16,18,32
270	200	1800	315M	96.2	89	575V	235	IE3	H	2657	–	20MFM-3-270-18P/575	38,755.00	9,16,18,32

NEW PRODUCT

Performance Data & Mounting Dimensions: 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.



## IEC Large Frame Low Voltage Metric Motors – 300-1500 HP

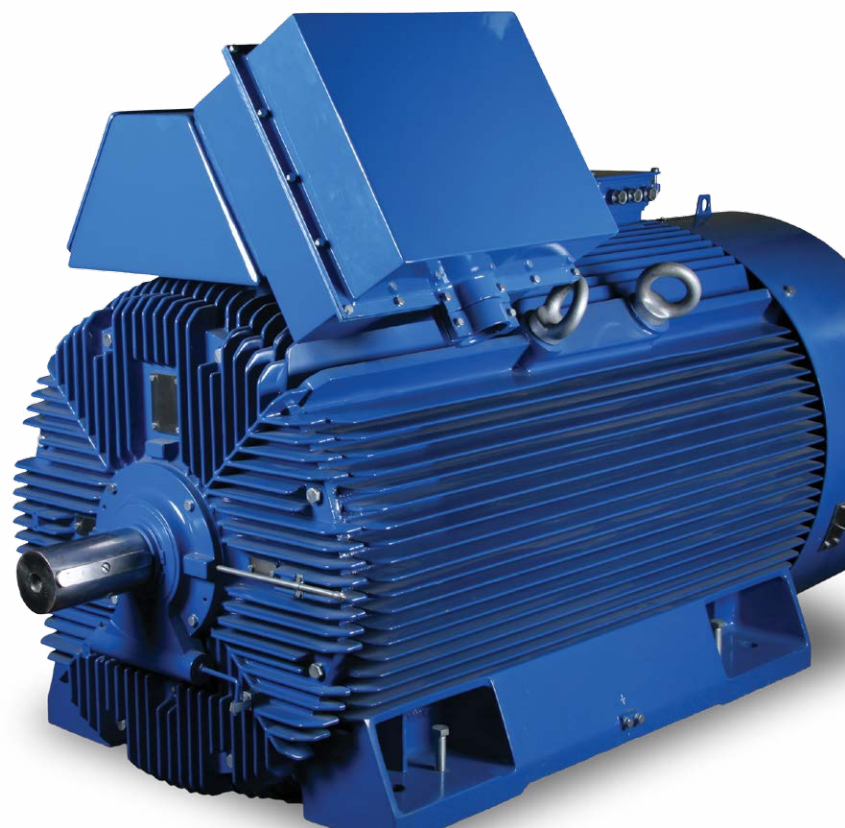
3PH TEFC 50/60 Hz AC B3 Foot Mounted Motors

**Applications:** Designed to meet international standards as replacement motors for overseas applications and machinery such as pumps, conveyors, fans and more.

### Features

- Inverter Duty Rated
- Design: "N" or "H"
- Protection Degree: IP55 or better
- Enclosure: TEFC
- High efficiency motors
- Vacuum pressure impregnation (VPI) for the most dependable failsafe electrical performance
- Electromagnetic compatibility standards: EN 50081-1(2) and EN 50082-1(2)
- Nameplate rated 380/400V 50 Hz or 460V 60 Hz
- Reduced vibration and noise level
- Class "F" insulation
- Oversized ball bearings on both ends for direct coupling
- Junction box equipped with glands
- F3 mounting position
- Drilled and tapped end shaft
- Drain plugs
- Bidirectional fan
- D-Flange available for most sizes
- All motors provided with CE mark
- Warranty: 12-Months from Installation, 18-Months from Purchase Date

**Non-stock item available by special order.**



## Metric IEC Frame Motors – 0.08-270 HP

3PH TEFC 60/50 Hz AC B35 D-Flange Motors

**Applications:** Designed to meet international standards as replacement motors for overseas applications and machinery such as pumps, conveyors, fans and more.



### Features

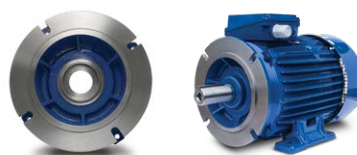
- Inverter Duty Rated: 5:1CT & 10:1VT at 460V 60 Hz
- Service Factor: up to 1.2 at 460V 60 Hz
- Design: "N" or "H"
- Protection Degree: IP55
- Enclosure: TEFC
- High lock rotor torque
- VPI process applied for best electrical performance
- IEC132 frame and larger suitable for Y/Delta starting
- Electromagnetic compatibility standards: EN 50081-1(2) and EN 50082-1(2)
- Nameplate rated 230/460V 60 Hz and 380/400V 50 Hz
- 575V and other ratings available upon request
- Oversized ball bearings on both ends for direct coupling
- Class "F" insulation
- Junction box equipped with glands
- F3 mounting position
- Drilled and tapped end shaft
- Drain plugs
- Bidirectional fan
- All motors provided with CE mark
- Warranty: 3-Years

#### STANDARD D-FLANGE

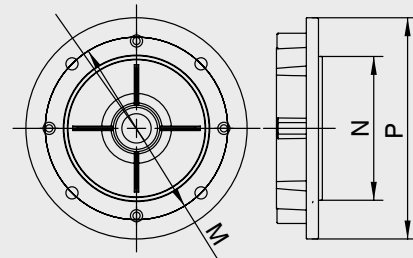


B5 Flange on 20MDM-3-3-18 footed motor

#### REDUCTION D-FLANGE



B5 Reduced D-Flange denoted by /R suffix



HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Dim M	Flange Dim N	Flange Dim P	Removable Feet	D-Flange B35 Part Number	List Price	Notes (a)
0.08	0.06	1800	56	55	66	230/460V	0.44/0.22	IE1	–	5.9	100	80	120	Yes	40MDM-3-08-18	231.00	13,17,19
		3600	56	58	75	230/460V	0.56/0.28	IE1	–	6.6	100	80	120	Yes	40MDM-3-12-36	239.00	13,17,19
0.12	0.09	1800	56	61	65	230/460V	0.6/0.3	IE1	–	6.4	100	80	120	Yes	40MDM-3-12-18	239.00	13,17,19
		3600	56	63	83	230/460V	0.6/0.3	IE1	–	7.5	100	80	120	Yes	40MDM-3-17-36	243.00	13,17,19
0.17	0.12	1800	63	64	72	230/460V	0.7/0.35	IE1	–	7.9	115	95	140	Yes	40MDM-3-17-18	247.00	13,17,19
		3600	63	65	80	230/460V	1/0.5	IE1	–	7.9	115	95	140	Yes	40MDM-3-25-36	249.00	13,17,19
0.25	0.18	1800	63	64	70	230/460V	1.1/0.55	IE1	–	9.3	115	95	140	Yes	40MDM-3-25-18	256.00	13,17,19
		1200	71	57	68	230/460V	1.4/0.7	IE1	–	10.8	130	110	160	Yes	40MDM-3-25-12	289.00	13,17,19
0.33	0.25	3600	63	68	83	230/460V	1.1/0.55	IE1	–	9.3	115	95	140	Yes	40MDM-3-33-36	263.00	13,17,19
		1800	71	66	68	230/460V	1.4/0.7	IE1	–	10.6	130	110	160	Yes	40MDM-3-33-18	263.00	13,17,19
0.5	0.37	1200	71	55	70	230/460V	1.8/0.9	IE1	–	12.8	130	110	160	Yes	40MDM-3-33-12	306.00	13,17,19
		3600	71	71	68	230/460V	1.8/0.9	IE1	–	11.7	130	110	160	Yes	40MDM-3-50-36	281.00	13,17,19
0.75	0.55	1800	71	68	68	230/460V	2/1	IE1	–	13	130	110	160	Yes	40MDM-3-50-18	281.00	13,17,19
		1200	80	64	64	230/460V	2.4/1.2	IE1	–	16	165	130	200	Yes	40MDM-3-50-12	370.00	13,17,19
		3600	71	75	85	230/460V	2.4/1.2	IE1	–	13.2	130	110	160	Yes	40MDM-3-75-36	306.00	13,17,19
		1800	80	70	72	230/460V	3/1.5	IE1	–	16.5	165	130	200	Yes	40MDM-3-75-18	349.00	13,17,19
		1200	80	67	72	230/460V	3.2/1.6	IE1	–	19	165	130	200	Yes	40MDM-3-75-12	416.00	13,17,19

**Performance Data & Mounting Dimensions:** 92 - 104  
 Motors can be modified from Footed to C-Face or D-Flange and vice versa.  
 230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.  
 (a) See notes on inside back cover.

### Metric IEC Frame, IEC AC 3PH, B35 D-Flange

### 0.08-270 HP

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Dim M	Flange Dim N	Flange Dim P	Removable Feet	D-Flange B35 Part Number	List Price	Notes (a)		
1	0.75	3600	80	74	80	230/460V	3.2/1.6	IE1	-	17.2	165	130	200	Yes	40MDM-3-1-36	364.00	13,17,19◆		
			80	82	79	230/460V	3/1.5	IE3	N	23	165	130	200	Yes	20MDM-3-1-36P	470.00	13,17,19		
		1800	80	75	73	230/460V	3.4/1.7	IE1	-	19.4	165	130	200	Yes	40MDM-3-1-18	339.00	13,17,19◆		
			80	83.5	64	230/460V	3.7/1.85	IE3	N	24	165	130	200	Yes	20MDM-3-1-18P	428.00	13,17,19		
		1200	90S	80	65	230/460V	3.6/1.8	IE2	H	36.4	165	130	200	Yes	20MDM-3-1-12	716.00	13,14,17,19◆		
			90S	82.5	65	230/460V	3.6/1.8	IE3	N	36	165	130	200	Yes	20MDM-3-1-12P	828.00	9,13,14,17,19		
	1.5	1.1	3600	80	77	84	230/460V	4.4/2.2	IE1	-	20.1	165	130	200	Yes	40MDM-3-1.5-36	395.00	13,17,19◆	
				80	85.5	77	230/460V	3.8/1.9	IE3	N	26	165	130	200	Yes	20MDM-3-1.5-36P	498.00	13,17,19	
			90S	84	72	230/460V	4.6/2.3	IE2	H	36	165	130	200	Yes	20MDM-3-1.5-18	690.00	13,14,17,19◆		
		1800	90S	86.5	73	230/460V	4.4/2.2	IE3	N	40	165	130	200	Yes	20MDM-3-1.5-18P	797.00	9,13,14,17,19		
			90S	84	72	230/460V	4.6/2.3	IE2	H	36	130	110	160	Yes	20MDM-3-1.5-18/R	690.00	13,14,17,19◆		
			90S	86.5	73	230/460V	4.4/2.2	IE3	N	40	130	110	160	Yes	20MDM-3-1.5-18P/R	797.00	9,13,14,17,19		
2	1.5	3600	90S	85.5	79	230/460V	5.6/2.8	IE3	N	31	165	130	200	Yes	20MDM-3-2-36	671.00	13,14,17,19◆		
			90S	85.5	81	230/460V	5.4/2.7	IE3	N	36	165	130	200	Yes	20MDM-3-2-36P	775.00	9,13,14,17,19		
		1800	90S	85.5	79	230/460V	5.6/2.8	IE3	N	31	130	110	160	Yes	20MDM-3-2-36/R	671.00	13,14,17,19◆		
			90S	85.5	81	230/460V	5.4/2.7	IE3	N	36	130	110	160	Yes	20MDM-3-2-36P/R	775.00	9,13,14,17,19		
		3	2.2	3600	90L	84	74	230/460V	6/3	IE2	H	42	165	130	200	Yes	20MDM-3-2-18	731.00	13,14,17,19◆
					90L	86.5	77	230/460V	5.6/2.8	IE3	H	46	165	130	200	Yes	20MDM-3-2-18P	845.00	9,13,14,17,19
	90L			84	74	230/460V	6/3	IE2	H	42	130	110	160	Yes	20MDM-3-2-18/R	731.00	13,14,17,19◆		
	1800		90L	86.5	77	230/460V	5.6/2.8	IE3	H	46	130	110	160	Yes	20MDM-3-2-18P/R	845.00	9,13,14,17,19		
			90L	86.5	80	230/460V	8/4	IE3	N	38	165	130	200	Yes	20MDM-3-3-36	832.00	13,14,17,19◆		
			90L	86.5	84	230/460V	7.6/3.8	IE3	N	41	165	130	200	Yes	20MDM-3-3-36P	962.00	9,13,14,17,19		
	3	2.2	3600	90L	86.5	80	230/460V	8/4	IE3	N	38	130	110	160	Yes	20MDM-3-3-36/R	832.00	13,14,17,19◆	
				90L	86.5	84	230/460V	7.6/3.8	IE3	N	41	130	110	160	Yes	20MDM-3-3-36P/R	962.00	9,13,14,17,19	
1800			100L	87.5	79	230/460V	8/4	IE2	H	56	215	180	250	Yes	20MDM-3-3-18	823.00	13,14,17,19◆		
			100L	87.5	79	230/460V	8/4	IE2	H	56	165	130	200	Yes	20MDM-3-3-18/R	823.00	13,14,17,19◆		
4			3	3600	100L	88.5	81	230/460V	10.6/5.3	IE3	N	59	215	180	250	Yes	20MDM-3-4-36	921.00	13,14,17,19◆
					100L	88.5	82	230/460V	10.4/5.2	IE3	N	55	215	180	250	Yes	20MDM-3-4-36P	1,065.00	13,14,17,19
		100L		88.5	81	230/460V	10.6/5.3	IE3	N	59	165	130	200	Yes	20MDM-3-4-36/R	921.00	13,14,17,19◆		
		1800	100L	88.5	82	230/460V	10.4/5.2	IE3	N	55	165	130	200	Yes	20MDM-3-4-36P/R	1,065.00	13,14,17,19		
			100L	87.5	74	230/460V	11.6/5.8	IE2	H	66	215	180	250	Yes	20MDM-3-4-18	947.00	13,14,17,19◆		
			100L	87.5	74	230/460V	11.6/5.8	IE2	H	66	165	130	200	Yes	20MDM-3-4-18/R	947.00	13,14,17,19◆		
4		3	1800	132S	87.5	76	230/460V	11.4/5.7	IE2	H	120	265	230	300	Yes	20MDM-3-4-12	1,633.00	13,18,20,23◆	
				132S	89.5	79	230/460V	10.6/5.3	IE3	H	161	265	230	300	Yes	20MDM-3-4-12P	1,886.00	9,13,18,20,23	
	1200		132S	87.5	76	230/460V	11.4/5.7	IE2	H	120	215	180	250	Yes	20MDM-3-4-12/R	1,633.00	13,18,20,23◆		
			132S	89.5	79	230/460V	10.6/5.3	IE3	H	161	215	180	250	Yes	20MDM-3-4-12P/R	1,886.00	9,13,18,20,23		
	5.5		4	3600	112M	89	85	230/460V	13.2/6.6	IE3	N	74	215	180	250	Yes	20MDM-3-5.5-36	1,012.00	13,14,17,19◆
					112M	88.5	88	230/460V	12.8/6.4	IE3	N	78	215	180	250	Yes	20MDM-3-5.5-36P	1,169.00	13,14,17,19
		112M		89	85	230/460V	13.2/6.6	IE3	N	74	165	130	200	Yes	20MDM-3-5.5-36/R	1,012.00	13,14,17,19◆		
		1800	112M	88.5	88	230/460V	12.8/6.4	IE3	N	78	165	130	200	Yes	20MDM-3-5.5-36P/R	1,169.00	13,14,17,19		
			112M	87.5	78	230/460V	14.8/7.4	IE2	H	78	215	180	250	Yes	20MDM-3-5.5-18	1,010.00	13,14,17,19◆		
			112M	89.5	79	230/460V	14.2/7.1	IE3	H	92	215	180	250	Yes	20MDM-3-5.5-18P	1,168.00	13,14,17,19		
	5	4	1800	112M	87.5	78	230/460V	14.8/7.4	IE2	H	78	165	130	200	Yes	20MDM-3-5.5-18/R	1,010.00	13,14,17,19◆	
				112M	89.5	79	230/460V	14.2/7.1	IE3	H	92	165	130	200	Yes	20MDM-3-5.5-18P/R	1,168.00	13,14,17,19	
132M			87.5	76	230/460V	15/7.5	IE2	H	146	265	230	300	Yes	20MDM-3-5.5-12	1,643.00	13,18,20,23◆			
1200		132M	89.5	80	230/460V	14/7	IE3	H	179	265	230	300	Yes	20MDM-3-5.5-12P	1,898.00	9,13,18,20,23			
		132M	87.5	76	230/460V	15/7.5	IE2	H	146	215	180	250	Yes	20MDM-3-5.5-12/R	1,643.00	13,18,20,23◆			
		132M	89.5	80	230/460V	14/7	IE3	H	179	215	180	250	Yes	20MDM-3-5.5-12P/R	1,898.00	9,13,18,20,23			

#### NEW PRODUCT

#### Performance Data & Mounting Dimensions: 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.

(a) See notes on inside back cover.



## Metric IEC Frame, IEC AC 3PH, B35 D-Flange

0.08-270 HP

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Dim			Removable Feet	D-Flange B35 Part Number	List Price	Notes (a)		
										M N P									
7.5	5.5	3600	132S	89.5	88	230/460V	17.6/8.8	IE3	N	132	265	230	300	Yes	20MDM-3-7.5-36	1,254.00	13,18,20,23◆		
			132S	89.5	87	230/460V	17.8/8.9	IE3	N	163	265	230	300	Yes	20MDM-3-7.5-36P	1,448.00	9,13,18,20,23		
			132S	89.5	88	230/460V	17.6/8.8	IE3	N	132	215	180	250	Yes	20MDM-3-7.5-36/R	1,254.00	13,18,20,23◆		
			132S	89.5	87	230/460V	17.8/8.9	IE3	N	163	215	180	250	Yes	20MDM-3-7.5-36P/R	1,448.00	9,13,18,20,23		
			132S	89.5	79	230/460V	19.6/9.8	IE2	H	156	265	230	300	Yes	20MDM-3-7.5-18	1,426.00	13,18,20,23◆		
			132M	91.7	83	230/460V	18.2/9.1	IE3	H	181	265	230	300	Yes	20MDM-3-7.5-18P	1,648.00	9,13,18,20,23		
	1800	132S	89.5	79	230/460V	19.6/9.8	IE2	H	156	215	180	250	Yes	20MDM-3-7.5-18/R	1,426.00	13,18,20,23◆			
		132S	91.7	83	230/460V	18.2/9.1	IE3	H	181	215	180	250	Yes	20MDM-3-7.5-18P/R	1,648.00	9,13,18,20,23			
		10	7.5	3600	132S	90.2	91	230/460V	23/11.5	IE3	N	156	265	230	300	Yes	20MDM-3-10-36	1,419.00	13,18,20,23◆
					132S	90.2	89	230/460V	23.4/11.7	IE3	N	183	265	230	300	Yes	20MDM-3-10-36P	1,640.00	9,13,18,20,23
					132S	90.2	91	230/460V	23/11.5	IE3	N	156	215	180	250	Yes	20MDM-3-10-36/R	1,419.00	13,18,20,23◆
					132S	90.2	89	230/460V	23.4/11.7	IE3	N	183	215	180	250	Yes	20MDM-3-10-36P/R	1,640.00	9,13,18,20,23
132M	89.5				80	230/460V	26.2/13.1	IE2	H	162	265	230	300	Yes	20MDM-3-10-18	1,638.00	13,18,20,23◆		
132M	91.7				79	230/460V	25.8/12.9	IE3	H	190	265	230	300	Yes	20MDM-3-10-18P	1,893.00	9,13,18,20,23		
1800	132M	89.5	80	230/460V	26.2/13.1	IE2	H	162	215	180	250	Yes	20MDM-3-10-18/R	1,638.00	13,18,20,23◆				
	132M	91.7	79	230/460V	25.8/12.9	IE3	H	190	215	180	250	Yes	20MDM-3-10-18P/R	1,893.00	9,13,18,20,23				
	1200	160M	91	81	230/460V	25.8/12.9	IE3	H	295	300	250	350	Yes	20MDM-3-10-12P	3,194.00	9,13,18,20,23			
		160M	91	81	230/460V	25.8/12.9	IE3	H	295	265	230	300	Yes	20MDM-3-10-12P/R	3,194.00	9,13,18,20,23			
	15	11	3600	160M	91	86	230/460V	35.2/17.6	IE3	N	212	300	250	350	-	20MDM-3-15-36	1,978.00	18,20,23◆	
				160M	91	90	230/460V	33.8/16.9	IE3	N	271	300	250	350	Yes	20MDM-3-15-36P	2,286.00	9,13,18,20,23	
160M				91	86	230/460V	35.2/17.6	IE3	N	212	265	230	300	-	20MDM-3-15-36/R	1,978.00	18,20,23◆		
160M				91	90	230/460V	33.8/16.9	IE3	N	271	265	230	300	Yes	20MDM-3-15-36P/R	2,286.00	9,13,18,20,23		
160M				91	80	230/460V	38/19	IE2	H	234	300	250	350	-	20MDM-3-15-18	2,030.00	18,20,23◆		
160M				92.4	83	230/460V	36/18	IE3	H	300	300	250	350	Yes	20MDM-3-15-18P	2,344.00	9,13,18,20,23		
1800			160M	91	80	230/460V	38/19	IE2	H	234	265	230	300	-	20MDM-3-15-18/R	2,030.00	18,20,23◆		
			160M	92.4	83	230/460V	36/18	IE3	H	300	265	230	300	Yes	20MDM-3-15-18P/R	2,344.00	9,13,18,20,23		
			1200	160L	90.2	82	230/460V	37.4/18.7	IE2	H	276	300	250	350	-	20MDM-3-15-12	3,281.00	18,20,23◆	
				160L	91.7	79	230/460V	38/19	IE3	H	322	300	250	350	Yes	20MDM-3-15-12P	3,790.00	9,13,18,20,23	
20	15	3600	160L	90.2	82	230/460V	37.4/18.7	IE2	H	276	265	230	300	-	20MDM-3-15-12/R	3,281.00	18,20,23◆		
			160L	91.7	79	230/460V	38/19	IE3	H	322	265	230	300	Yes	20MDM-3-15-12P/R	3,790.00	9,13,18,20,23		
			160M	91	89	230/460V	46.4/23.2	IE3	N	227	300	250	350	-	20MDM-3-20-36	2,344.00	18,20,23◆		
			160M	91	90	230/460V	46/23	IE3	N	291	300	250	350	Yes	20MDM-3-20-36P	2,708.00	9,13,18,20,23		
			160M	91	89	230/460V	46.4/23.2	IE3	N	227	265	230	300	-	20MDM-3-20-36/R	2,344.00	18,20,23◆		
			160M	91	90	230/460V	46/23	IE3	N	291	265	230	300	Yes	20MDM-3-20-36P/R	2,708.00	9,13,18,20,23		
		1800	160L	91	80	230/460V	51.8/25.9	IE2	H	278	300	250	350	-	20MDM-3-20-18	2,437.00	18,20,23◆		
			160L	93	82	230/460V	49.4/24.7	IE3	H	340	300	250	350	Yes	20MDM-3-20-18P	2,816.00	9,13,18,20,23		
			160L	91	80	230/460V	51.8/25.9	IE2	H	278	265	230	300	-	20MDM-3-20-18/R	2,437.00	18,20,23◆		
			160L	93	82	230/460V	49.4/24.7	IE3	H	340	265	230	300	Yes	20MDM-3-20-18P/R	2,816.00	9,13,18,20,23		
			1200	180L	90.2	81	230/460V	51.6/25.8	IE2	H	375	300	250	350	-	20MDM-3-20-12	3,948.00	18,20,23◆	
				180L	91.7	80	230/460V	51.4/25.7	IE3	H	437	300	250	350	Yes	20MDM-3-20-12P	4,561.00	9,13,18,20,23	
25	18.5	3600	160L	91.7	90	230/460V	56.2/28.1	IE3	N	260	300	250	350	-	20MDM-3-25-36	2,827.00	18,20,23◆		
			160L	91.7	90	230/460V	56.2/28.1	IE3	N	306	300	250	350	Yes	20MDM-3-25-36P	3,266.00	9,13,18,20,23		
			160L	91.7	90	230/460V	56.2/28.1	IE3	N	260	265	230	300	-	20MDM-3-25-36/R	2,827.00	18,20,23◆		
			160L	91.7	90	230/460V	56.2/28.1	IE3	N	306	265	230	300	Yes	20MDM-3-25-36P/R	3,266.00	9,13,18,20,23		
			180M	92.4	85	230/460V	59.2/29.6	IE2	H	373	300	250	350	-	20MDM-3-25-18	2,971.00	18,20,23◆		
			180M	93.6	84	230/460V	59/29.5	IE3	H	419	300	250	350	Yes	20MDM-3-25-18P	3,432.00	9,13,18,20,23		
		1200	200L	92	77	230/460V	66/33	IE2	H	624	400	350	300	-	20MDM-3-25-12	6,371.00	16,18,20,23◆		
			200L	93	80	230/460V	62/31	IE3	H	628	400	350	300	-	20MDM-3-25-12P	7,360.00	16,18,20,23		

**NEW PRODUCT**

**Performance Data & Mounting Dimensions: 92 - 104**

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.

(a) See notes on inside back cover.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rollled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

### Metric IEC Frame, IEC AC 3PH, B35 D-Flange

0.08-270 HP

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Dim M	Flange Dim N	Flange Dim P	Removable Feet	D-Flange B35 Part Number	List Price	Notes (a)		
30	22	3600	180M	91.7	87	230/460V	69.2/34.6	IE3	N	345	300	250	350	–	20MDM-3-30-36	3,412.00	18,20,23◆		
			180M	91.7	89	230/460V	67.6/33.8	IE3	N	419	300	250	350	Yes	20MDM-3-30-36P	3,941.00	9,13,18,20,23		
			180L	92.4	86	230/460V	69.4/34.7	IE2	H	397	300	250	350	–	20MDM-3-30-18	3,702.00	18,20,23◆		
			180L	93.6	82	230/460V	72/36	IE3	H	441	300	250	350	Yes	20MDM-3-30-18P	4,277.00	9,13,18,20,23		
			200L	92.1	79	230/460V	76/38	IE2	H	648	400	350	300	–	20MDM-3-30-12	6,705.00	16,18,20,23◆		
			200L	93	81	230/460V	73/36.5	IE3	H	681	400	350	300	–	20MDM-3-30-12P	7,743.00	16,18,20,23		
		40	30	3600	200L	92.4	90	230/460V	90/45	IE3	N	585	400	350	300	–	20MDM-3-40-36	7,930.00	16,18,20,23◆
					200L	92.4	90	230/460V	91/45	IE3	N	606	400	350	300	–	20MDM-3-40-36P	9,285.00	16,18,20,23
					200L	93.4	87	230/460V	92/46	IE2	H	628	400	350	300	–	20MDM-3-40-18	6,520.00	16,18,20,23◆
					200L	94.3	89	230/460V	90/45	IE3	H	725	400	350	300	–	20MDM-3-40-18P	7,531.00	16,18,20,23
225M	93				81	230/460V	100/50	IE2	H	836	450	400	350	–	20MDM-3-40-12	8,668.00	16,18,20,23◆		
225M	94.1				82	230/460V	98/49	IE3	H	864	450	400	350	–	20MDM-3-40-12P	10,011.00	9,16,18,20,23		
50	37	3600	200L	93	88	230/460V	114/57	IE3	N	624	400	350	300	–	20MDM-3-50-36	8,730.00	16,18,20,23◆		
			200L	93	89	230/460V	112/56	IE3	N	650	400	350	300	–	20MDM-3-50-36P	10,083.00	16,18,20,23		
			225S	93.7	87	230/460V	114/57	IE2	H	811	450	400	350	–	20MDM-3-50-18	8,356.00	16,18,20,23◆		
			225S	94.7	87	230/460V	113/56	IE3	H	822	450	400	350	–	20MDM-3-50-18P	9,652.00	9,16,18,20,23		
			250M	93	81	230/460V	124/62	IE2	H	1010	550	500	450	–	20MDM-3-50-12	10,854.00	16,18,20,23◆		
			250M	94.1	81	230/460V	122/61	IE3	H	970	550	500	450	–	20MDM-3-50-12P	12,537.00	16,18,20,23		
		60	45	3600	225M	93.6	87	230/460V	138/69	IE3	N	838	450	400	350	–	20MDM-3-60-36	9,628.00	16,18,20,23◆
					225M	94.2	87	230/460V	138/69	IE3	N	849	450	400	350	–	20MDM-3-60-36P	11,120.00	9,16,18,20,23
					225M	93.9	87	230/460V	138/69	IE2	H	871	450	400	350	–	20MDM-3-60-18	9,479.00	16,18,20,23◆
					225M	95.1	88	230/460V	135/67	IE3	H	904	450	400	350	–	20MDM-3-60-18P	10,949.00	9,16,18,20,23
75	55	1200	280S	93.7	83	230/460V	146/73	IE2	H	1504	550	500	450	–	20MDM-3-60-12	14,710.00	16,18,20,23◆		
			280S	94.5	82	230/460V	146/73	IE3	H	1400	550	500	450	–	20MDM-3-60-12P	16,991.00	9,16,18,20,23		
			250M	94.2	90	230/460V	163/81	IE3	N	1091	550	500	450	–	20MDM-3-75-36P	14,549.00	16,18,20,23		
			250M	94.1	89	230/460V	164/82	IE2	H	1054	550	500	450	–	20MDM-3-75-18	10,577.00	16,18,20,23◆		
			250M	95.4	90	230/460V	161/80	IE3	H	1147	550	500	450	–	20MDM-3-75-18P	12,218.00	16,18,20,23		
			280M	94.2	81	230/460V	182/91	IE2	H	1638	550	500	450	–	20MDM-3-75-12	15,740.00	16,18,20,23◆		
100	75	3600	280M	94.7	80	230/460V	182/91	IE3	H	1532	550	500	450	–	20MDM-3-75-12P	18,180.00	9,16,18,20,23		
			280S	94.1	90	230/460V	222/111	IE3	N	1444	550	500	450	–	20MDM-3-100-36	13,955.00	16,18,20,23◆		
			280S	94.4	89	230/460V	224/112	IE3	N	1455	550	500	450	–	20MDM-3-100-36P	16,118.00	9,16,18,20,23		
			280S	95	89	230/460V	224/112	IE2	H	1495	550	500	450	–	20MDM-3-100-18	13,909.00	16,18,20,23◆		
			280S	95.4	90	230/460V	219/110	IE3	H	1566	550	500	450	–	20MDM-3-100-18P	16,065.00	9,16,18,20,23		
			315S	94.5	81	230/460V	246/123	IE2	H	2168	660	600	550	–	20MDM-3-100-12	21,662.00	16,18,20,23◆		
		125	90	1200	315S	95	82	230/460V	242/121	IE3	H	1985	660	600	550	–	20MDM-3-100-12P	25,019.00	9,16,18,20,23
					280M	95	90	230/460V	264/132	IE3	N	1550	550	500	450	–	20MDM-3-125-36	16,999.00	16,18,20,23◆
					280M	95	90	230/460V	264/132	IE3	N	1521	550	500	450	–	20MDM-3-125-36P	19,634.00	9,16,18,20,23
					280M	95.3	89	230/460V	264/132	IE2	H	1543	550	500	450	–	20MDM-3-125-18	15,015.00	16,18,20,23◆
150	110	1800	280M	95.6	90	230/460V	263/131	IE3	H	1678	550	500	450	–	20MDM-3-125-18P	17,343.00	9,16,18,20,23		
			315M	95.2	83	230/460V	286/143	IE3	H	2128	660	600	550	–	20MDM-3-125-12P	27,820.00	9,16,18,20,23		
			315S	95	90	230/460V	322/161	IE2	H	1995	660	600	550	–	20MDM-3-150-18	21,345.00	16,18,20,23◆		
			315S	95.8	90	230/460V	320/160	IE3	H	2029	660	600	550	–	20MDM-3-150-18P	24,654.00	9,16,18,20,23		
			315M	95.4	90	230/460V	386/193	IE2	H	2310	660	600	550	–	20MDM-3-175-18	29,706.00	16,18,20,23◆		
			315M	96.2	90	230/460V	383/191	IE3	H	2271	660	600	550	–	20MDM-3-175-18P	34,310.00	9,16,18,20,23		
220	160	1800	315M	95.5	90	230/460V	468/234	IE2	H	2310	660	600	550	–	20MDM-3-220-18	29,706.00	16,18,20,23◆		
			315M	96.2	90	230/460V	464/232	IE3	H	2492	660	600	550	–	20MDM-3-220-18P	34,310.00	9,16,18,20,23		
			270	200	1800	315M	96.2	89	230/460V	586/293	IE3	H	2657	660	600	550	–	20MDM-3-270-18P	42,118.00

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

Metric IEC Frame, IEC AC 3PH, B35 D-Flange, 230/460V, 575V 0.08-270 HP

575V MOTORS †																	
HP	KW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange M	Dim N	Removable Feet	575V D-Flange B35 Part Number	List Price	Notes (a)	
4	3	1200	132S	87.5	76	575V	4.6	IE2	H	120	265	230	300	Yes	20MDM-3-4-12/575	1,742.00	13,18,32◆
			132S	89.5	79	575V	4.2	IE3	H	161	265	230	300	Yes	20MDM-3-4-12P/575	2,001.00	9,13,18,32
			132S	87.5	76	575V	4.6	IE2	H	120	215	180	250	Yes	20MDM-3-4-12/R/575	1,742.00	13,18,32◆
			132S	89.5	79	575V	4.2	IE3	H	161	215	180	250	Yes	20MDM-3-4-12P/R/575	2,001.00	9,13,18,32
5.5	4	1200	132M	87.5	76	575V	6	IE2	H	146	265	230	300	Yes	20MDM-3-5.5-12/575	1,752.00	13,18,32◆
			132M	89.5	80	575V	5.6	IE3	H	179	265	230	300	Yes	20MDM-3-5.5-12P/575	2,012.00	9,13,18,32
			132M	87.5	76	575V	6	IE2	H	146	215	180	250	Yes	20MDM-3-5.5-12/R/575	1,752.00	13,18,32◆
			132M	89.5	80	575V	5.6	IE3	H	179	215	180	250	Yes	20MDM-3-5.5-12P/R/575	2,012.00	9,13,18,32
7.5	5.5	3600	132S	89.5	88	575V	7.04	IE3	N	132	265	230	300	Yes	20MDM-3-7.5-36/575	1,363.00	13,18,32◆
			132S	89.5	87	575V	7.1	IE3	N	163	265	230	300	Yes	20MDM-3-7.5-36P/575	1,563.00	9,13,18,32
			132S	89.5	88	575V	7.04	IE3	N	132	215	180	250	Yes	20MDM-3-7.5-36/R/575	1,363.00	13,18,32◆
			132S	89.5	87	575V	7.1	IE3	N	163	215	180	250	Yes	20MDM-3-7.5-36P/R/575	1,563.00	9,13,18,32
	1800	132S	89.5	79	575V	7.8	IE2	H	156	265	230	300	Yes	20MDM-3-7.5-18/575	1,535.00	13,18,32◆	
		132S	91.7	83	575V	7.3	IE3	H	181	265	230	300	Yes	20MDM-3-7.5-18P/575	1,762.00	9,13,18,32	
		132S	89.5	79	575V	7.8	IE2	H	156	215	180	250	Yes	20MDM-3-7.5-18/R/575	1,535.00	13,18,32◆	
		132S	91.7	83	575V	7.3	IE3	H	181	215	180	250	Yes	20MDM-3-7.5-18P/R/575	1,762.00	9,13,18,32	
10	7.5	3600	132S	90.2	91	575V	9.2	IE3	N	156	265	230	300	Yes	20MDM-3-10-36/575	1,528.00	13,18,32◆
			132S	90.2	89	575V	9.4	IE3	N	183	265	230	300	Yes	20MDM-3-10-36P/575	1,754.00	9,13,18,32
			132S	90.2	91	575V	9.2	IE3	N	156	215	180	250	Yes	20MDM-3-10-36/R/575	1,528.00	13,18,32◆
			132S	90.2	89	575V	9.4	IE3	N	183	215	180	250	Yes	20MDM-3-10-36P/R/575	1,754.00	9,13,18,32
	1800	132M	89.5	80	575V	10.5	IE2	H	162	265	230	300	Yes	20MDM-3-10-18/575	1,747.00	13,18,32◆	
		132M	91.7	79	575V	10.3	IE3	H	190	265	230	300	Yes	20MDM-3-10-18P/575	2,007.00	9,13,18,32	
		132M	89.5	80	575V	10.5	IE2	H	162	215	180	250	Yes	20MDM-3-10-18/R/575	1,747.00	13,18,32◆	
		132M	91.7	79	575V	10.3	IE3	H	190	215	180	250	Yes	20MDM-3-10-18P/R/575	2,007.00	9,13,18,32	
15	11	1200	160M	91	81	575V	10.3	IE3	H	295	300	250	350	Yes	20MDM-3-10-12P/575	3,308.00	9,13,18,32
			160M	91	81	575V	10.3	IE3	H	295	265	230	300	Yes	20MDM-3-10-12P/R/575	3,308.00	9,13,18,32
			160M	91	86	575V	14.1	IE3	N	212	300	250	350	–	20MDM-3-15-36/575	2,087.00	18,32◆
			160M	91	90	575V	13.5	IE3	N	271	300	250	350	Yes	20MDM-3-15-36P/575	2,286.00	9,13,18,32
	1800	160M	91	86	575V	14.1	IE3	N	212	265	230	300	–	20MDM-3-15-36/R/575	2,087.00	18,32◆	
		160M	91	90	575V	13.5	IE3	N	271	265	230	300	Yes	20MDM-3-15-36P/R/575	2,401.00	9,13,18,32	
		160M	91	80	575V	15.2	IE2	H	234	300	250	350	–	20MDM-3-15-18/575	2,139.00	18,32◆	
		160M	92.4	83	575V	14.4	IE3	H	300	300	250	350	Yes	20MDM-3-15-18P/575	2,459.00	9,13,18,32	
1200	160M	91	80	575V	15.2	IE2	H	234	265	230	300	–	20MDM-3-15-18/R/575	2,139.00	18,32◆		
	160M	92.4	83	575V	14.4	IE3	H	300	265	230	300	Yes	20MDM-3-15-18P/R/575	2,459.00	9,13,18,32		
	160L	90.2	82	575V	15	IE2	H	276	300	250	350	–	20MDM-3-15-12/575	3,390.00	18,32◆		
	160L	91.7	79	575V	15.2	IE3	H	322	300	250	350	Yes	20MDM-3-15-12P/575	3,904.00	9,13,18,32		
160L	90.2	82	575V	15	IE2	H	276	265	230	300	–	20MDM-3-15-12/R/575	3,390.00	18,32◆			
160L	91.7	79	575V	15.2	IE3	H	322	265	230	300	Yes	20MDM-3-15-12P/R/575	3,904.00	9,13,18,32			

NEW PRODUCT

Performance Data & Mounting Dimensions: 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

### Metric IEC Frame, IEC AC 3PH, B35 D-Flange, 575V

### 4-270 HP

575V MOTORS †																	
HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange M	Dim N	Removable Feet	575V D-Flange B35 Part Number	List Price	Notes (a)	
20	15	3600	160M	91	89	575V	18.6	IE3	N	227	300	250	350	-	20MDM-3-20-36/575	2,453.00	18,32 ♦
			160M	91	90	575V	18.4	IE3	N	291	300	250	350	Yes	20MDM-3-20-36P/575	2,822.00	9,13,18,32
			160M	91	89	575V	18.6	IE3	N	227	265	230	300	-	20MDM-3-20-36R/575	2,453.00	18,32 ♦
			160M	91	90	575V	18.4	IE3	N	291	265	230	300	Yes	20MDM-3-20-36R/575	2,822.00	9,13,18,32
			160L	91	80	575V	20.7	IE2	H	278	300	250	350	-	20MDM-3-20-18/575	2,546.00	18,32 ♦
			160L	93	82	575V	19.8	IE3	H	340	300	250	350	Yes	20MDM-3-20-18P/575	2,930.00	9,13,18,32
		1800	160L	91	80	575V	20.7	IE2	H	278	265	230	300	-	20MDM-3-20-18R/575	2,546.00	18,32 ♦
			160L	93	82	575V	19.8	IE3	H	340	265	230	300	Yes	20MDM-3-20-18P/575	2,930.00	9,13,18,32
			180L	90.2	81	575V	20.6	IE2	H	375	300	250	350	-	20MDM-3-20-12/575	4,057.00	18,32 ♦
			180L	91.7	80	575V	20.6	IE3	H	437	300	250	350	Yes	20MDM-3-20-12P/575	4,675.00	9,13,18,32
			160L	91.7	90	575V	22.5	IE3	N	260	300	250	350	-	20MDM-3-25-36/575	2,936.00	18,32 ♦
			160L	91.7	90	575V	22.5	IE3	N	306	300	250	350	Yes	20MDM-3-25-36P/575	3,380.00	9,13,18,32
25	18.5	3600	160L	91.7	90	575V	22.5	IE3	N	260	265	230	300	-	20MDM-3-25-36R/575	2,936.00	18,32 ♦
			160L	91.7	90	575V	22.5	IE3	N	306	265	230	300	Yes	20MDM-3-25-36P/575	3,380.00	9,13,18,32
			180M	92.4	85	575V	23.7	IE2	H	373	300	250	350	-	20MDM-3-25-18/575	3,080.00	18,32 ♦
		1800	180M	93.6	84	575V	23.6	IE3	H	419	300	250	350	Yes	20MDM-3-25-18P/575	3,546.00	9,13,18,32
			200L	92	77	575V	26.4	IE2	H	624	400	350	300	-	20MDM-3-25-12/575	6,480.00	16,18,32 ♦
			200L	93	80	575V	25	IE3	H	628	400	350	300	-	20MDM-3-25-12P/575	7,474.00	16,18,32
30	22	3600	180M	91.7	87	575V	27.7	IE3	N	345	300	250	350	-	20MDM-3-30-36/575	3,521.00	18,32 ♦
			180M	91.7	89	575V	27	IE3	N	419	300	250	350	Yes	20MDM-3-30-36P/575	4,056.00	9,13,18,32
			180L	92.4	86	575V	27.8	IE2	H	397	300	250	350	-	20MDM-3-30-18/575	3,811.00	18,32 ♦
			180L	93.6	82	575V	28.8	IE3	H	441	300	250	350	Yes	20MDM-3-30-18P/575	4,392.00	9,13,18,32
			200L	92.1	79	575V	30.4	IE2	H	648	400	350	300	-	20MDM-3-30-12/575	6,814.00	16,18,32 ♦
			200L	93	81	575V	29.3	IE3	H	681	400	350	300	-	20MDM-3-30-12P/575	7,858.00	16,18,32
		1800	200L	92.4	90	575V	36	IE3	N	585	400	350	300	-	20MDM-3-40-36/575	8,039.00	16,18,32 ♦
			200L	92.4	90	575V	36	IE3	N	606	400	350	300	-	20MDM-3-40-36P/575	9,399.00	16,18,32
			200L	93.4	87	575V	36.8	IE2	H	628	400	350	300	-	20MDM-3-40-18/575	6,629.00	16,18,32 ♦
			200L	94.3	89	575V	36	IE3	H	725	400	350	300	-	20MDM-3-40-18P/575	7,646.00	16,18,32
			225M	93	81	575V	40	IE2	H	836	450	400	350	-	20MDM-3-40-12/575	8,777.00	16,18,32 ♦
			225M	94.1	82	575V	39	IE3	H	864	450	400	350	-	20MDM-3-40-12P/575	10,126.00	9,16,18,32
50	37	3600	200L	93	88	575V	45.6	IE3	N	624	400	350	300	-	20MDM-3-50-36/575	8,839.00	16,18,32 ♦
			200L	93	89	575V	45	IE3	N	650	400	350	300	-	20MDM-3-50-36P/575	10,197.00	16,18,32
			225S	93.7	87	575V	45.6	IE2	H	811	450	400	350	-	20MDM-3-50-18/575	8,465.00	16,18,32 ♦
			225S	94.7	87	575V	45	IE3	H	822	450	400	350	-	20MDM-3-50-18P/575	9,767.00	9,16,18,32
			250M	93	81	575V	49.6	IE2	H	1010	550	500	450	-	20MDM-3-50-12/575	10,963.00	16,18,32 ♦
			250M	94.1	81	575V	49	IE3	H	970	550	500	450	-	20MDM-3-50-12P/575	12,652.00	16,18,32
		1800	225M	93.6	87	575V	55.2	IE3	N	838	450	400	350	-	20MDM-3-60-36/575	9,737.00	16,18,32 ♦
			225M	94.2	87	575V	55	IE3	N	849	450	400	350	-	20MDM-3-60-36P/575	11,234.00	9,16,18,32
			225M	93.9	87	575V	55.2	IE2	H	871	450	400	350	-	20MDM-3-60-18/575	9,588.00	16,18,32 ♦
			225M	95.1	88	575V	54	IE3	H	904	450	400	350	-	20MDM-3-60-18P/575	11,063.00	9,16,18,32
			280S	93.7	83	575V	58.4	IE2	H	1504	550	500	450	-	20MDM-3-60-12/575	14,819.00	16,18,32 ♦
			280S	94.5	82	575V	58	IE3	H	1400	550	500	450	-	20MDM-3-60-12P/575	17,105.00	9,16,18,32
75	55	3600	250M	94.2	90	575V	65	IE3	N	1091	550	500	450	-	20MDM-3-75-36P/575	14,664.00	16,18,32
			250M	94.1	89	575V	65.6	IE2	H	1054	550	500	450	-	20MDM-3-75-18/575	10,686.00	16,18,32 ♦
			250M	95.4	90	575V	64	IE3	H	1147	550	500	450	-	20MDM-3-75-18P/575	12,333.00	16,18,32
		1800	280M	94.2	81	575V	72.8	IE2	H	1638	550	500	450	-	20MDM-3-75-12/575	15,849.00	16,18,32 ♦
			280M	94.7	80	575V	73	IE3	H	1532	550	500	450	-	20MDM-3-75-12P/575	18,295.00	9,16,18,32

**NEW PRODUCT**

**Performance Data & Mounting Dimensions:** 92 - 104

♦ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

Metric IEC Frame, IEC AC 3PH, B35 D-Flange, 575V

4-270 HP

575V MOTORS †																	
HP	KW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange M	Dim N	Dim P	Removable Feet	575V D-Flange B35 Part Number	List Price	Notes (a)
100	75	3600	280S	94.1	90	575V	88.8	IE3	N	1444	550	500	450	–	20MDM-3-100-36/575	14,064.00	16,18,32◆
			280S	94.4	89	575V	90	IE3	N	1455	550	500	450	–	20MDM-3-100-36P/575	16,232.00	9,16,18,32
		1800	280S	95	89	575V	89.6	IE2	H	1495	550	500	450	–	20MDM-3-100-18/575	14,018.00	16,18,32◆
			280S	95.4	90	575V	88	IE3	H	1566	550	500	450	–	20MDM-3-100-18P/575	16,180.00	9,16,18,32
		1200	315S	94.5	81	575V	98.4	IE2	H	2168	660	600	550	–	20MDM-3-100-12/575	21,771.00	16,18,32◆
			315S	95	82	575V	97	IE3	H	1985	660	600	550	–	20MDM-3-100-12P/575	25,133.00	9,16,18,32
125	90	3600	280M	95	90	575V	105.6	IE3	N	1550	550	500	450	–	20MDM-3-125-36/575	17,108.00	16,18,32◆
			280M	95	90	575V	106	IE3	N	1521	550	500	450	–	20MDM-3-125-36P/575	19,749.00	9,16,18,32
		1800	280M	95.3	89	575V	105.6	IE2	H	1543	550	500	450	–	20MDM-3-125-18/575	15,124.00	16,18,32◆
			280M	95.6	90	575V	105	IE3	H	1678	550	500	450	–	20MDM-3-125-18P/575	17,458.00	9,16,18,32
		1200	315M	95.2	83	575V	114	IE3	H	2128	660	600	550	–	20MDM-3-125-12P/575	27,935.00	9,16,18,32
			315M	95.2	83	575V	114	IE3	H	2128	660	600	550	–	20MDM-3-125-12P/575	27,935.00	9,16,18,32
150	110	1800	315S	95	90	575V	128.8	IE2	H	1995	660	600	550	–	20MDM-3-150-18/575	21,454.00	16,18,32◆
			315S	95.8	90	575V	128	IE3	H	2029	660	600	550	–	20MDM-3-150-18P/575	24,769.00	9,16,18,32
175	132	1800	315M	95.4	90	575V	155	IE2	H	2310	660	600	550	–	20MDM-3-175-18/575	29,815.00	16,18,32◆
			315M	96.2	90	575V	153	IE3	H	2271	660	600	550	–	20MDM-3-175-18P/575	34,425.00	9,16,18,32
220	160	1800	315M	95.5	90	575V	188	IE2	H	2310	660	600	550	–	20MDM-3-220-18/575	29,815.00	16,18,32◆
			315M	96.2	90	575V	186	IE3	H	2492	660	600	550	–	20MDM-3-220-18P/575	34,425.00	9,16,18,32
270	200	1800	315M	96.2	89	575V	235	IE3	H	2657	660	600	550	–	20MDM-3-270-18P/575	42,233.00	9,16,18,32

NEW PRODUCT

Performance Data & Mounting Dimensions: 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

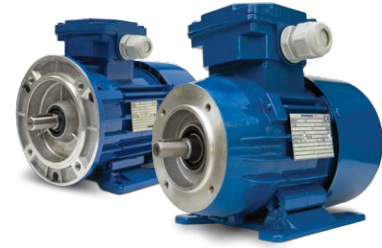
† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

General Information

### Metric IEC Frame Motors – 0.08-25 HP

3PH TEFC 60/50 Hz AC B34 & B34/1 C-Face Motors



Premium Efficient Motors

**Applications:** Designed to meet international standards as replacement motors for overseas applications and machinery such as pumps, conveyors, fans and more.

Severe & Crusher Duty Motors

#### Features

- Inverter Duty Rated: 5:1CT & 10:1VT at 460V 60 Hz
- Service Factor: up to 1.2 at 460V 60 Hz
- Design: "N" or "H"
- Protection Degree: IP55
- Enclosure: TEFC
- High lock rotor torque
- VPI process applied for best electrical performance
- IEC132 frame and larger suitable for Y/Delta starting
- Electromagnetic compatibility standards: EN 50081-1(2) and EN 50082-1(2)
- Nameplate rated 230/460V 60 Hz and 380/400V 50 Hz
- 575V and other ratings available upon request
- Oversized ball bearings on both ends for direct coupling
- Class "F" insulation
- Junction box equipped with glands
- F3 mounting position
- Drilled and tapped end shaft
- Drain plugs
- Bidirectional fan
- All motors provided with CE mark
- Warranty: 3-Years

Metric IEC Motors

Rolled Steel Motors

#### STANDARD C-FLANGE

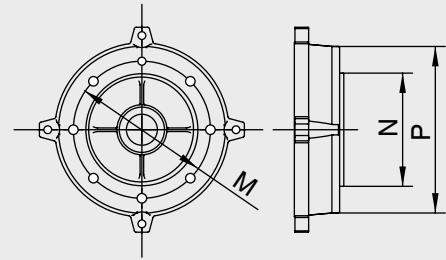


B14 Flange on 20MCM-3-3-18 footed motor

#### INCREASED C-FLANGE



B14/1 Increased C-Flange denoted by /1 suffix



Stainless Steel Washdown Motors

Pump Motors

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Size M N P	Removable Feet	C-Face Part Number	List Price	Notes (a)
0.08	0.06	1800	56	55	66	230/460V	0.44/0.22	IE1	–	5.9	65 50 80	Yes	40MCM-3-.08-18	231.00	13,17,19
			56	55	66	230/460V	0.44/0.22	IE1	–	5.9	85 70 105	Yes	40MCM-3-.08-18/1	231.00	13,17,19
0.12	0.09	3600	56	58	75	230/460V	0.56/0.28	IE1	–	6.6	65 50 80	Yes	40MCM-3-.12-36	239.00	13,17,19
			56	58	75	230/460V	0.56/0.28	IE1	–	6.6	85 70 105	Yes	40MCM-3-.12-36/1	239.00	13,17,19
0.12	0.09	1800	56	61	65	230/460V	0.6/0.3	IE1	–	6.4	65 50 80	Yes	40MCM-3-.12-18	239.00	13,17,19
			56	61	65	230/460V	0.6/0.3	IE1	–	6.4	85 70 105	Yes	40MCM-3-.12-18/1	239.00	13,17,19
0.17	0.12	3600	56	63	83	230/460V	0.6/0.3	IE1	–	7.5	65 50 80	Yes	40MCM-3-.17-36	243.00	13,17,19
			56	63	83	230/460V	0.6/0.3	IE1	–	7.5	85 70 105	Yes	40MCM-3-.17-36/1	243.00	13,17,19
0.17	0.12	1800	63	64	72	230/460V	0.7/0.35	IE1	–	7.9	75 60 90	Yes	40MCM-3-.17-18	247.00	13,17,19
			63	64	72	230/460V	0.7/0.35	IE1	–	7.9	100 80 120	Yes	40MCM-3-.17-18/1	247.00	13,17,19
0.25	0.18	3600	63	65	80	230/460V	1/0.5	IE1	–	7.9	75 60 90	Yes	40MCM-3-.25-36	249.00	13,17,19
			63	65	80	230/460V	1/0.5	IE1	–	7.9	100 80 120	Yes	40MCM-3-.25-36/1	249.00	13,17,19
0.25	0.18	1800	63	64	70	230/460V	1.1/0.55	IE1	–	9.3	75 60 90	Yes	40MCM-3-.25-18	256.00	13,17,19
			63	64	70	230/460V	1.1/0.55	IE1	–	9.3	100 80 120	Yes	40MCM-3-.25-18/1	256.00	13,17,19
0.25	0.18	1200	71	57	68	230/460V	1.4/0.7	IE1	–	10.8	85 70 105	Yes	40MCM-3-.25-12	289.00	13,17,19
			71	57	68	230/460V	1.4/0.7	IE1	–	10.8	115 95 140	Yes	40MCM-3-.25-12/1	289.00	13,17,19

Brake Motors

Parts and Accessories

Technical Data

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 92 - 104

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.

(a) See notes on inside back cover.

Metric IEC Frame, IEC AC 3PH, B34 & B34/1 C-Face

0.08-25 HP

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Size			Removable Feet	C-Face Part Number	List Price	Notes <sup>(a)</sup>
											M	N	P				
0.33	0.25	3600	63	68	83	230/460V	1.1/0.55	IE1	-	9.3	75	60	90	Yes	40MCM-3-33-36	263.00	13,17,19
			63	68	83	230/460V	1.1/0.55	IE1	-	9.3	100	80	120	Yes	40MCM-3-33-36/1	263.00	13,17,19
		1800	71	66	68	230/460V	1.4/0.7	IE1	-	10.6	85	70	105	Yes	40MCM-3-33-18	263.00	13,17,19
			71	66	68	230/460V	1.4/0.7	IE1	-	10.6	115	95	140	Yes	40MCM-3-33-18/1	263.00	13,17,19
		1200	71	55	70	230/460V	1.8/0.9	IE1	-	12.8	85	70	105	Yes	40MCM-3-33-12	306.00	13,17,19
			71	55	70	230/460V	1.8/0.9	IE1	-	12.8	115	95	140	Yes	40MCM-3-33-12/1	306.00	13,17,19
0.5	0.37	3600	71	71	68	230/460V	1.8/0.9	IE1	-	11.7	85	70	105	Yes	40MCM-3-50-36	281.00	13,17,19
			71	71	68	230/460V	1.8/0.9	IE1	-	11.7	115	95	140	Yes	40MCM-3-50-36/1	281.00	13,17,19
		1800	71	68	68	230/460V	2/1	IE1	-	13	85	70	105	Yes	40MCM-3-50-18	281.00	13,17,19
			71	68	68	230/460V	2/1	IE1	-	13	115	95	140	Yes	40MCM-3-50-18/1	281.00	13,17,19
		1200	80	64	64	230/460V	2.4/1.2	IE1	-	16	100	80	120	Yes	40MCM-3-50-12	370.00	13,17,19
			80	64	64	230/460V	2.4/1.2	IE1	-	16	130	110	160	Yes	40MCM-3-50-12/1	370.00	13,17,19
0.75	0.55	3600	71	75	85	230/460V	2.4/1.2	IE1	-	13.2	85	70	105	Yes	40MCM-3-75-36	306.00	13,17,19
			71	75	85	230/460V	2.4/1.2	IE1	-	13.2	115	95	140	Yes	40MCM-3-75-36/1	306.00	13,17,19
		1800	80	70	72	230/460V	3/1.5	IE1	-	16.5	100	80	120	Yes	40MCM-3-75-18	349.00	13,17,19
			80	70	72	230/460V	3/1.5	IE1	-	16.5	130	110	160	Yes	40MCM-3-75-18/1	349.00	13,17,19
		1200	80	67	72	230/460V	3.2/1.6	IE1	-	19	100	80	120	Yes	40MCM-3-75-12	416.00	13,17,19
			80	67	72	230/460V	3.2/1.6	IE1	-	19	130	110	160	Yes	40MCM-3-75-12/1	416.00	13,17,19
1	0.75	3600	80	74	80	230/460V	3.2/1.6	IE1	-	17.2	100	80	120	Yes	40MCM-3-1-36	364.00	13,17,19◆
			80	82	79	230/460V	3/1.5	IE3	N	23	100	80	120	Yes	20MCM-3-1-36P	470.00	13,17,19
			80	74	80	230/460V	3.2/1.6	IE1	-	17.2	130	110	160	Yes	40MCM-3-1-36/1	364.00	13,17,19◆
			80	82	79	230/460V	3/1.5	IE3	N	23	130	110	160	Yes	20MCM-3-1-36P/1	470.00	13,17,19
			80	75	73	230/460V	3.4/1.7	IE1	-	19.4	100	80	120	Yes	40MCM-3-1-18	339.00	13,17,19◆
			80	83.5	64	230/460V	3.7/1.85	IE3	N	24	100	80	120	Yes	20MCM-3-1-18P	428.00	13,17,19
		1800	80	75	73	230/460V	3.4/1.7	IE1	-	19.4	130	110	160	Yes	40MCM-3-1-18/1	339.00	13,17,19◆
			80	83.5	64	230/460V	3.7/1.85	IE3	N	24	130	110	160	Yes	20MCM-3-1-18P/1	428.00	13,17,19
			90S	80	65	230/460V	3.6/1.8	IE2	H	36.4	115	95	140	Yes	20MCM-3-1-12	716.00	13,14,17,19◆
			90S	82.5	65	230/460V	3.6/1.8	IE3	N	36	115	95	140	Yes	20MCM-3-1-12P	828.00	9,13,14,17,19
			90S	80	65	230/460V	3.6/1.8	IE2	H	36.4	130	110	160	Yes	20MCM-3-1-12/1	716.00	13,14,17,19◆
			90S	82.5	65	230/460V	3.6/1.8	IE3	N	36	130	110	160	Yes	20MCM-3-1-12P/1	828.00	9,13,14,17,19
1.5	1.1	3600	80	77	84	230/460V	4.4/2.2	IE1	-	20.1	100	80	120	Yes	40MCM-3-1.5-36	395.00	13,17,19◆
			80	85.5	77	230/460V	3.8/1.9	IE3	N	26	100	80	120	Yes	20MCM-3-1.5-36P	498.00	13,17,19
			80	77	84	230/460V	4.4/2.2	IE1	-	20.1	130	110	160	Yes	40MCM-3-1.5-36/1	395.00	13,17,19◆
			80	85.5	77	230/460V	3.8/1.9	IE3	N	26	130	110	160	Yes	20MCM-3-1.5-36P/1	498.00	13,17,19
			90S	84	72	230/460V	4.6/2.3	IE2	H	36	115	95	140	Yes	20MCM-3-1.5-18	690.00	13,14,17,19◆
			90S	86.5	73	230/460V	4.4/2.2	IE3	N	40	115	95	140	Yes	20MCM-3-1.5-18P	797.00	9,13,14,17,19
		1800	90S	84	72	230/460V	4.6/2.3	IE2	H	36	130	110	160	Yes	20MCM-3-1.5-18/1	690.00	13,14,17,19◆
			90S	86.5	73	230/460V	4.4/2.2	IE3	N	40	130	110	160	Yes	20MCM-3-1.5-18P/1	797.00	9,13,14,17,19
			90S	85.5	79	230/460V	5.6/2.8	IE3	N	31	115	95	140	Yes	20MCM-3-2-36	671.00	13,14,17,19◆
			90S	85.5	81	230/460V	5.4/2.7	IE3	N	36	115	95	140	Yes	20MCM-3-2-36P	775.00	9,13,14,17,19
			90S	85.5	79	230/460V	5.6/2.8	IE3	N	31	130	110	160	Yes	20MCM-3-2-36/1	671.00	13,14,17,19◆
			90S	85.5	81	230/460V	5.4/2.7	IE3	N	36	130	110	160	Yes	20MCM-3-2-36P/1	775.00	9,13,14,17,19
2	1.5	3600	90L	84	74	230/460V	6/3	IE2	H	42	115	95	140	Yes	20MCM-3-2-18	731.00	13,14,17,19◆
			90L	86.5	77	230/460V	5.6/2.8	IE3	H	46	115	95	140	Yes	20MCM-3-2-18P	845.00	9,13,14,17,19
		1800	90L	84	74	230/460V	6/3	IE2	H	42	130	110	160	Yes	20MCM-3-2-18/1	731.00	13,14,17,19◆
			90L	86.5	77	230/460V	5.6/2.8	IE3	H	46	130	110	160	Yes	20MCM-3-2-18P/1	845.00	9,13,14,17,19

NEW PRODUCT

Performance Data & Mounting Dimensions: 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.

<sup>(a)</sup> See notes on inside back cover.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rollled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

### Metric IEC Frame, IEC AC 3PH, B34 & B34/1 C-Face

### 0.08-25 HP

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Size			Removable Feet	C-Face Part Number	List Price	Notes (a)	
											M	N	P					
3	2.2	3600	90L	86.5	80	230/460V	8/4	IE3	N	38	115	95	140	Yes	20MCM-3-3-36	832.00	13,14,17,19◆	
			90L	86.5	84	230/460V	7.6/3.8	IE3	N	41	115	95	140	Yes	20MCM-3-3-36P	962.00	9,13,14,17,19	
			90L	86.5	80	230/460V	8/4	IE3	N	38	130	110	160	Yes	20MCM-3-3-36/1	832.00	13,14,17,19◆	
		1800	90L	86.5	84	230/460V	7.6/3.8	IE3	N	41	130	110	160	Yes	20MCM-3-3-36P/1	962.00	9,13,14,17,19	
			100L	87.5	79	230/460V	8/4	IE2	H	56	130	110	160	Yes	20MCM-3-3-18	823.00	13,14,17,19◆	
			100L	87.5	79	230/460V	8/4	IE2	H	56	165	130	200	Yes	20MCM-3-3-18/1	823.00	13,14,17,19◆	
4	3	3600	100L	88.5	81	230/460V	10.6/5.3	IE3	N	59	130	110	160	Yes	20MCM-3-4-36	921.00	13,14,17,19◆	
			100L	88.5	82	230/460V	10.4/5.2	IE3	N	55	130	110	160	Yes	20MCM-3-4-36P	1,065.00	13,14,17,19	
			100L	88.5	81	230/460V	10.6/5.3	IE3	N	59	165	130	200	Yes	20MCM-3-4-36/1	921.00	13,14,17,19◆	
			100L	88.5	82	230/460V	10.4/5.2	IE3	N	55	165	130	200	Yes	20MCM-3-4-36P/1	1,065.00	13,14,17,19	
			1800	100L	87.5	74	230/460V	11.6/5.8	IE2	H	66	130	110	160	Yes	20MCM-3-4-18	947.00	13,14,17,19◆
			1800	100L	87.5	74	230/460V	11.6/5.8	IE2	H	66	165	130	200	Yes	20MCM-3-4-18/1	947.00	13,14,17,19◆
		1200	132S	87.5	76	230/460V	11.4/5.7	IE2	H	120	165	130	200	Yes	20MCM-3-4-12	1,633.00	13,18,20,23◆	
			132S	89.5	79	230/460V	10.6/5.3	IE3	H	161	165	130	200	Yes	20MCM-3-4-12P	1,886.00	9,13,18,20,23	
			132S	87.5	76	230/460V	11.4/5.7	IE2	H	120	215	180	250	Yes	20MCM-3-4-12/1	1,633.00	13,18,20,23◆	
			132S	89.5	79	230/460V	10.6/5.3	IE3	H	161	215	180	250	Yes	20MCM-3-4-12P/1	1,886.00	9,13,18,20,23	
			3600	112M	89	85	230/460V	13.2/6.6	IE3	N	74	130	110	160	Yes	20MCM-3-5-5-36	1,012.00	13,14,17,19◆
				112M	88.5	88	230/460V	12.8/6.4	IE3	N	78	130	110	160	Yes	20MCM-3-5-5-36P	1,169.00	13,14,17,19
112M	89	85		230/460V	13.2/6.6	IE3	N	74	165	130	200	Yes	20MCM-3-5-5-36/1	1,012.00	13,14,17,19◆			
112M	88.5	88		230/460V	12.8/6.4	IE3	N	78	165	130	200	Yes	20MCM-3-5-5-36P/1	1,169.00	13,14,17,19			
1800	112M	87.5		78	230/460V	14.8/7.4	IE2	H	78	130	110	160	Yes	20MCM-3-5-5-18	1,010.00	13,14,17,19◆		
1800	112M	89.5		79	230/460V	14.2/7.1	IE3	H	92	130	110	160	Yes	20MCM-3-5-5-18P	1,168.00	13,14,17,19		
5.5	4	1800	112M	87.5	78	230/460V	14.8/7.4	IE2	H	78	165	130	200	Yes	20MCM-3-5-5-18/1	1,010.00	13,14,17,19◆	
			112M	89.5	79	230/460V	14.2/7.1	IE3	H	92	165	130	200	Yes	20MCM-3-5-5-18P/1	1,168.00	13,14,17,19	
			132M	87.5	76	230/460V	15/7.5	IE2	H	146	165	130	200	Yes	20MCM-3-5-5-12	1,643.00	13,18,20,23◆	
			132M	89.5	80	230/460V	14/7	IE3	H	179	165	130	200	Yes	20MCM-3-5-5-12P	1,898.00	9,13,18,20,23	
			132M	87.5	76	230/460V	15/7.5	IE2	H	146	215	180	250	Yes	20MCM-3-5-5-12/1	1,643.00	13,18,20,23◆	
			132M	89.5	80	230/460V	14/7	IE3	H	179	215	180	250	Yes	20MCM-3-5-5-12P/1	1,898.00	9,13,18,20,23	
		1200	132S	89.5	88	230/460V	17.6/8.8	IE3	N	132	165	130	200	Yes	20MCM-3-7-5-36	1,254.00	13,18,20,23◆	
			132S	89.5	87	230/460V	17.8/8.9	IE3	N	163	165	130	200	Yes	20MCM-3-7-5-36P	1,448.00	9,13,18,20,23	
			132S	89.5	88	230/460V	17.6/8.8	IE3	N	132	215	180	250	Yes	20MCM-3-7-5-36/1	1,254.00	13,18,20,23◆	
			132S	89.5	87	230/460V	17.8/8.9	IE3	N	163	215	180	250	Yes	20MCM-3-7-5-36P/1	1,448.00	9,13,18,20,23	
			1800	132S	89.5	79	230/460V	19.6/9.8	IE2	H	156	165	130	200	Yes	20MCM-3-7-5-18	1,426.00	13,18,20,23◆
			1800	132S	91.7	83	230/460V	18.2/9.1	IE3	H	181	165	130	200	Yes	20MCM-3-7-5-18P	1,648.00	9,13,18,20,23
7.5	5.5	1800	132S	89.5	79	230/460V	19.6/9.8	IE2	H	156	215	180	250	Yes	20MCM-3-7-5-18/1	1,426.00	13,18,20,23◆	
			132S	91.7	83	230/460V	18.2/9.1	IE3	H	181	215	180	250	Yes	20MCM-3-7-5-18P/1	1,648.00	9,13,18,20,23	
			132S	90.2	81	230/460V	23/11.5	IE3	N	156	165	130	200	Yes	20MCM-3-10-36	1,419.00	13,18,20,23◆	
			132S	90.2	89	230/460V	23.4/11.7	IE3	N	183	165	130	200	Yes	20MCM-3-10-36P	1,640.00	9,13,18,20,23	
			132S	90.2	91	230/460V	23/11.5	IE3	N	156	215	180	250	Yes	20MCM-3-10-36/1	1,419.00	13,18,20,23◆	
			132S	90.2	89	230/460V	23.4/11.7	IE3	N	183	215	180	250	Yes	20MCM-3-10-36P/1	1,640.00	9,13,18,20,23	
		3600	132M	89.5	80	230/460V	26.2/13.1	IE2	H	162	165	130	200	Yes	20MCM-3-10-18	1,638.00	13,18,20,23◆	
			132M	91.7	79	230/460V	25.8/12.9	IE3	H	190	165	130	200	Yes	20MCM-3-10-18P	1,893.00	9,13,18,20,23	
			132M	89.5	80	230/460V	26.2/13.1	IE2	H	162	215	180	250	Yes	20MCM-3-10-18/1	1,638.00	13,18,20,23◆	
			132M	91.7	79	230/460V	25.8/12.9	IE3	H	190	215	180	250	Yes	20MCM-3-10-18P/1	1,893.00	9,13,18,20,23	
			1200	160M	91	81	230/460V	25.8/12.9	IE3	H	295	215	180	250	Yes	20MCM-3-10-12P	3,194.00	9,13,18,20,23
			1200	160M	91	81	230/460V	25.8/12.9	IE3	H	295	265	230	300	Yes	20MCM-3-10-12P/1	3,194.00	9,13,18,20,23

**NEW PRODUCT**

**Performance Data & Mounting Dimensions:** 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.

(a) See notes on inside back cover.



Metric IEC Frame, IEC AC 3PH, B34 & B34/1 C-Face

0.08-25 HP

HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Size			Removable Feet	C-Face Part Number	List Price	Notes (a)	
											M	N	P					
15	11	1800	160M	91	86	230/460V	35.2/17.6	IE3	N	212	215	180	250	–	20MCM-3-15-36	1,978.00	18,20,23◆	
			160M	91	90	230/460V	33.8/16.9	IE3	N	271	215	180	250	Yes	20MCM-3-15-36P	2,286.00	9,13,18,20,23	
			160M	91	86	230/460V	35.2/17.6	IE3	N	212	265	230	300	–	20MCM-3-15-36/1	1,978.00	18,20,23◆	
			160M	91	90	230/460V	33.8/16.9	IE3	N	271	265	230	300	Yes	20MCM-3-15-36P/1	2,286.00	9,13,18,20,23	
			160M	91	80	230/460V	38/19	IE2	H	234	215	180	250	–	20MCM-3-15-18	2,030.00	18,20,23◆	
			160M	92.4	83	230/460V	36/18	IE3	H	300	215	180	250	Yes	20MCM-3-15-18P	2,344.00	9,13,18,20,23	
	1200	160M	91	80	230/460V	38/19	IE2	H	234	265	230	300	–	20MCM-3-15-18/1	2,030.00	18,20,23◆		
		160M	92.4	83	230/460V	36/18	IE3	H	300	265	230	300	Yes	20MCM-3-15-18P/1	2,344.00	9,13,18,20,23		
		160L	90.2	82	230/460V	37.4/18.7	IE2	H	276	215	180	250	–	20MCM-3-15-12	3,281.00	18,20,23◆		
		160L	91.7	79	230/460V	38/19	IE3	H	322	215	180	250	Yes	20MCM-3-15-12P	3,790.00	9,13,18,20,23		
		160L	90.2	82	230/460V	37.4/18.7	IE2	H	276	265	230	300	–	20MCM-3-15-12/1	3,281.00	18,20,23◆		
		160L	91.7	79	230/460V	38/19	IE3	H	322	265	230	300	Yes	20MCM-3-15-12P/1	3,790.00	9,13,18,20,23		
20	15	3600	160M	91	89	230/460V	46.4/23.2	IE3	N	227	215	180	250	–	20MCM-3-20-36	2,344.00	18,20,23◆	
			160M	91	90	230/460V	46/23	IE3	N	291	215	180	250	Yes	20MCM-3-20-36P	2,708.00	9,13,18,20,23	
			160M	91	89	230/460V	46.4/23.2	IE3	N	227	265	230	300	–	20MCM-3-20-36/1	2,344.00	18,20,23◆	
			160M	91	90	230/460V	46/23	IE3	N	291	265	230	300	Yes	20MCM-3-20-36P/1	2,708.00	9,13,18,20,23	
			160L	91	80	230/460V	51.8/25.9	IE2	H	278	215	180	250	–	20MCM-3-20-18	2,437.00	18,20,23◆	
			160L	93	82	230/460V	49.4/24.7	IE3	H	340	215	180	250	Yes	20MCM-3-20-18P	2,816.00	9,13,18,20,23	
25	3600	160L	91	80	230/460V	51.8/25.9	IE2	H	278	265	230	300	–	20MCM-3-20-18/1	2,437.00	18,20,23◆		
		160L	93	82	230/460V	49.4/24.7	IE3	H	340	265	230	300	Yes	20MCM-3-20-18P/1	2,816.00	9,13,18,20,23		
		160L	91.7	90	230/460V	56.2/28.1	IE3	N	260	215	180	250	–	20MCM-3-25-36	2,594.00	18,20,23◆		
		160L	91.7	90	230/460V	56.2/28.1	IE3	N	260	215	180	250	Yes	20MCM-3-25-36P	3,266.00	9,13,18,20,23		
		160L	91.7	90	230/460V	56.2/28.1	IE3	N	260	265	230	300	–	20MCM-3-25-36/1	2,594.00	18,20,23◆		
		160L	91.7	90	230/460V	56.2/28.1	IE3	N	260	265	230	300	Yes	20MCM-3-25-36P/1	3,266.00	9,13,18,20,23		

575V MOTORS †																		
HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Size			Removable Feet	575V C-Face Part Number	List Price	Notes (a)	
											M	N	P					
4	3	1200	132S	87.5	76	575V	4.6	IE2	H	120	165	130	200	Yes	20MCM-3-4-12/575	1,742.00	13,18,32◆	
			132S	89.5	79	575V	4.2	IE3	H	161	165	130	200	Yes	20MCM-3-4-12P/575	2,001.00	9,13,18,32	
			132S	87.5	76	575V	4.6	IE2	H	120	215	180	250	Yes	20MCM-3-4-12/1/575	1,742.00	13,18,32◆	
			132S	89.5	79	575V	4.2	IE3	H	161	215	180	250	Yes	20MCM-3-4-12P/1/575	2,001.00	9,13,18,32	
5.5	4	1200	132M	87.5	76	575V	6	IE2	H	146	165	130	200	Yes	20MCM-3-5.5-12/575	1,752.00	13,18,32◆	
			132M	89.5	80	575V	5.6	IE3	H	179	165	130	200	Yes	20MCM-3-5.5-12P/575	2,012.00	9,13,18,32	
			132M	87.5	76	575V	6	IE2	H	146	215	180	250	Yes	20MCM-3-5.5-12/1/575	1,752.00	13,18,32◆	
			132M	89.5	80	575V	5.6	IE3	H	179	215	180	250	Yes	20MCM-3-5.5-12P/1/575	2,012.00	9,13,18,32	
7.5	5.5	3600	132S	89.5	88	575V	7.04	IE3	N	132	165	130	200	Yes	20MCM-3-7.5-36/575	1,363.00	13,18,32◆	
			132S	89.5	87	575V	7.1	IE3	N	163	165	130	200	Yes	20MCM-3-7.5-36P/575	1,563.00	9,13,18,32	
			132S	89.5	88	575V	7.04	IE3	N	132	215	180	250	Yes	20MCM-3-7.5-36/1/575	1,363.00	13,18,32◆	
			132S	89.5	87	575V	7.1	IE3	N	163	215	180	250	Yes	20MCM-3-7.5-36P/1/575	1,563.00	9,13,18,32	
			132S	89.5	79	575V	7.8	IE2	H	156	165	130	200	Yes	20MCM-3-7.5-18/575	1,535.00	13,18,32◆	
			132S	91.7	83	575V	7.3	IE3	H	181	165	130	200	Yes	20MCM-3-7.5-18P/575	1,762.00	9,13,18,32	
1800	132S	89.5	79	575V	7.8	IE2	H	156	215	180	250	Yes	20MCM-3-7.5-18/1/575	1,535.00	13,18,32◆			
	132S	91.7	83	575V	7.3	IE3	H	181	215	180	250	Yes	20MCM-3-7.5-18P/1/575	1,762.00	9,13,18,32			

**NEW PRODUCT**

Performance Data & Mounting Dimensions: 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

230/460V 60 Hz Motors are dual rated for 380/400V 50 Hz.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rollled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

### Metric IEC Frame, IEC AC 3PH, B34 & B34/1 C-Face, 575V

### 4-25 HP

575V MOTORS †																	
HP	kW	RPM	Frame	EFF	PF	Voltage	Full Load Amps	IEC Class	IEC Des	Net Weight	Flange Size			Removable Feet	575V C-Face Part Number	List Price	Notes (a)
											M	N	P				
10	7.5	3600	132S	90.2	91	575V	9.2	IE3	N	156	165	130	200	Yes	20MCM-3-10-36/575	1,528.00	13,18,32◆
			132S	90.2	89	575V	9.4	IE3	N	183	165	130	200	Yes	20MCM-3-10-36P/575	1,754.00	9,13,18,32
			132S	90.2	91	575V	9.2	IE3	N	156	215	180	250	Yes	20MCM-3-10-36/1/575	1,528.00	13,18,32◆
			132S	90.2	89	575V	9.4	IE3	N	183	215	180	250	Yes	20MCM-3-10-36P/1/575	1,754.00	9,13,18,32
		132M	89.5	80	575V	10.5	IE2	H	162	165	130	200	Yes	20MCM-3-10-18/575	1,747.00	13,18,32◆	
		132M	91.7	79	575V	10.3	IE3	H	190	165	130	200	Yes	20MCM-3-10-18P/575	2,007.00	9,13,18,32	
	1200	132M	89.5	80	575V	10.5	IE2	H	162	215	180	250	Yes	20MCM-3-10-18/1/575	1,747.00	13,18,32◆	
		132M	91.7	79	575V	10.3	IE3	H	190	215	180	250	Yes	20MCM-3-10-18P/1/575	2,007.00	9,13,18,32	
		160M	91	81	575V	10.3	IE3	H	295	215	180	250	Yes	20MCM-3-10-12P/575	3,308.00	9,13,18,32	
		160M	91	81	575V	10.3	IE3	H	295	265	230	300	Yes	20MCM-3-10-12P/1/575	3,308.00	9,13,18,32	
		160M	91	86	575V	14.1	IE3	N	212	215	180	250	–	20MCM-3-15-36/575	2,087.00	18,32◆	
		160M	91	90	575V	13.5	IE3	N	271	215	180	250	Yes	20MCM-3-15-36P/575	2,401.00	9,13,18,32	
15	11	3600	160M	91	86	575V	14.1	IE3	N	212	265	230	300	–	20MCM-3-15-36/1/575	2,087.00	18,32◆
			160M	91	90	575V	13.5	IE3	N	271	265	230	300	Yes	20MCM-3-15-36P/1/575	2,401.00	9,13,18,32
			160M	91	80	575V	15.2	IE2	H	234	215	180	250	–	20MCM-3-15-18/575	2,139.00	18,32◆
			160M	91	80	575V	15.2	IE2	H	234	265	230	300	–	20MCM-3-15-18/1/575	2,139.00	18,32◆
		160M	92.4	83	575V	14.4	IE3	H	300	215	180	250	Yes	20MCM-3-15-18P/575	2,459.00	9,13,18,32	
		160M	91	80	575V	15.2	IE2	H	234	265	230	300	Yes	20MCM-3-15-18P/1/575	2,459.00	9,13,18,32	
	1200	160L	90.2	82	575V	15	IE2	H	276	215	180	250	–	20MCM-3-15-12/575	3,390.00	18,32◆	
		160L	91.7	79	575V	15.2	IE3	H	322	215	180	250	Yes	20MCM-3-15-12P/575	3,904.00	9,13,18,32	
		160L	90.2	82	575V	15	IE2	H	276	265	230	300	–	20MCM-3-15-12/1/575	3,390.00	18,32◆	
		160L	91.7	79	575V	15.2	IE3	H	322	265	230	300	Yes	20MCM-3-15-12P/1/575	3,904.00	9,13,18,32	
		160M	91	89	575V	18.6	IE3	N	227	215	180	250	–	20MCM-3-20-36/575	2,453.00	18,32◆	
		160M	91	90	575V	18.4	IE3	N	291	215	180	250	Yes	20MCM-3-20-36P/575	2,822.00	9,13,18,32	
20	15	3600	160M	91	89	575V	18.6	IE3	N	227	265	230	300	–	20MCM-3-20-36/1/575	2,453.00	18,32◆
			160M	91	90	575V	18.4	IE3	N	291	265	230	300	Yes	20MCM-3-20-36P/1/575	2,822.00	9,13,18,32
		160L	91	80	575V	20.7	IE2	H	278	215	180	250	–	20MCM-3-20-18/575	2,546.00	18,32◆	
		160L	93	82	575V	19.8	IE3	H	340	215	180	250	Yes	20MCM-3-20-18P/575	2,930.00	9,13,18,32	
	160L	91	80	575V	20.7	IE2	H	278	265	230	300	–	20MCM-3-20-18/1/575	2,546.00	18,32◆		
	160L	93	82	575V	19.8	IE3	H	340	265	230	300	Yes	20MCM-3-20-18P/1/575	2,930.00	9,13,18,32		
25	3600	160L	91.7	90	575V	22.5	IE3	N	260	215	180	250	–	20MCM-3-25-36/575	2,703.00	18,32◆	
		160L	91.7	90	575V	22.5	IE3	N	260	215	180	250	Yes	20MCM-3-25-36P/575	3,380.00	9,13,18,32	
		160L	91.7	90	575V	22.5	IE3	N	260	265	230	300	–	20MCM-3-25-36/1/575	2,703.00	18,32◆	
		160L	91.7	90	575V	22.5	IE3	N	260	265	230	300	Yes	20MCM-3-25-36P/1/575	3,380.00	9,13,18,32	

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 92 - 104

◆ = Discontinued item, available while supplies last.

Motors can be modified from Footed to C-Face or D-Flange and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

## Single Phase Rolled Steel – 1/3-10 HP

1PH TEFC 60 Hz NEMA AC Footed & Footless Motors

**Applications:** Energy-saving continuous duty general purpose motor designed for a wide variety of commercial applications found in homes, farms, machine tools, etc.



### Features

- High starting torque
- Service Factor: up to 1.15
- Design: "B" or "L"
- Protection Degree: IP55
- Enclosure: TEFC rolled steel NEMA frame
- Double shielded ball bearings
- F1 footmount assembly with or without C-Face
- Steel fan guard and plastic fan as standard
- Outdoor usable
- Replacement parts available
- Warranty: 1-Year

FOOTED MOTORS														
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Thermal Protection	Flange	Footed Part Number	List Price	Notes (a)
1/3	3600	56C	57	82	115/230V	4.8/2.4	1.15	B	23	–	C-Flange	38CF-1-.33-36	239.00	
		56C	57	82	115/230V	4.8/2.4	1.15	B	23	Yes	C-Flange	38CF-1-.33-36TP	249.00	
	1800	56C	60	59	115/230V	6/3	1.15	B	23	–	C-Flange	38CF-1-.33-18	248.00	
		56C	60	59	115/230V	6/3	1.15	B	23	Yes	C-Flange	38CF-1-.33-18TP	256.00	
1/2	3600	56C	63	83	115/230V	6.2/3.1	1.15	B	24	–	C-Flange	38CF-1-.50-36	250.00	
		56C	63	83	115/230V	6.2/3.1	1.15	B	24	Yes	C-Flange	38CF-1-.50-36TP	254.00	
	1800	56C	62	65	115/230V	8/4	1.15	B	24	–	C-Flange	38CF-1-.50-18	260.00	
		56C	62	65	115/230V	8/4	1.15	B	24	Yes	C-Flange	38CF-1-.50-18TP	267.00	
3/4	3600	56C	64	83	115/230V	9/4.5	1.15	B	27	–	C-Flange	38CF-1-.75-36	267.00	
		56C	64	83	115/230V	9/4.5	1.15	B	27	Yes	C-Flange	38CF-1-.75-36TP	292.00	
	1800	56C	73	71	115/230V	9.2/4.6	1.15	B	31	–	C-Flange	38CF-1-.75-18	288.00	
		56C	73	71	115/230V	9.2/4.6	1.15	B	31	Yes	C-Flange	38CF-1-.75-18TP	302.00	
1	3600	56C	64	83	115/230V	12.4/6.2	1.15	B	32	–	C-Flange	38CF-1-1-36	291.00	
		56C	64	83	115/230V	12.4/6.2	1.15	B	32	Yes	C-Flange	38CF-1-1-36TP	314.00	
	1800	56C	73	73	115/230V	12.2/6.1	1.15	B	36	–	C-Flange	38CF-1-1-18	310.00	
		56C	73	73	115/230V	12.2/6.1	1.15	B	36	Yes	C-Flange	38CF-1-1-18TP	331.00	
1.5	3600	56C	66	84	115/230V	17.4/8.7	1.15	B	40	–	C-Flange	38CF-1-1.5-36	324.00	
		56C	66	84	115/230V	17.4/8.7	1.15	B	40	Yes	C-Flange	38CF-1-1.5-36TP	355.00	
	1800	56C	74	77	115/230V	16.8/8.4	1.15	B	41	–	C-Flange	38CF-1-1.5-18	356.00	
		56C	74	77	115/230V	16.8/8.4	1.15	B	41	Yes	C-Flange	38CF-1-1.5-18TP	388.00	
2	3600	56HC	72	84	115/230V	21.6/10.8	1.15	B	43	–	C-Flange	38CF-1-2-36	390.00	9
		56HC	72	84	115/230V	21.6/10.8	1.15	B	43	Yes	C-Flange	38CF-1-2-36TP	407.00	9
	1800	56HC	76	95	115/230V	18/9	1.15	B	43	–	C-Flange	38CF-1-2-18	420.00	9
		56HC	76	95	115/230V	18/9	1.15	B	43	Yes	C-Flange	38CF-1-2-18TP	477.00	9
3	3600	56HC	79	95	115/230V	25.6/12.8	1.15	B	50	–	C-Flange	38CF-1-3-36	525.00	9
		182T	79.4	99	208-230/460V	14.0-12.4/6.3	1.15	L	88	–	–	36TF-1-3-36	706.00	V,5
	1800	182TC	79.4	99	208-230/460V	14.0-12.4/6.3	1.15	L	88	–	C-Flange	36TC-1-3-36	755.00	V,5
		182T	81.7	95	208-230/460V	14.5-12.6/6.4	1.15	L	92	–	–	36TF-1-3-18	787.00	V,5
		182TC	81.7	95	208-230/460V	14.5-12.6/6.4	1.15	L	92	–	C-Flange	36TC-1-3-18	842.00	V,5

**NEW PRODUCT**

**Performance Data & Mounting Dimensions:** 115 - 117

TP = Part Number suffix denotes motor with Thermal Protection and Manual Reset

(a) See notes on inside back cover.

General Information

### Single Phase, Rolled Steel, NEMA AC, Footed & Footless

### 1/3-10 HP

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

FOOTED MOTORS														
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Thermal Protection	Flange	Footed Part Number	List Price	Notes (a)
5	3600	184T	82.5	99	208-230/460V	23.0-20.0/10.0	1.15	L	95	–	–	36TF-1-5-36	838.00	V,5
		184TC	82.5	99	208-230/460V	23.0-20.0/10.0	1.15	L	95	–	C-Flange	36TC-1-5-36	897.00	V,5
	1800	184T	83.8	96	208-230/460V	22.5-20.0/10.0	1.15	L	110	–	–	36TF-1-5-18	901.00	V,5
		184TC	83.8	96	208-230/460V	22.5-20.0/10.0	1.15	L	110	–	C-Flange	36TC-1-5-18	964.00	V,5
7.5	3600	213T	83.5	99	208-230/460V	31.5-29.0/15.0	1.15	L	123	–	–	36TF-1-7.5-36	1,245.00	V,5
		213TC	83.5	99	208-230/460V	31.5-29.0/15.0	1.15	L	123	–	C-Flange	36TC-1-7.5-36	1,332.00	V,5
	1800	213T	84.5	98	208-230/460V	32.8-30.0/15.2	1.15	L	143	–	–	36TF-1-7.5-18	1,358.00	V,5
		213TC	84.5	98	208-230/460V	32.8-30.0/15.2	1.15	L	143	–	C-Flange	36TC-1-7.5-18	1,453.00	V,5
10	1800	215T	88.7	97	208-230/460V	40.2-38.2/19.5	1.0	L	161	–	–	36TF-1-10-18	1,672.00	V,5
		215TC	88.7	97	208-230/460V	40.2-38.2/19.5	1.0	L	161	–	C-Flange	36TC-1-10-18	1,789.00	V,5

FOOTLESS MOTORS														
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Thermal Protection	Flange	Footless Part Number	List Price	Notes (a)
1/3	3600	56C	57	82	115/230V	4.8/2.4	1.15	B	23	–	C-Flange	38CR-1-.33-36	239.00	
		56C	57	82	115/230V	4.8/2.4	1.15	B	23	Yes	C-Flange	38CR-1-.33-36TP	249.00	
	1800	56C	60	59	115/230V	6/3	1.15	B	23	–	C-Flange	38CR-1-.33-18	248.00	
		56C	60	59	115/230V	6/3	1.15	B	23	Yes	C-Flange	38CR-1-.33-18TP	256.00	
1/2	3600	56C	63	83	115/230V	6.2/3.1	1.15	B	24	–	C-Flange	38CR-1-.50-36	250.00	
		56C	63	83	115/230V	6.2/3.1	1.15	B	24	Yes	C-Flange	38CR-1-.50-36TP	254.00	
	1800	56C	62	65	115/230V	8/4	1.15	B	24	–	C-Flange	38CR-1-.50-18	260.00	
		56C	62	65	115/230V	8/4	1.15	B	24	Yes	C-Flange	38CR-1-.50-18TP	267.00	
3/4	3600	56C	64	83	115/230V	9/4.5	1.15	B	27	–	C-Flange	38CR-1-.75-36	267.00	
		56C	64	83	115/230V	9/4.5	1.15	B	27	Yes	C-Flange	38CR-1-.75-36TP	292.00	
	1800	56C	73	71	115/230V	9.2/4.6	1.15	B	31	–	C-Flange	38CR-1-.75-18	288.00	
		56C	73	71	115/230V	9.2/4.6	1.15	B	31	Yes	C-Flange	38CR-1-.75-18TP	302.00	
1	3600	56C	64	83	115/230V	12.4/6.2	1.15	B	32	–	C-Flange	38CR-1-1-36	291.00	
		56C	64	83	115/230V	12.4/6.2	1.15	B	32	Yes	C-Flange	38CR-1-1-36TP	314.00	
	1800	56C	73	73	115/230V	12.2/6.1	1.15	B	36	–	C-Flange	38CR-1-1-18	310.00	
		56C	73	73	115/230V	12.2/6.1	1.15	B	36	Yes	C-Flange	38CR-1-1-18TP	331.00	
1.5	3600	56C	66	84	115/230V	17.4/8.7	1.15	B	40	–	C-Flange	38CR-1-1.5-36	324.00	
		56C	66	84	115/230V	17.4/8.7	1.15	B	40	Yes	C-Flange	38CR-1-1.5-36TP	355.00	
	1800	56C	74	77	115/230V	16.8/8.4	1.15	B	41	–	C-Flange	38CR-1-1.5-18	356.00	
		56C	74	77	115/230V	16.8/8.4	1.15	B	41	Yes	C-Flange	38CR-1-1.5-18TP	388.00	
2	3600	56C	72	84	115/230V	21.6/10.8	1.15	B	43	–	C-Flange	38CR-1-2-36	390.00	
		56C	72	84	115/230V	21.6/10.8	1.15	B	43	Yes	C-Flange	38CR-1-2-36TP	407.00	
	1800	56C	76	95	115/230V	18/9	1.15	B	43	–	C-Flange	38CR-1-2-18	420.00	
		56C	76	95	115/230V	18/9	1.15	B	43	Yes	C-Flange	38CR-1-2-18TP	477.00	

Performance Data & Mounting Dimensions: 115 - 117

TP = Part Number suffix denotes motor with Thermal Protection and Manual Reset

(a) See notes on inside back cover.

## 56C Frame Rolled Steel – 1/3-3 HP

1PH & 3PH TEFC 60 Hz NEMA AC Foot Mounted Motors

**Applications:** Energy-saving continuous duty motor designed for applications requiring exceptional value, quality and performance at home and/or in light industries.



### Features

- Inverter Duty Rated: 3:1CT & 5:1VT (3-Phase only)
- Service Factor: 1.15
- Design: "B"
- Protection Degree: IP55
- Enclosure: TEFC
- High locked rotor torque
- 3PH rated 380V 50Hz with lower HP output
- 1PH available with and without thermal protection and manual reset (TP)
- Rolled steel NEMA frame 56C
- Aluminum alloy cast C-Face with rigid base
- 56HC frame motors are double drilled
- Continuous duty
- Energy saving design
- F1 assembly
- Warranty: 1-Year

SINGLE PHASE MOTORS (1PH) FOOTED MOTORS

HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	C Dim	Thermal Protection	Footed Part Number	List Price	Notes <sup>(a)</sup>
1/3	3600	56C	57	–	82	115/230V	4.8/2.4	1.15	B	23	10.95	–	38CF-1-33-36	239.00	
		56C	57	–	82	115/230V	4.8/2.4	1.15	B	23	10.95	Yes	38CF-1-33-36TP	249.00	
	1800	56C	60	–	59	115/230V	6/3	1.15	B	23	10.95	–	38CF-1-33-18	248.00	
		56C	60	–	59	115/230V	6/3	1.15	B	23	10.95	Yes	38CF-1-33-18TP	256.00	
1/2	3600	56C	63	–	83	115/230V	6.2/3.1	1.15	B	24	10.95	–	38CF-1-50-36	250.00	
		56C	63	–	83	115/230V	6.2/3.1	1.15	B	24	10.95	Yes	38CF-1-50-36TP	254.00	
	1800	56C	62	–	65	115/230V	8/4	1.15	B	24	10.95	–	38CF-1-50-18	260.00	
		56C	62	–	65	115/230V	8/4	1.15	B	24	10.95	Yes	38CF-1-50-18TP	267.00	
3/4	3600	56C	64	–	83	115/230V	9/4.5	1.15	B	27	10.95	–	38CF-1-75-36	267.00	
		56C	64	–	83	115/230V	9/4.5	1.15	B	27	10.95	Yes	38CF-1-75-36TP	292.00	
	1800	56C	73	–	71	115/230V	9.2/4.6	1.15	B	31	11.5	–	38CF-1-75-18	288.00	
		56C	73	–	71	115/230V	9.2/4.6	1.15	B	31	11.5	Yes	38CF-1-75-18TP	302.00	
1	3600	56C	64	–	83	115/230V	12.4/6.2	1.15	B	32	11.5	–	38CF-1-1-36	291.00	
		56C	64	–	83	115/230V	12.4/6.2	1.15	B	32	11.5	Yes	38CF-1-1-36TP	314.00	
	1800	56C	73	–	73	115/230V	12.2/6.1	1.15	B	36	12	–	38CF-1-1-18	310.00	
		56C	73	–	73	115/230V	12.2/6.1	1.15	B	36	12	Yes	38CF-1-1-18TP	331.00	
1.5	3600	56C	66	–	84	115/230V	17.4/8.7	1.15	B	40	12	–	38CF-1-1.5-36	324.00	
		56C	66	–	84	115/230V	17.4/8.7	1.15	B	40	12	Yes	38CF-1-1.5-36TP	355.00	
	1800	56C	74	–	77	115/230V	16.8/8.4	1.15	B	41	12.85	–	38CF-1-1.5-18	356.00	
		56C	74	–	77	115/230V	16.8/8.4	1.15	B	41	12.85	Yes	38CF-1-1.5-18TP	388.00	
2	3600	56HC	72	–	84	115/230V	21.6/10.8	1.15	B	43	14.4	–	38CF-1-2-36	390.00	9
		56HC	72	–	84	115/230V	21.6/10.8	1.15	B	43	14.4	Yes	38CF-1-2-36TP	407.00	9
	1800	56HC	76	–	95	115/230V	18/9	1.15	B	43	14	–	38CF-1-2-18	420.00	9
		56HC	76	–	95	115/230V	18/9	1.15	B	43	14	Yes	38CF-1-2-18TP	477.00	9
3	3600	56HC	79	–	95	115/230V	25.6/12.8	1.15	B	50	15.1	–	38CF-1-3-36	525.00	9

**NEW PRODUCT**

**Performance Data & Mounting Dimensions:** 116 - 117

<sup>†</sup> P = Meets NEMA Premium® efficiency requirements

TP = Part Number suffix denotes motor with Thermal Protection and Manual Reset

<sup>(a)</sup> See notes on inside back cover.

General Information

### 56C, Rolled Steel, NEMA AC 1PH & 3PH, Foot Mounted

1/3-3 HP

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### THREE PHASE MOTORS (3PH) FOOTED MOTORS

HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	C Dim	Thermal Protection	Footed Part Number	List Price	Notes (a)
1/3	3600	56C	59	–	83	208-230/460V	1.4-1.3/0.7	1.15	B	21	10.95	–	38CF-3-.33-36	219.00	29
	1800	56C	79	–	81	208-230/460V	1.1-1/0.5	1.15	B	21	10.95	–	38CF-3-.33-18	220.00	29
1/2	3600	56C	62	–	85	208-230/460V	1.9-1.8/0.9	1.15	B	22	10.95	–	38CF-3-.50-36	227.00	29
	1800	56C	71	–	75	208-230/460V	2-1.8/0.9	1.15	B	21	10.95	–	38CF-3-.50-18	229.00	29
3/4	3600	56C	69	–	84	208-230/460V	2.7-2.4/1.2	1.15	B	23	10.95	–	38CF-3-.75-36	238.00	29
	1800	56C	72	–	76	208-230/460V	2.9-2.6/1.3	1.15	B	23	10.95	–	38CF-3-.75-18	250.00	29
1	3600	56HC	80	P	89	208-230/460V	2.9-2.6/1.3	1.15	B	26	13.2	–	38CF-3-1-36P	339.00	9,22,30
		56HC	77	P	75	208-230/460V	4-3.6/1.8	1.15	B	27	12.8	–	38CF-3-1-36PA	339.00	V,9,29
	1800	56HC	85.5	P	71	208-230/460V	3.3-3/1.5	1.15	B	32	13.2	–	38CF-3-1-18P	397.00	9,22,30
1.5	3600	56C	72	–	85	208-230/460V	5.1-4.6/2.3	1.15	B	30	11.5	–	38CF-3-1.5-36	295.00	29◆
		56HC	84	P	88	208-230/460V	4.2-3.8/1.9	1.15	B	30	13.2	–	38CF-3-1.5-36P	374.00	9,22,30
	1800	56C	83	–	76	208-230/460V	4.9-4.4/2.2	1.15	B	26	11.5	–	38CF-3-1.5-18	324.00	29◆
2	3600	56HC	86.5	P	73	208-230/460V	4.9-4.4/2.2	1.15	B	33	13.2	–	38CF-3-1.5-18P	456.00	9,22,30
		56HC	85.5	P	87	208-230/460V	5.5-5/2.5	1.15	B	32	13.2	–	38CF-3-2-36P	401.00	9,22,30
	1800	56HC	85.5	P	64	208-230/460V	3.3-3/1.5	1.15	B	34	12.8	–	38CF-3-2-36PA	401.00	V,9,29
3	3600	56HC	86.5	P	80	208-230/460V	6-5.4/2.7	1.15	B	37	13.9	–	38CF-3-2-18P	466.00	9,22,30
		56HC	86.5	P	62	208-230/460V	4.8-4.4/2.2	1.15	B	37	12.8	–	38CF-3-2-18PA	466.00	V,9,29
	1800	56HC	86.5	P	90	208-230/460V	8-7.2/3.6	1.15	B	39	13.9	–	38CF-3-3-36P	444.00	9,22,30
		56HC	86.5	P	70	208-230/460V	6.5-6/3	1.15	B	41	12.8	–	38CF-3-3-36PA	444.00	V,9,29

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 116 - 117

<sup>†</sup> P = Meets NEMA Premium® efficiency requirements

◆ = Discontinued item, available while supplies last.

TP = Part Number suffix denotes motor with Thermal Protection and Manual Reset

(a) See notes on inside back cover.

## 56C Frame Rolled Steel – 1/3-3 HP

1PH & 3PH TEFC 60 Hz NEMA AC Footless Motors

**Applications:** Energy-saving continuous duty motor designed for applications requiring exceptional value, quality and performance at home and/or in light industries.



### Features

- Inverter Duty Rated: 3:1CT & 5:1VT (3-Phase only)
- Service Factor: 1.15
- Design: "B"
- Protection Degree: IP55
- Enclosure: TEFC
- High locked rotor torque
- 3PH rated 380V 50Hz with lower HP output
- 1PH available with and without thermal protection and manual reset (TP)
- Rolled steel NEMA frame 56C
- Aluminum alloy cast C-Face
- Continuous duty
- Energy saving design
- F1 assembly
- Warranty: 1-Year

SINGLE PHASE MOTORS (1PH) FOOTLESS MOTORS

HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	C Dim	Thermal Protection	Footless Part Number	List Price	Notes <sup>(a)</sup>
1/3	3600	56C	57	–	82	115/230V	4.8/2.4	1.15	B	23	10.95	–	38CR-1-.33-36	239.00	
		56C	57	–	82	115/230V	4.8/2.4	1.15	B	23	10.95	Yes	38CR-1-.33-36TP	249.00	
	1800	56C	60	–	59	115/230V	6/3	1.15	B	23	10.95	–	38CR-1-.33-18	248.00	
		56C	60	–	59	115/230V	6/3	1.15	B	23	10.95	Yes	38CR-1-.33-18TP	256.00	
1/2	3600	56C	63	–	83	115/230V	6.2/3.1	1.15	B	24	10.95	–	38CR-1-.50-36	250.00	
		56C	63	–	83	115/230V	6.2/3.1	1.15	B	24	10.95	Yes	38CR-1-.50-36TP	254.00	
	1800	56C	62	–	65	115/230V	8/4	1.15	B	24	10.95	–	38CR-1-.50-18	260.00	
		56C	62	–	65	115/230V	8/4	1.15	B	24	10.95	Yes	38CR-1-.50-18TP	267.00	
3/4	3600	56C	64	–	83	115/230V	9/4.5	1.15	B	27	10.95	–	38CR-1-.75-36	267.00	
		56C	64	–	83	115/230V	9/4.5	1.15	B	27	10.95	Yes	38CR-1-.75-36TP	292.00	
	1800	56C	73	–	71	115/230V	9.2/4.6	1.15	B	31	11.5	–	38CR-1-.75-18	288.00	
		56C	73	–	71	115/230V	9.2/4.6	1.15	B	31	11.5	Yes	38CR-1-.75-18TP	302.00	
1	3600	56C	64	–	83	115/230V	12.4/6.2	1.15	B	32	11.42	–	38CR-1-1-36	291.00	
		56C	64	–	83	115/230V	12.4/6.2	1.15	B	32	11.42	Yes	38CR-1-1-36TP	314.00	
	1800	56C	73	–	73	115/230V	12.2/6.1	1.15	B	36	12	–	38CR-1-1-18	310.00	
		56C	73	–	73	115/230V	12.2/6.1	1.15	B	36	12	Yes	38CR-1-1-18TP	331.00	
1.5	3600	56C	66	–	84	115/230V	17.4/8.7	1.15	B	40	12	–	38CR-1-1.5-36	324.00	
		56C	66	–	84	115/230V	17.4/8.7	1.15	B	40	12	Yes	38CR-1-1.5-36TP	355.00	
	1800	56C	74	–	77	115/230V	16.8/8.4	1.15	B	41	12.85	–	38CR-1-1.5-18	356.00	
		56C	74	–	77	115/230V	16.8/8.4	1.15	B	41	12.85	Yes	38CR-1-1.5-18TP	388.00	
2	3600	56C	72	–	84	115/230V	21.6/10.8	1.15	B	43	12.9	–	38CR-1-2-36	390.00	
		56C	72	–	84	115/230V	21.6/10.8	1.15	B	43	12.9	Yes	38CR-1-2-36TP	407.00	
	1800	56C	76	–	95	115/230V	18/9	1.15	B	43	12.9	–	38CR-1-2-18	420.00	
		56C	76	–	95	115/230V	18/9	1.15	B	43	12.9	Yes	38CR-1-2-18TP	477.00	

**Performance Data & Mounting Dimensions:** 116 - 117

<sup>†</sup> P = Meets NEMA Premium® efficiency requirements

TP = Part Number suffix denotes motor with Thermal Protection and Manual Reset

<sup>(a)</sup> See notes on inside back cover.

General Information

### 56C, Rolled Steel, NEMA AC 1PH & 3PH, Footless

1/3-3 HP

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### THREE PHASE MOTORS (3PH) FOOTLESS MOTORS

HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	C Dim	Thermal Protection	Footless Part Number	List Price	Notes <sup>(a)</sup>
1/3	3600	56C	59	–	83	208-230/460V	1.4-1.3/0.7	1.15	B	21	10.95	–	38CR-3-.33-36	219.00	29
	1800	56C	79	–	81	208-230/460V	1.1-1/0.5	1.15	B	21	10.95	–	38CR-3-.33-18	220.00	29
1/2	3600	56C	62	–	85	208-230/460V	1.9-1.8/0.9	1.15	B	22	10.95	–	38CR-3-.50-36	227.00	29
	1800	56C	71	–	75	208-230/460V	2-1.8/0.9	1.15	B	21	10.95	–	38CR-3-.50-18	229.00	29
3/4	3600	56C	69	–	84	208-230/460V	2.7-2.4/1.2	1.15	B	23	10.95	–	38CR-3-.75-36	238.00	29
	1800	56C	72	–	76	208-230/460V	2.9-2.6/1.3	1.15	B	23	10.95	–	38CR-3-.75-18	250.00	29
1	3600	56C	80	P	89	208-230/460V	2.9-2.6/1.3	1.15	B	26	13.2	–	38CR-3-1-36P	328.00	22,30
	1800	56C	79	–	73	208-230/460V	3.8-3.4/1.7	1.15	B	24	10.95	–	38CR-3-1-18	279.00	29◆
		56C	85.5	P	71	208-230/460V	3.3-3/1.5	1.15	B	32	13.2	–	38CR-3-1-18P	387.00	22,30
1.5	3600	56C	84	P	88	208-230/460V	4.2-3.8/1.9	1.15	B	30	13.2	–	38CR-3-1.5-36P	364.00	22,30
		56C	84	P	83	208-230/460V	5.4-5/2.5	1.15	B	32	12.8	–	38CR-3-1.5-36PA	364.00	V,29
	1800	56C	86.5	P	73	208-230/460V	4.9-4.4/2.2	1.15	B	33	13.2	–	38CR-3-1.5-18P	446.00	22,30
		56C	86.5	P	89	208-230/460V	8.2-7.6/3.8	1.15	B	43	12.8	–	38CR-3-1.5-18PA	446.00	V,29
2	3600	56C	85.5	P	87	208-230/460V	5.5-5/2.5	1.15	B	32	13.2	–	38CR-3-2-36P	390.00	22,30
		56C	85.5	P	64	208-230/460V	3.3-3/1.5	1.15	B	34	12.8	–	38CR-3-2-36PA	390.00	V,29
	1800	56C	86.5	P	80	208-230/460V	6-5.4/2.7	1.15	B	37	13.9	–	38CR-3-2-18P	455.00	22,30
		56C	86.5	P	62	208-230/460V	4.8-4.4/2.2	1.15	B	37	12.8	–	38CR-3-2-18PA	455.00	V,29
3	3600	56C	80	–	83	208-230/460V	8.4-7.6/3.8	1.15	B	38	12.4	–	38CR-3-3-36	339.00	29◆
		56C	86.5	P	90	208-230/460V	8-7.2/3.6	1.15	B	39	13.9	–	38CR-3-3-36P	433.00	22,30

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 116 - 117

<sup>†</sup> P = Meets NEMA Premium® efficiency requirements

◆ = Discontinued item, available while supplies last.

TP = Part Number suffix denotes motor with Thermal Protection and Manual Reset

<sup>(a)</sup> See notes on inside back cover.



## High Torque Single Phase – 3-10 HP

1PH TEFC 60 Hz NEMA AC Foot Mounted and C-Face Motors

**Applications:** Ideal for a variety of moderate to high-starting torque applications such as grain augers, poultry feed augers, bin grain stirring systems, manure pumps, hog pond pumps, grain legs, grain cleaning, conveyors, pumps, aeration and more.



### Features

- High starting torque
- Service Factor: up to 1.15
- Design: "L"
- Protection Degree: IP55
- Enclosure: TEFC rolled steel NEMA frame
- Oversized ball bearings
- VPI process applied for best electrical performance
- F1 footmount assembly with or without C-Face
- 1-Phase 208-230/460V 60Hz
- Shaft v-ring seals
- Rolled steel construction with cast iron end plates
- Outdoor usable
- Steel fan guard and plastic fan
- Start and run capacitors standard
- Corrosion resistant epoxy coated
- Condensation drains
- UL certified
- Replacement parts available
- Warranty: 1-Year

FOOTED MOTORS												
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes <sup>(a)</sup>
3	3600	182T	79.4	99	208-230/460V	14.0-12.4/6.3	1.15	L	88	36TF-1-3-36	706.00	V,5
	1800	182T	81.7	95	208-230/460V	14.5-12.6/6.4	1.15	L	92	36TF-1-3-18	787.00	V,5
5	3600	184T	82.5	99	208-230/460V	23.0-20.0/10.0	1.15	L	95	36TF-1-5-36	838.00	V,5
	1800	184T	83.8	96	208-230/460V	22.5-20.0/10.0	1.15	L	110	36TF-1-5-18	901.00	V,5
7.5	3600	213T	83.5	99	208-230/460V	31.5-29.0/15.0	1.15	L	123	36TF-1-7.5-36	1,245.00	V,5
	1800	213T	84.5	98	208-230/460V	32.8-30.0/15.2	1.15	L	143	36TF-1-7.5-18	1,358.00	V,5
10	1800	215T	88.7	97	208-230/460V	40.2-38.2/19.5	1.0	L	161	36TF-1-10-18	1,672.00	V,5

C-FACE MOTORS WITH FEET												
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	C-Face Part Number	List Price	Notes <sup>(a)</sup>
3	3600	182TC	79.4	99	208-230/460V	14.0-12.4/6.3	1.15	L	88	36TC-1-3-36	755.00	V,5
	1800	182TC	81.7	95	208-230/460V	14.5-12.6/6.4	1.15	L	92	36TC-1-3-18	842.00	V,5
5	3600	184TC	82.5	99	208-230/460V	23.0-20.0/10.0	1.15	L	95	36TC-1-5-36	897.00	V,5
	1800	184TC	83.8	96	208-230/460V	22.5-20.0/10.0	1.15	L	110	36TC-1-5-18	964.00	V,5
7.5	3600	213TC	83.5	99	208-230/460V	31.5-29.0/15.0	1.15	L	123	36TC-1-7.5-36	1,332.00	V,5
	1800	213TC	84.5	98	208-230/460V	32.8-30.0/15.2	1.15	L	143	36TC-1-7.5-18	1,453.00	V,5
10	1800	215TC	88.7	97	208-230/460V	40.2-38.2/19.5	1.0	L	161	36TC-1-10-18	1,789.00	V,5

### C-Face Kits available

**Performance Data & Mounting Dimensions:** 115

<sup>(a)</sup> See notes on inside back cover.

General Information

### Stainless Steel – 1/3-30 HP

1PH & 3PH TEFC 60 Hz NEMA AC Foot Mounted Motors



Premium Efficient Motors

**Applications:** Continuous duty motor designed to meet the severe sanitation requirements of food-grade and high pressure washdown applications in the pharmaceutical, food and beverage, processing and packaging industries.

Severe & Crusher Duty Motors

#### Features

- Inverter Duty Rated: 3:1CT & 5:1VT (3-Phase only)
- Service Factor: 1.15
- Design: "B"
- Protection Degree: IP55 or IP56 (56C Frame)
- Enclosure: TEFC or TENV (Fractional 3PH)
- VPI process applied on 143TC and up
- C-Face without feet
- Class "F" insulation with Class "B" rise
- PTC140 thermistors standard 180 frame and up
- Continuous duty
- Sealed bearings
- Drive End (DE) locked bearing as standard
- Squirrel cage rotor
- 300 series stainless steel construction
- Anti-corrosion coating applied
- DE and NDE drain holes every 90°
- F1 assembly
- 12-Gauge puddle welded base
- NEMA Premium<sup>®</sup> efficient motors are double drilled
- Warranty: 1-Year

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### SINGLE PHASE MOTORS (1PH) FOOTED MOTORS

HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes <sup>(a)</sup>
1/2	3600	56C	63	–	83	115/230V	6.2/3.1	1.15	B	24	39CF-1-.50-36	684.00	
	1800	56C	61	–	65	115/230V	8.2/4.1	1.15	B	24	39CF-1-.50-18	655.00	
3/4	3600	56C	63	–	84	115/230V	9/4.5	1.15	B	26.5	39CF-1-.75-36	707.00	
	1800	56C	72	–	68	115/230V	9.8/4.9	1.15	B	23.5	39CF-1-.75-18	692.00	
1	3600	56C	64	–	84	115/230V	12.4/6.2	1.15	B	31.5	39CF-1-1-36	804.00	
	1800	56C	69	–	69	115/230V	13.6/6.8	1.15	B	33	39CF-1-1-18	812.00	
1.5	3600	56C	65	–	84	115/230V	17.6/8.8	1.15	B	35	39CF-1-1.5-36	915.00	
	1800	56C	73	–	69	115/230V	19/9.5	1.15	B	38.5	39CF-1-1.5-18	893.00	
2	3600	56HC	72	–	84	115/230V	21.6/10.8	1.15	B	50	39CF-1-2-36	974.00	9
	1800	56HC	76	–	95	115/230V	18/9	1.15	B	48	39CF-1-2-18	968.00	9

#### THREE PHASE MOTORS (3PH) FOOTED MOTORS

HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes <sup>(a)</sup>
1/3	3600	56C	67	–	88	208-230/460V	1.3-1.2/0.6	1.15	B	23	39CF-3-.33-36	557.00	22,30,31
	1800	56C	72	–	66	208-230/460V	1.4-1.3/0.7	1.15	B	22	39CF-3-.33-18	572.00	22,30,31
1/2	3600	56C	75	–	85	208-230/460V	1.8-1.6/0.8	1.15	B	25	39CF-3-.50-36	594.00	22,30,31
	1800	56C	78	–	70	208-230/460V	1.9-1.7/0.9	1.15	B	24	39CF-3-.50-18	607.00	22,30,31
3/4	3600	56C	80	–	80	208-230/460V	2.4-2.2/1.1	1.15	B	30	39CF-3-.75-36	638.00	22,30,31
	1800	56C	79	–	75	208-230/460V	2.7-2.4/1.2	1.15	B	31	39CF-3-.75-18	645.00	22,30,31
1	3600	56HC	80	P	89	208-230/460V	2.9-2.6/1.3	1.15	B	36.3	39CF-3-1-36P	745.00	9,22,30
		143TC	77	P	84	230/460V	2.9/1.5	1.15	B	44	79F-3-1-36	857.00	V,5,22,30
	1800	56HC	81	–	75	208-230/460V	3.3-3/1.5	1.15	B	38	39CF-3-1-18	674.00	9,22,30◆
		56HC	85.5	P	71	208-230/460V	3.3-3/1.5	1.15	B	44.5	39CF-3-1-18P	835.00	9,22,30
		143TC	85.5	P	75	230/460V	2.9/1.5	1.15	B	44	79F-3-1-18	857.00	V,5,22,30

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 118 - 121

<sup>†</sup> P = Meets NEMA Premium<sup>®</sup> efficiency requirements

◆ = Discontinued item, available while supplies last.

<sup>(a)</sup> See notes on inside back cover.

**Stainless Steel, NEMA AC 1PH & 3PH, Foot Mounted**

**1/3-30 HP**

THREE PHASE MOTORS (3PH) FOOTED MOTORS													
HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes <sup>(a)</sup>
1.5	3600	56HC	84	P	88	208-230/460V	4.2-3.8/1.9	1.15	B	42	39CF-3-1.5-36P	814.00	9,22,30
		143TC	84	P	84	230/460V	4/2	1.15	B	53	79F-3-1.5-36	955.00	V5,22,30
	1800	56HC	82.5	-	72	208-230/460V	5.1-4.6/2.3	1.15	B	45	39CF-3-1.5-18	736.00	9,22,30◆
		56HC	86.5	P	73	208-230/460V	4.9-4.4/2.2	1.15	B	47	39CF-3-1.5-18P	851.00	9,22,30
		145TC	86.5	P	79	230/460V	4.1/2.1	1.15	B	53	79F-3-1.5-18	941.00	V5,22,30
		56HC	84	-	87	208-230/460V	5.4-4.9/2.5	1.15	B	47	39CF-3-2-36	823.00	9,22,30◆
2	3600	56HC	85.5	P	87	208-230/460V	5.5-5/2.5	1.15	B	44.5	39CF-3-2-36P	929.00	9,22,30
		145TC	85.5	P	86	230/460V	5.1/2.6	1.15	B	55	79F-3-2-36	1,120.00	V5,22,30
	1800	56HC	86.5	P	80	208-230/460V	6-5.4/2.7	1.15	B	52.6	39CF-3-2-18P	960.00	9,22,30
		145TC	86.5	P	80	230/460V	5.4/2.7	1.15	B	59	79F-3-2-18	1,105.00	V5,22,30
3	3600	56HC	80	-	83	208-230/460V	8.4-7.6/3.8	1.15	B	51	39CF-3-3-36	948.00	9,22,30◆
		56HC	86.5	P	90	208-230/460V	8-7.2/3.6	1.15	B	54.6	39CF-3-3-36P	1,052.00	9,22,30
	1800	182TC	86.5	P	87	230/460V	7.5/3.7	1.15	B	98	79F-3-3-36	1,714.00	V5,22,30
		182TC	89.5	P	80	230/460V	7.8/3.9	1.15	B	100	79F-3-3-18	1,868.00	V5,22,30
5	3600	184TC	88.5	P	88	230/460V	12/6	1.15	B	107	79F-3-5-36	1,875.00	V5,22,30
	1800	184TC	89.5	P	80	230/460V	13.1/6.5	1.15	B	108	79F-3-5-18	2,113.00	V5,22,30
7.5	3600	213TC	89.7	P	89	230/460V	17.6/8.8	1.15	B	159	79F-3-7.5-36	2,402.00	V5,23,30
	1800	213TC	91.7	P	84	230/460V	18.2/9.1	1.15	B	171	79F-3-7.5-18	2,379.00	V5,23,30
10	3600	215TC	90.2	P	90	230/460V	23.1/11.5	1.15	B	177	79F-3-10-36	2,634.00	V5,23,30
	1800	215TC	91.7	P	84	230/460V	24.3/12.2	1.15	B	208	79F-3-10-18	2,597.00	V5,23,30
15	3600	254TC	91	P	89	230/460V	34.7/17.3	1.15	B	271	79F-3-15-36	6,209.00	V5,23,30
	1800	254TC	92.4	P	83	230/460V	36.6/18.3	1.15	B	296	79F-3-15-18	6,070.00	V5,23,30
20	3600	256TC	91	P	90	230/460V	45.7/22.9	1.15	B	322	79F-3-20-36	6,491.00	V5,23,30
	1800	256TC	93	P	84	230/460V	47.9/24	1.15	B	347	79F-3-20-18	6,351.00	V5,23,30
25	3600	284TSC	91.7	P	89	230/460V	57.4/28.7	1.15	B	428	79F-3-25-36	7,999.00	V5,23,30
	1800	284TC	93.6	P	86	230/460V	58.2/29.1	1.15	B	451	79F-3-25-18	7,859.00	V5,23,30
30	3600	286TSC	91.7	P	89	230/460V	68.84/34.4	1.15	B	474	79F-3-30-36	8,281.00	V5,23,30
	1800	286TC	93.6	P	86	230/460V	69.8/34.9	1.15	B	482	79F-3-30-18	8,139.00	V5,23,30

**NEW PRODUCT**

**Performance Data & Mounting Dimensions:** 118 - 121

<sup>†</sup> P = Meets NEMA Premium® efficiency requirements

◆ = Discontinued item, available while supplies last.

■ Non-stock item may be available in limited supply or by special order. Call 847-524-1074 or email support@elektrimmotors.com for details.

<sup>(a)</sup> See notes on inside back cover.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rollled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

General Information

### Stainless Steel – 1/3-30 HP

1PH & 3PH TEFC 60 Hz NEMA AC Footless Motors



Premium Efficient Motors

**Applications:** Continuous duty motor designed to meet the severe sanitation requirements of food-grade and high pressure washdown applications in the pharmaceutical, food and beverage, processing and packaging industries.

Severe & Crusher Duty Motors

#### Features

- Inverter Duty Rated: 3:1CT & 5:1VT (3-Phase only)
- Service Factor: 1.15
- Design: "B"
- Protection Degree: IP55 or IP56 (56C Frame)
- Enclosure: TEFC or TENV (Fractional 3PH)
- VPI process applied on 143TC and up
- C-Face without feet
- Class "F" insulation with Class "B" rise
- PTC140 thermistors standard 180 frame and up
- Continuous duty
- Sealed bearings
- Drive End (DE) locked bearing as standard
- Squirrel cage rotor
- 300 series stainless steel construction
- Anti-corrosion coating applied
- DE and NDE drain holes every 90°
- F1 assembly
- Warranty: 1-Year

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### SINGLE PHASE MOTORS (1PH)

HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footless Part Number	List Price	Notes <sup>(a)</sup>
1/2	3600	56C	63	–	83	115/230V	6.2/3.1	1.15	B	24	39CR-1-.50-36	684.00	
	1800	56C	61	–	65	115/230V	8.2/4.1	1.15	B	24	39CR-1-.50-18	655.00	
3/4	3600	56C	63	–	84	115/230V	9/4.5	1.15	B	26.5	39CR-1-.75-36	707.00	
	1800	56C	72	–	68	115/230V	9.8/4.9	1.15	B	23.5	39CR-1-.75-18	692.00	
1	3600	56C	64	–	84	115/230V	12.4/6.2	1.15	B	31.5	39CR-1-1-36	804.00	
	1800	56C	69	–	69	115/230V	13.6/6.8	1.15	B	33	39CR-1-1-18	812.00	
1.5	3600	56C	65	–	84	115/230V	17.6/8.8	1.15	B	35	39CR-1-1.5-36	915.00	
	1800	56C	73	–	69	115/230V	19/9.5	1.15	B	38.5	39CR-1-1.5-18	893.00	
2	3600	56C	72	–	84	115/230V	21.6/10.8	1.15	B	50	39CR-1-2-36	974.00	
	1800	56C	76	–	95	115/230V	18/9	1.15	B	48	39CR-1-2-18	968.00	

#### THREE PHASE MOTORS (3PH)

HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footless Part Number	List Price	Notes <sup>(a)</sup>
1/3	3600	56C	67	–	88	208-230/460V	1.3-1.2/0.6	1.15	B	23	39CR-3-.33-36	557.00	22,30,31
	1800	56C	72	–	66	208-230/460V	1.4-1.3/0.7	1.15	B	22	39CR-3-.33-18	572.00	22,30,31
1/2	3600	56C	75	–	85	208-230/460V	1.8-1.6/0.8	1.15	B	25	39CR-3-.50-36	594.00	22,30,31
	1800	56C	78	–	70	208-230/460V	1.9-1.7/0.9	1.15	B	24	39CR-3-.50-18	607.00	22,30,31
3/4	3600	56C	80	–	80	208-230/460V	2.7-2.4/1.2	1.15	B	30	39CR-3-.75-36	638.00	22,30,31
	1800	56C	79	–	75	208-230/460V	2.9-2.6/1.3	1.15	B	31	39CR-3-.75-18	645.00	22,30,31
1	3600	56C	80	P	89	208-230/460V	2.9-2.6/1.3	1.15	B	36.3	39CR-3-1-36P	734.00	22,30
		143TC	77	P	84	230/460V	2.9/1.5	1.15	B	44	79R-3-1-36	857.00	V,5,22,30
	1800	56C	85.5	P	71	208-230/460V	3.3-3/1.5	1.15	B	44.5	39CR-3-1-18P	825.00	22,30
		143TC	85.5	P	75	230/460V	2.9/1.5	1.15	B	44	79R-3-1-18	857.00	V,5,22,30

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 118 - 121

<sup>†</sup> P = Meets NEMA Premium® efficiency requirements

<sup>(a)</sup> See notes on inside back cover.

**Stainless Steel, NEMA AC 1PH & 3PH, Footless**

**1/3-30 HP**

THREE PHASE MOTORS (3PH)													
HP	RPM	Frame	EFF	NEMA <sup>†</sup> PREMIUM	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footless Part Number	List Price	Notes <sup>(a)</sup>
1.5	3600	56C	84	P	88	208-230/460V	4.2-3.8/1.9	1.15	B	42	<b>39CR-3-1.5-36P</b>	804.00	22,30
		143TC	84	P	84	230/460V	4/2	1.15	B	53	<b>79R-3-1.5-36</b>	955.00	V5,22,30
	1800	56C	86.5	P	73	208-230/460V	4.9-4.4/2.2	1.15	B	47	<b>39CR-3-1.5-18P</b>	840.00	22,30
		145TC	86.5	P	79	230/460V	4.1/2.1	1.15	B	53	<b>79R-3-1.5-18</b>	941.00	V5,22,30
2	3600	56C	85.5	P	87	208-230/460V	5.5-5/2.5	1.15	B	44.5	<b>39CR-3-2-36P</b>	918.00	22,30
		145TC	85.5	P	86	230/460V	5.1/2.6	1.15	B	55	<b>79R-3-2-36</b>	1,120.00	V5,22,30
	1800	56C	86.5	P	80	208-230/460V	6-5.4/2.7	1.15	B	52.6	<b>39CR-3-2-18P</b>	950.00	22,30
		145TC	86.5	P	80	230/460V	5.4/2.7	1.15	B	59	<b>79R-3-2-18</b>	1,105.00	V5,22,30
3	3600	56C	86.5	P	90	208-230/460V	8-7.2/3.6	1.15	B	54.6	<b>39CR-3-3-36P</b>	1,041.00	22,30
		182TC	86.5	P	87	230/460V	7.5/3.7	1.15	B	98	<b>79R-3-3-36</b>	1,714.00	V5,22,30
	1800	182TC	89.5	P	80	230/460V	7.8/3.9	1.15	B	100	<b>79R-3-3-18</b>	1,868.00	V5,22,30
5	3600	184TC	88.5	P	88	230/460V	12/6	1.15	B	107	<b>79R-3-5-36</b>	1,875.00	V5,22,30
	1800	184TC	89.5	P	80	230/460V	13.1/6.5	1.15	B	108	<b>79R-3-5-18</b>	2,113.00	V5,22,30
7.5	3600	213TC	89.7	P	89	230/460V	17.6/8.8	1.15	B	159	<b>79R-3-7.5-36</b>	2,402.00	V5,23,30
	1800	213TC	91.7	P	84	230/460V	18.2/9.1	1.15	B	171	<b>79R-3-7.5-18</b>	2,379.00	V5,23,30
10	3600	215TC	90.2	P	90	230/460V	23.1/11.5	1.15	B	177	<b>79R-3-10-36</b>	2,634.00	V5,23,30
	1800	215TC	91.7	P	84	230/460V	24.3/12.2	1.15	B	208	<b>79R-3-10-18</b>	2,597.00	V5,23,30
15	3600	254TC	91	P	89	230/460V	34.7/17.3	1.15	B	271	<b>79R-3-15-36</b>	6,209.00	V5,23,30
	1800	254TC	92.4	P	83	230/460V	36.6/18.3	1.15	B	296	<b>79R-3-15-18</b>	6,070.00	V5,23,30
20	3600	256TC	91	P	90	230/460V	45.7/22.9	1.15	B	322	<b>79R-3-20-36</b>	6,491.00	V5,23,30
	1800	256TC	93	P	84	230/460V	47.9/24	1.15	B	347	<b>79R-3-20-18</b>	6,351.00	V5,23,30
25	3600	284TSC	91.7	P	89	230/460V	57.4/28.7	1.15	B	428	<b>79R-3-25-36</b>	7,999.00	V5,23,30
	1800	284TC	93.6	P	86	230/460V	58.2/29.1	1.15	B	451	<b>79R-3-25-18</b>	7,859.00	V5,23,30
30	3600	286TSC	91.7	P	89	230/460V	68.84/34.4	1.15	B	474	<b>79R-3-30-36</b>	8,281.00	V5,23,30
	1800	286TC	93.6	P	86	230/460V	69.8/34.9	1.15	B	482	<b>79R-3-30-18</b>	8,139.00	V5,23,30

**NEW PRODUCT**

**Performance Data & Mounting Dimensions:** 118 - 121

<sup>†</sup> P = Meets NEMA Premium® efficiency requirements

■ Non-stock item may be available in limited supply or by special order. Call 847-524-1074 or email support@elektrimmotors.com for details.

<sup>(a)</sup> See notes on inside back cover.

General  
Information

### JM Close Coupled Pump – 1-50 HP

3PH TEFC 60 Hz NEMA AC C-Face Footed Motors



Premium  
Efficient Motors

**Applications:** Designed for continuous duty on close coupled pumps with NEMA JM mounting dimensions which are ideal for fluid circulation and transfer applications ranging from treatment plants to swimming pools.

Severe & Crusher  
Duty Motors

#### Features

- Inverter Duty Rated: 20:1VT
- Service Factor: up to 1.4
- Design: "B" or "A"
- Protection Degree: IP55
- Enclosure: TEFC
- VPI process applied for best electrical performance
- High lock rotor torque
- Dual rated for 190/380V 50 Hz
- 575V and other ratings available upon request
- Oversized bearings on both ends
- Mechanically locked on shaft
- Class "F" insulation with Class "B" rise
- Rigid cast iron frame
- Steel fan guard
- F1 mounting position
- Drain plugs
- Designed for horizontal and vertical application
- CSA-US certified, DOE approved and CE marked
- 20J Series motors are NEMA Premium<sup>®</sup> marked
- Warranty: 3-Years

Metric IEC  
Motors

Rollled Steel  
Motors

Stainless Steel  
Washdown Motors

Pump  
Motors

Brake  
Motors

Parts and  
Accessories

Technical  
Data

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	JM Part Number	List Price	Notes <sup>(a)</sup>
1	1800	143JM	85.5	78	208-230/460V	3.1-2.8/1.4	1.4	B	53	–	20JM-3-1-18	622.00	4,22
	3600	143JM	84.5	78	208-230/460V	4.6-4.2/2.1	1.4	B	56	–	20JM-3-1.5-36	632.00	4,22
1.5	1800	145JM	87	79	208-230/460V	4.4-4/2	1.4	B	57	–	20JM-3-1.5-18	636.00	4,22
	3600	145JM	86	82	208-230/460V	6-5.4/2.7	1.4	B	57	–	20JM-3-2-36	681.00	4,22
2	1800	145JM	86.5	83	208-230/460V	5.8-5.2/2.6	1.4	B	59	–	20JM-3-2-18	746.00	4,22
	3600	182JM	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	–	20JM-3-3-36	848.00	4,9,22
3	1800	182JM	89.5	75	208-230/460V	9.3-8.4/4.2	1.4	A	102	–	20JM-3-3-18	859.00	4,9,22
	3600	184JM	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	–	20JM-3-5-36	1,048.00	4,9,22
5	1800	184JM	89.5	78	208-230/460V	14.8-13.4/6.7	1.3	A	108	–	20JM-3-5-18	1,026.00	4,9,22
	3600	213JM	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	–	20JM-3-7.5-36	1,241.00	4,9,23
7.5	1800	213JM	91.7	82	208-230/460V	20.6-18.6/9.3	1.3	A	167	–	20JM-3-7.5-18	1,356.00	4,9,23
	3600	215JM	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	–	20JM-3-10-36	1,442.00	4,9,23
10	1800	215JM	91.7	82	208-230/460V	27.6-25/12.5	1.3	A	185	–	20JM-3-10-18	1,598.00	4,9,23
	3600	254JM	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	–	20JM-3-15-36	1,962.00	4,23
15	1800	254JM	92.4	88	208-230/460V	38.3-34.6/17.3	1.3	A	301	–	20JM-3-15-18	2,015.00	4,23
	3600	256JM	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	–	20JM-3-20-36	2,413.00	4,23
20	1800	256JM	93	88	208-230/460V	50.6-45.8/22.9	1.2	A	390	–	20JM-3-20-18	2,430.00	4,23
	3600	284JM	92.4	86	208-230/460V	65.2-59/29.5	1.2	A	348	–	20JM-3-25-36	2,991.00	4,9,23
25	1800	284JM	93.6	82	208-230/460V	67.5-61/30.5	1.2	A	397	–	20JM-3-25-18	2,957.00	4,9,23
	3600	286JM	91.7	87	208-230/460V	77.8-70.4/35.2	1.2	A	390	–	20JM-3-30-36	3,536.00	4,9,23
30	1800	286JM	93.6	80	208-230/460V	82.9-75/37.5	1.2	A	441	–	20JM-3-30-18	3,754.00	4,9,23
	3600	324JM	93	92	208-230/460V	97.3-88/44	1.2	B	608	Yes	20JM-3-40-36	6,510.00	9,13,16,23
40	1800	324JM	94.1	88	208-230/460V	99.5-90/45	1.3	B	690	Yes	20JM-3-40-18	7,041.00	9,13,16,23
	3600	326JM	93	92	208-230/460V	121.6-110/55	1.2	B	655	Yes	20JM-3-50-36	6,849.00	9,13,16,23
50	1800	326JM	94.5	88	208-230/460V	123.8-112/56	1.3	B	769	Yes	20JM-3-50-18	7,548.00	9,13,16,23

**Performance Data & Mounting Dimensions:** 105 - 108  
230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.

<sup>(a)</sup> See notes on inside back cover.

## JM Close Coupled Pump, NEMA AC 3PH, C-Face with Feet, 575V 1-50 HP

575V MOTORS †													
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V JM Part Number	List Price	Notes (a)
1	1800	143JM	85.5	78	575V	1.12	1.15	B	53	–	20JM-3-1-18/575	737.00	4,33
	3600	143JM	84.5	78	575V	1.68	1.15	B	56	–	20JM-3-1.5-36/575	746.00	4,33
1.5	1800	145JM	87	79	575V	1.6	1.15	B	57	–	20JM-3-1.5-18/575	750.00	4,33
	3600	145JM	86	82	575V	2.16	1.15	B	57	–	20JM-3-2-36/575	795.00	4,33
2	1800	145JM	86.5	83	575V	2.08	1.15	B	59	–	20JM-3-2-18/575	860.00	4,33
	3600	182JM	86.5	82	575V	3.2	1.15	B	76	–	20JM-3-3-36/575	962.00	4,9,33
3	1800	182JM	89.5	75	575V	3.36	1.15	A	102	–	20JM-3-3-18/575	974.00	4,9,33
	3600	184JM	89	85	575V	4.96	1.15	A	102	–	20JM-3-5-36/575	1,163.00	4,9,33
5	1800	184JM	89.5	78	575V	5.36	1.15	A	108	–	20JM-3-5-18/575	1,141.00	4,9,33
	3600	213JM	90	92	575V	6.8	1.15	A	159	–	20JM-3-7.5-36/575	1,355.00	4,9,32
7.5	1800	213JM	91.7	82	575V	7.44	1.15	A	167	–	20JM-3-7.5-18/575	1,470.00	4,9,32
	3600	215JM	90.2	91	575V	9.12	1.15	A	173	–	20JM-3-10-36/575	1,557.00	4,9,32
10	1800	215JM	91.7	82	575V	10	1.15	A	185	–	20JM-3-10-18/575	1,712.00	4,9,32
	3600	254JM	91.7	87	575V	14.08	1.15	B	258	–	20JM-3-15-36/575	2,076.00	4,32
15	1800	254JM	92.4	88	575V	13.84	1.15	A	301	–	20JM-3-15-18/575	2,130.00	4,32
	3600	256JM	92	89	575V	18.32	1.15	B	306	–	20JM-3-20-36/575	2,528.00	4,32
20	1800	256JM	93	88	575V	18.32	1.15	A	390	–	20JM-3-20-18/575	2,545.00	4,32
	3600	284JM	92.4	86	575V	23.6	1.15	A	348	–	20JM-3-25-36/575	3,105.00	4,9,32
25	1800	284JM	93.6	82	575V	24.4	1.15	A	397	–	20JM-3-25-18/575	3,072.00	4,9,32
	3600	286JM	91.7	87	575V	28.16	1.15	A	390	–	20JM-3-30-36/575	3,650.00	4,9,32
30	1800	286JM	93.6	80	575V	30	1.15	A	441	–	20JM-3-30-18/575	3,869.00	4,9,32
	3600	324JM	93	92	575V	35	1.15	B	608	Yes	20JM-3-40-36/575	6,625.00	9,13,16,32
40	1800	324JM	94.1	88	575V	36	1.15	B	690	Yes	20JM-3-40-18/575	7,155.00	9,13,16,32
	3600	326JM	93	92	575V	44	1.15	B	655	Yes	20JM-3-50-36/575	6,963.00	9,13,16,32
50	1800	326JM	94.5	88	575V	45	1.15	B	769	Yes	20JM-3-50-18/575	7,662.00	9,13,16,32

Performance Data & Mounting Dimensions: 105 - 108

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

General Information

### JP Close Coupled Pump – 1-60 HP

3PH TEFC 60 Hz NEMA AC C-Face Footed Motors



Premium Efficient Motors

**Applications:** Designed for continuous duty on close coupled pumps with NEMA JP mounting dimensions which are ideal for fluid circulation and transfer applications ranging from treatment plants to swimming pools.

Severe & Crusher Duty Motors

#### Features

- Inverter Duty Rated: 20:1VT
- Service Factor: up to 1.4
- Design: "B" or "A"
- Protection Degree: IP55
- Enclosure: TEFC
- VPI process applied for best electrical performance
- Oversized bearings on both ends
- Mechanically locked on shaft
- Class "F" insulation with Class "B" rise
- 575V and other ratings available upon request
- Rigid cast iron frame and steel fan guard
- Designed for horizontal and vertical application
- CSA-US certified, DOE approved and CE marked
- 20J Series motors are NEMA Premium<sup>®</sup> marked
- Warranty: 3-Years

Metric IEC Motors

Rollled Steel Motors

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	JP Part Number	List Price	Notes <sup>(a)</sup>
1	1800	143JP	85.5	78	208-230/460V	3.1-2.8/1.4	1.4	B	53	–	20JP-3-1-18	641.00	4,22
	3600	143JP	84.5	78	208-230/460V	4.6-4.2/2.1	1.4	B	56	–	20JP-3-1.5-36	650.00	4,22
1.5	3600	143JP	82.5	87	208-230/460V	4.2-4/2	1.3	B	51	–	40JP-3-1.5-36	454.00	4,22◆
	1800	145JP	87	79	208-230/460V	4.4-4/2	1.4	B	57	–	20JP-3-1.5-18	701.00	4,22
2	1800	145JP	84	79	208-230/460V	4.6-4.2/2.1	1.4	B	54	–	40JP-3-1.5-18	470.00	4,22◆
	3600	145JP	86	82	208-230/460V	6-5.4/2.7	1.4	B	57	–	20JP-3-2-36	702.00	4,22
	3600	145JP	84	87	208-230/460V	5.3-5.2/2.6	1.4	B	57	–	40JP-3-2-36	501.00	4,22◆
	1800	145JP	86.5	83	208-230/460V	5.8-5.2/2.6	1.4	B	59	–	20JP-3-2-18	768.00	4,22
3	1800	145JP	84	82	208-230/460V	5.8-5.4/2.7	1.4	B	56	–	40JP-3-2-18	523.00	4,22◆
	3600	182JP	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	–	20JP-3-3-36	874.00	4,9,22
	3600	182JP	85.5	86	208-230/460V	8.9-7.6/3.8	1.4	B	75	–	40JP-3-3-36	623.00	4,9,22
5	1800	182JP	89.5	75	208-230/460V	9.3-8.4/4.2	1.4	A	102	–	20JP-3-3-18	886.00	4,9,22
	3600	184JP	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	–	20JP-3-5-36	1,080.00	4,9,22
	1800	184JP	89.5	78	208-230/460V	14.8-13.4/6.7	1.3	A	108	–	20JP-3-5-18	1,058.00	4,9,22
7.5	1800	184JP	87.5	86	208-230/460V	13.8-12.4/6.2	1.3	B	103	–	40JP-3-5-18	708.00	4,9,22◆
	3600	213JP	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	–	20JP-3-7.5-36	1,277.00	4,9,23
	1800	213JP	91.7	82	208-230/460V	20.6-18.6/9.3	1.3	A	167	–	20JP-3-7.5-18	1,397.00	4,9,23
10	3600	215JP	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	–	20JP-3-10-36	1,485.00	4,9,23
	1800	215JP	91.7	82	208-230/460V	27.6-25/12.5	1.3	A	185	–	20JP-3-10-18	1,645.00	4,9,23
15	3600	254JP	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	–	20JP-3-15-36	2,021.00	4,23
	1800	254JP	92.4	88	208-230/460V	38.3-34.6/17.3	1.3	A	301	–	20JP-3-15-18	2,076.00	4,23
20	3600	256JP	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	–	20JP-3-20-36	2,486.00	4,23
	1800	256JP	93	88	208-230/460V	50.6-45.8/22.9	1.2	A	390	–	20JP-3-20-18	2,503.00	4,23
25	3600	284JP	92.4	86	208-230/460V	65.2-59/29.5	1.2	A	348	–	20JP-3-25-36	3,080.00	4,9,23
	1800	284JP	93.6	82	208-230/460V	67.5-61/30.5	1.2	A	397	–	20JP-3-25-18	2,900.00	4,9,23
30	3600	286JP	91.7	87	208-230/460V	77.8-70.4/35.2	1.2	A	390	–	20JP-3-30-36	3,642.00	4,9,23
	1800	286JP	93.6	80	208-230/460V	82.9-75/37.5	1.2	A	441	–	20JP-3-30-18	3,868.00	4,9,23

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### Performance Data & Mounting Dimensions: 105 - 108

40JP Series are discontinued. Existing inventory while supplies last.

Non-stock item may be available in limited supply or by special order. Contact Elektrim at 855-Go-Elektrim or support@elektrimmotors.com for details.

230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.

<sup>(a)</sup> See notes on inside back cover.



## JP Close Coupled Pump, NEMA AC 3PH, C-Face with Feet

1-60 HP

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	JP Part Number	List Price	Notes <sup>(a)</sup>
40	3600	324JP	93	92	208-230/460V	97.3-88/44	1.2	B	608	Yes	20JP-3-40-36	6,199.00	9,13,16,23
	1800	324JP	94.1	88	208-230/460V	99.5-90/45	1.3	B	690	Yes	20JP-3-40-18	7,041.00	9,13,16,23
50	3600	326JP	93	92	208-230/460V	121.6-110/55	1.2	B	655	Yes	20JP-3-50-36	6,851.00	9,13,16,23
	1800	326JP	94.5	88	208-230/460V	123.8-112/56	1.3	B	769	Yes	20JP-3-50-18	7,550.00	9,13,16,23
60	3600	364JP	93.6	92	208-230/460V	143.8-130/65	1.2	B	860	Yes	20JP-3-60-36	8,891.00	9,13,16,23
	1800	364JP	95	88	208-230/460V	148.2-134/67	1.2	B	926	Yes	20JP-3-60-18	8,938.00	9,13,16,23

### 575V MOTORS <sup>†</sup>

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Removable Feet	575V JP Part Number	List Price	Notes <sup>(a)</sup>
1	1800	143JP	85.5	78	575V	1.12	1.15	B	53	-	20JP-3-1-18/575	755.00	4,33
	3600	143JP	84.5	78	575V	1.68	1.15	B	56	-	20JP-3-1.5-36/575	765.00	4,33
1.5	3600	143JP	82.5	87	575V	1.6	1.0	B	51	-	40JP-3-1.5-36/575	563.00	4,33◆
	1800	145JP	87	79	575V	1.6	1.15	B	57	-	20JP-3-1.5-18/575	815.00	4,33
2	1800	145JP	84	79	575V	1.7	1.0	B	54	-	40JP-3-1.5-18/575	579.00	4,33◆
	3600	145JP	86	82	575V	2.16	1.15	B	57	-	20JP-3-2-36/575	816.00	4,33
	3600	145JP	84	87	575V	2.1	1.0	B	57	-	40JP-3-2-36/575	610.00	4,33
	1800	145JP	86.5	83	575V	2.08	1.15	B	59	-	20JP-3-2-18/575	882.00	4,33
3	1800	145JP	84	82	575V	2.2	1.0	B	56	-	40JP-3-2-18/575	632.00	4,33◆
	3600	182JP	86.5	82	575V	3.2	1.15	B	76	-	20JP-3-3-36/575	989.00	4,9,33
	3600	182JP	85.5	86	575V	3	1.0	B	75	-	40JP-3-3-36/575	732.00	4,9,33◆
5	1800	182JP	89.5	75	575V	3.36	1.15	A	102	-	20JP-3-3-18/575	1,000.00	4,9,33
	3600	184JP	89	85	575V	4.96	1.15	A	102	-	20JP-3-5-36/575	1,194.00	4,9,33
	1800	184JP	89.5	78	575V	5.36	1.15	A	108	-	20JP-3-5-18/575	1,172.00	4,9,33
7.5	1800	184JP	87.5	86	575V	5	1.0	B	103	-	40JP-3-5-18/575	817.00	4,9,33◆
	3600	213JP	90	92	575V	6.8	1.15	A	159	-	20JP-3-7.5-36/575	1,392.00	4,9,32
10	1800	213JP	91.7	82	575V	7.44	1.15	A	167	-	20JP-3-7.5-18/575	1,511.00	4,9,32
	3600	215JP	90.2	91	575V	9.12	1.15	A	173	-	20JP-3-10-36/575	1,600.00	4,9,32
15	1800	215JP	91.7	82	575V	10	1.15	A	185	-	20JP-3-10-18/575	1,759.00	4,9,32
	3600	254JP	91.7	87	575V	14.08	1.15	B	258	-	20JP-3-15-36/575	2,135.00	4,32
20	1800	254JP	92.4	88	575V	13.84	1.15	A	301	-	20JP-3-15-18/575	2,191.00	4,32
	3600	256JP	92	89	575V	18.32	1.15	B	306	-	20JP-3-20-36/575	2,600.00	4,32
25	1800	256JP	93	88	575V	18.32	1.15	A	390	-	20JP-3-20-18/575	2,617.00	4,32
	3600	284JP	92.4	86	575V	23.6	1.15	A	348	-	20JP-3-25-36/575	3,195.00	4,9,32
30	1800	284JP	93.6	82	575V	24.4	1.15	A	397	-	20JP-3-25-18/575	3,160.00	4,9,32
	3600	286JP	91.7	87	575V	28.16	1.15	A	390	-	20JP-3-30-36/575	3,756.00	4,9,32
40	1800	286JP	93.6	80	575V	30	1.15	A	441	-	20JP-3-30-18/575	3,982.00	4,9,32
	3600	324JP	93	92	575V	35	1.15	B	608	Yes	20JP-3-40-36/575	6,624.00	9,13,16,32
50	1800	324JP	94.1	88	575V	36	1.15	B	690	Yes	20JP-3-40-18/575	7,155.00	9,13,16,32
	3600	326JP	93	92	575V	44	1.15	B	655	Yes	20JP-3-50-36/575	6,965.00	9,13,16,32
60	1800	326JP	94.5	88	575V	45	1.15	B	769	Yes	20JP-3-50-18/575	7,664.00	9,13,16,32
	3600	364JP	93.6	92	575V	52	1.15	B	860	Yes	20JP-3-60-36/575	9,005.00	9,13,16,32
	1800	364JP	95	88	575V	54	1.15	B	926	Yes	20JP-3-60-18/575	9,053.00	9,13,16,32

**Performance Data & Mounting Dimensions:** 105 - 108

◆ = Discontinued item, available while supplies last.

■ Non-stock item may be available in limited supply or by special order. Contact Elektrim at 855-Go-Elektrim or support@elektrimmotors.com for details.

230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.

<sup>†</sup> 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

<sup>(a)</sup> See notes on inside back cover.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

General Information

### SAE Hydraulic Pump Motors – 15 HP

3PH TEFC 60 Hz NEMA AC Footed Motors



Premium Efficient Motors

**Applications:** Designed for intermittent duty applications such as balers, lifts, trash compactors and other machinery.

Severe & Crusher Duty Motors

#### Features

- Base mount with SAE A pump face mount and shaft (SAE B by special order)
- Lightweight powder coated rolled steel TEFC frame with cast iron end bells for added stability
- Steel fan guard
- F3 rear top-mounted double gasketed junction box
- Double shielded greased-for-life bearings with oversized bearing on DE
- Precision balanced low vibration level
- Quiet operation
- Class "F" insulation with rise below Class "B"
- Vacuum Pressure Impregnation (VPI)
- Rust protected interior and exterior paint
- IP55 environmental protection
- Double drilled 213YZ/215YZ frame
- Bi-directional fan for counter and clockwise operation
- UL and CSA certified
- Warranty: 1-Year

Metric IEC Motors

Roller Steel Motors

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	SAE Mount	Net Weight	JM Part Number	List Price	Notes <sup>(a)</sup>
15	1800	215YZ	87	84	208-230/460V	42-38/19	1.0	A 2-Bolt	143	<b>36TC-3-15-18WP</b>	1,278.00	

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### NEW PRODUCT

**Performance Data & Mounting Dimensions:** 122

<sup>(a)</sup> See notes on inside back cover.

## Design D Oil Well Pump – 3-100 HP

3PH TEFC 60 Hz NEMA AC Foot Mounted Motors

**Applications:** Designed with greater versatility and added benefit for pump jack and other oil field applications requiring a high slip.



### Features

- Rated for Class I, Div II, Group ABCD, Temp Code T3C
- Inverter Duty Rated: 5:1CT & 10:1VT
- Service Factor: 1.15
- Design: High Torque “D” (5-8% Slip)
- Protection Degree: IP55
- Enclosure: TEFC
- VPI process applied for best electrical performance
- Corrosion resistant epoxy coated
- F2 mounting position (convertible to F1)
- Double delta/delta/wye connection (12 leads)
- Rigid cast iron construction
- Steel fan guard and junction box
- Oversized bearings on both ends
- Double drilled feet
- Shaft material: 1045 carbon steel
- Designed for horizontal and vertical applications
- Drainage holes at motor’s lowest point
- Grounding terminal inside junction box and on frame
- PTC thermistors in windings
- Stainless steel nameplate with connection diagram
- CSA-US approved and CE marked
- Epoxy coated RAL7035 - light gray
- Warranty: 3-Years

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes (a)
3	1200	213T	78.8	80	230/460/796	8.8/4.4/2.5	1.15	D	110	34NFM-3-3-12	786.00	15
5	1200	215T	81	85	230/460/796	13.6/6.8/3.9	1.15	D	137	34NFM-3-5-12	930.00	15
7.5	1200	254T	81	80	230/460/796	21.6/11/6.2	1.15	D	213	34NFM-3-7.5-12	1,165.00	15
10	1200	256T	82	83	230/460/796	27.6/13.8/8	1.15	D	254	34NFM-3-10-12	1,585.00	15
15	1200	284T	86	90	230/460/796	36/18/10.4	1.15	D	335	34NFM-3-15-12	1,992.00	15
20	1200	286T	88	90	230/460/796	47/23.5/13.6	1.15	D	399	34NFM-3-20-12	2,446.00	15
25	1200	324T	88	83	230/460/796	64/32/18.5	1.15	D	540	34NFM-3-25-12	2,860.00	16
30	1200	326T	87	85	230/460/796	76/38/22	1.15	D	586	34NFM-3-30-12	3,389.00	16
40	1200	365T	87	88	230/460/796	100/50/29	1.15	D	743	34NFM-3-40-12	4,582.00	16
50	1200	404T	87	86	230/460/796	126/63/36.4	1.15	D	1030	34NFM-3-50-12	5,141.00	16
60	1200	405T	87	86	230/460/796	156/78/45	1.15	D	1129	34NFM-3-60-12	5,463.00	16
75	1200	444T	89	87	230/460/796	180/90/52	1.15	D	1568	34NFM-3-75-12	7,903.00	16
100	1200	445T	89	88	230/460/796	240/120/69	1.15	D	1837	34NFM-3-100-12	8,935.00	16

**Performance Data & Mounting Dimensions:** 109

<sup>(a)</sup> See notes on inside back cover.

General  
Information

### Brake Motor – 1-30 HP

3PH TEFC 60 Hz NEMA AC Foot Mounted Motors



Premium  
Efficient Motors

**Applications:** Outstanding durability and performance ideal for hoists, cranes, conveyors, machine tools, speed reducers and other industrial applications where a quick stop and positive holding torque are necessary.

Severe & Crusher  
Duty Motors

#### Features

- Inverter Duty Rated: 10:1CT & 20:1VT
- Service Factor: up to 1.4
- Design: "B" or "A"
- Protection Degree: IP55
- Enclosure: TEFC
- High locked rotor and brake torque
- VPI process applied for best electrical performance
- DC Disc brake with 460V AC rectifier, 230V AC rectifier available upon request
- Class "F" insulation with rise below Class "B"
- Manual release
- Oversized double-shielded bearings
- Rigid cast iron frame
- F1 / F2 convertible
- Drain plugs
- 575V and other ratings available upon request
- CSA-US, DOE approved and CE marked
- 20N Series motors are NEMA Premium<sup>®</sup> marked
- Warranty: 3-Years

Metric IEC  
Motors

Rollled Steel  
Motors

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	Footed Part Number	List Price	Notes <sup>(a)</sup>
1	1800	143T	85.5	78	208-230/460V	3.1-2.8/1.4	1.4	B	53	20NFB-3-1-18	1,571.00	4,22
	1200	145T	82.5	68	208-230/460V	3.8-3.4/1.7	1.4	B	55	20NFB-3-1-12	1,617.00	4,22
	3600	143T	84.5	78	208-230/460V	4.6-4.2/2.1	1.4	B	56	20NFB-3-1.5-36	1,526.00	4,22
1.5	1800	145T	87	79	208-230/460V	4.4-4/2	1.4	B	57	20NFB-3-1.5-18	1,621.00	4,22
	1200	182T	87.5	68	208-230/460V	5.3-4.8/2.4	1.4	B	85	20NFB-3-1.5-12	2,173.00	4,9,22
	3600	145T	86	82	208-230/460V	6-5.4/2.7	1.4	B	57	20NFB-3-2-36	1,588.00	4,22
2	1800	145T	86.5	83	208-230/460V	5.8-5.2/2.6	1.4	B	59	20NFB-3-2-18	1,662.00	4,22
	1200	184T	88.5	72	208-230/460V	6.6-6/3	1.4	B	98	20NFB-3-2-12	2,334.00	4,9,22
	3600	182T	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	20NFB-3-3-36	2,113.00	4,9,22
3	1800	182T	89.5	75	208-230/460V	9.3-8.4/4.2	1.4	A	102	20NFB-3-3-18	2,267.00	4,9,22
	1200	213T	89.5	74	208-230/460V	9.3-8.4/4.2	1.4	B	205	20NFB-3-3-12	2,733.00	4,9,23
	3600	184T	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	20NFB-3-5-36	2,387.00	4,9,22
5	1800	184T	89.5	78	208-230/460V	14.8-13.4/6.7	1.3	A	108	20NFB-3-5-18	2,466.00	4,9,22
	1200	215T	89.5	75	208-230/460V	15.5-14/7	1.3	B	220	20NFB-3-5-12	3,104.00	4,9,23
	3600	213T	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	20NFB-3-7.5-36	2,864.00	4,9,23
7.5	1800	213T	91.7	82	208-230/460V	20.6-18.6/9.3	1.3	A	167	20NFB-3-7.5-18	3,096.00	4,9,23
	1200	254T	91	74	208-230/460V	23-20.8/10.4	1.3	A	321	20NFB-3-7.5-12	4,233.00	4,23
	3600	215T	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	20NFB-3-10-36	3,122.00	4,9,23
10	1800	215T	91.7	82	208-230/460V	27.6-25/12.5	1.3	A	185	20NFB-3-10-18	3,145.00	4,9,23
	1200	256T	91	77	208-230/460V	29.6-26.8/13.4	1.3	A	363	20NFB-3-10-12	4,318.00	4,23
	3600	254T	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	20NFB-3-15-36	4,238.00	4,23
15	1800	254T	92.4	88	208-230/460V	38.3-34.6/17.3	1.3	A	301	20NFB-3-15-18	4,528.00	4,23
	1200	284T	91.7	79	208-230/460V	43.1-39/19.5	1.3	A	371	20NFB-3-15-12	5,706.00	4,9,23
	3600	256T	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	20NFB-3-20-36	4,610.00	4,23
20	1800	256T	93	88	208-230/460V	50.6-45.8/22.9	1.2	A	390	20NFB-3-20-18	5,057.00	4,23
	1200	286T	91.7	80	208-230/460V	56.4-51/25.5	1.2	A	421	20NFB-3-20-12	6,527.00	4,9,23
	3600	284TS	92.4	86	208-230/460V	65.2-59/29.5	1.2	A	348	20NFB-3-25-36	5,208.00	4,9,23
25	1800	284T	93.6	82	208-230/460V	67.5-61/30.5	1.2	A	397	20NFB-3-25-18	6,023.00	4,9,23
	3600	286TS	91.7	87	208-230/460V	77.8-70.4/35.2	1.2	A	390	20NFB-3-30-36	5,730.00	4,9,23
	1800	286T	93.6	80	208-230/460V	82.9-75/37.5	1.2	A	441	20NFB-3-30-18	6,268.00	4,9,23

Stainless Steel  
Washdown Motors

Pump  
Motors

Brake  
Motors

Parts and  
Accessories

Technical  
Data

#### Performance Data & Mounting Dimensions: 112 - 114

Motors can be modified from Footed to C-Face and vice versa.  
230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.

<sup>(a)</sup> See notes on inside back cover.

# Brake Motors, NEMA AC 3PH, Foot Mounted, 575V

1-30 HP

575V MOTORS †												
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	575V Footed Part Number	List Price	Notes (a)
1	1800	143T	85.5	78	575V	1.12	1.15	B	53	20NFB-3-1-18/575	1,686.00	4,33
	1200	145T	82.5	68	575V	1.36	1.15	B	55	20NFB-3-1-12/575	1,732.00	4,33
1.5	3600	143T	84.5	78	575V	1.68	1.15	B	56	20NFB-3-1.5-36/575	1,641.00	4,33
	1800	145T	87	79	575V	1.6	1.15	B	57	20NFB-3-1.5-18/575	1,735.00	4,33
	1200	182T	87.5	68	575V	1.92	1.15	B	85	20NFB-3-1.5-12/575	2,287.00	4,9,33
2	3600	145T	86	82	575V	2.16	1.15	B	57	20NFB-3-2-36/575	1,703.00	4,33
	1800	145T	86.5	83	575V	2.08	1.15	B	59	20NFB-3-2-18/575	1,776.00	4,33
	1200	184T	88.5	72	575V	2.4	1.15	B	98	20NFB-3-2-12/575	2,448.00	4,9,33
3	3600	182T	86.5	82	575V	3.2	1.15	B	76	20NFB-3-3-36/575	2,228.00	4,9,33
	1800	182T	89.5	75	575V	3.36	1.15	A	102	20NFB-3-3-18/575	2,382.00	4,9,33
	1200	213T	89.5	74	575V	3.36	1.15	B	205	20NFB-3-3-12/575	2,847.00	4,9,32
5	3600	184T	89	85	575V	4.96	1.15	A	102	20NFB-3-5-36/575	2,502.00	4,9,33
	1800	184T	89.5	78	575V	5.36	1.15	A	108	20NFB-3-5-18/575	2,580.00	4,9,33
	1200	215T	89.5	75	575V	5.6	1.15	B	220	20NFB-3-5-12/575	3,219.00	4,9,32
7.5	3600	213T	90	92	575V	6.8	1.15	A	159	20NFB-3-7.5-36/575	2,978.00	4,9,32
	1800	213T	91.7	82	575V	7.44	1.15	A	167	20NFB-3-7.5-18/575	3,210.00	4,9,32
	1200	254T	91	74	575V	8.32	1.15	A	321	20NFB-3-7.5-12/575	4,347.00	4,32
10	3600	215T	90.2	91	575V	9.12	1.15	A	173	20NFB-3-10-36/575	3,237.00	4,9,32
	1800	215T	91.7	82	575V	10	1.15	A	185	20NFB-3-10-18/575	3,260.00	4,9,32
	1200	256T	91	77	575V	10.72	1.15	A	363	20NFB-3-10-12/575	4,433.00	4,32
15	3600	254T	91.7	87	575V	14.08	1.15	B	258	20NFB-3-15-36/575	4,353.00	4,32
	1800	254T	92.4	88	575V	13.84	1.15	A	301	20NFB-3-15-18/575	4,643.00	4,32
	1200	284T	91.7	79	575V	15.6	1.15	A	371	20NFB-3-15-12/575	5,821.00	4,9,32
20	3600	256T	92	89	575V	18.32	1.15	B	306	20NFB-3-20-36/575	4,724.00	4,32
	1800	256T	93	88	575V	18.32	1.15	A	390	20NFB-3-20-18/575	5,172.00	4,32
	1200	286T	91.7	80	575V	20.4	1.15	A	421	20NFB-3-20-12/575	6,642.00	4,9,32
25	3600	284TS	92.4	86	575V	23.6	1.15	A	348	20NFB-3-25-36/575	5,323.00	4,9,32
	1800	284T	93.6	82	575V	24.4	1.15	A	397	20NFB-3-25-18/575	6,138.00	4,9,32
30	3600	286TS	91.7	87	575V	28.16	1.15	A	390	20NFB-3-30-36/575	5,845.00	4,9,32
	1800	286T	93.6	80	575V	30	1.15	A	441	20NFB-3-30-18/575	6,382.00	4,9,32

**Performance Data & Mounting Dimensions:** 112 - 114

Motors can be modified from Footed to C-Face and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rollled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

General  
Information

### Brake Motor – 1-30 HP

3PH TEFC 60 Hz NEMA AC C-Face Motors



Premium  
Efficient Motors

**Applications:** Outstanding durability and performance ideal for hoists, cranes, conveyors, machine tools, speed reducers and other industrial applications where a quick stop and positive holding torque are necessary.

Severe & Crusher  
Duty Motors

#### Features

- Inverter Duty Rated: 10:1CT & 20:1VT
- Service Factor: up to 1.4
- Design: "B" or "A"
- Protection Degree: IP55
- Enclosure: TEFC
- High locked rotor and brake torque
- VPI process applied for best electrical performance
- DC Disc brake with 460V AC rectifier, 230V AC rectifier available upon request
- Class "F" insulation with rise below Class "B"
- Manual release
- Oversized double-shielded bearings
- Rigid cast iron frame
- F1 / F2 convertible
- Drain plugs
- 575V and other ratings available upon request
- CSA-US, DOE approved and CE marked
- 20N Series motors are NEMA Premium<sup>®</sup> marked
- Warranty: 3-Years

Metric IEC  
Motors

Roller Steel  
Motors

HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	C-Face Part Number	List Price	Notes <sup>(a)</sup>
1	1800	143TC	85.5	78	208-230/460V	3.1-2.8/1.4	1.4	B	53	20NCB-3-1-18	1,713.00	4,22
	1200	145TC	82.5	68	208-230/460V	3.8-3.4/1.7	1.4	B	55	20NCB-3-1-12	1,762.00	4,22
	3600	143TC	84.5	78	208-230/460V	4.6-4.2/2.1	1.4	B	56	20NCB-3-1.5-36	1,664.00	4,22
1.5	1800	145TC	87	79	208-230/460V	4.4-4/2	1.4	B	57	20NCB-3-1.5-18	1,767.00	4,22
	1200	182TC	87.5	68	208-230/460V	5.3-4.8/2.4	1.4	B	85	20NCB-3-1.5-12	2,369.00	4,9,22
	3600	145TC	86	82	208-230/460V	6-5.4/2.7	1.4	B	57	20NCB-3-2-36	1,731.00	4,22
2	1800	145TC	86.5	83	208-230/460V	5.8-5.2/2.6	1.4	B	59	20NCB-3-2-18	1,812.00	4,22
	1200	184TC	88.5	72	208-230/460V	6.6-6/3	1.4	B	98	20NCB-3-2-12	2,544.00	4,9,22
	3600	182TC	86.5	82	208-230/460V	8.8-8/4	1.4	B	76	20NCB-3-3-36	2,303.00	4,9,22
3	1800	182TC	89.5	75	208-230/460V	9.3-8.4/4.2	1.4	A	102	20NCB-3-3-18	2,471.00	4,9,22
	1200	213TC	89.5	74	208-230/460V	9.3-8.4/4.2	1.4	B	205	20NCB-3-3-12	2,978.00	4,9,23
	3600	184TC	89	85	208-230/460V	13.7-12.4/6.2	1.4	A	102	20NCB-3-5-36	2,602.00	4,9,22
5	1800	184TC	89.5	78	208-230/460V	14.8-13.4/6.7	1.3	A	108	20NCB-3-5-18	2,688.00	4,9,22
	1200	215TC	89.5	75	208-230/460V	15.5-14/7	1.3	B	220	20NCB-3-5-12	3,384.00	4,9,23
	3600	213TC	90	92	208-230/460V	18.8-17/8.5	1.3	A	159	20NCB-3-7.5-36	3,121.00	4,9,23
7.5	1800	213TC	91.7	82	208-230/460V	20.6-18.6/9.3	1.3	A	167	20NCB-3-7.5-18	3,375.00	4,9,23
	1200	254TC	91	74	208-230/460V	23-20.8/10.4	1.3	A	321	20NCB-3-7.5-12	4,614.00	4,23
	3600	215TC	90.2	91	208-230/460V	25.2-22.8/11.4	1.3	A	173	20NCB-3-10-36	3,404.00	4,9,23
10	1800	215TC	91.7	82	208-230/460V	27.6-25/12.5	1.3	A	185	20NCB-3-10-18	3,429.00	4,9,23
	1200	256TC	91	77	208-230/460V	29.6-26.8/13.4	1.3	A	363	20NCB-3-10-12	4,708.00	4,23
	3600	254TC	91.7	87	208-230/460V	38.9-35.2/17.6	1.3	B	258	20NCB-3-15-36	4,619.00	4,23
15	1800	254TC	92.4	88	208-230/460V	38.3-34.6/17.3	1.3	A	301	20NCB-3-15-18	4,937.00	4,23
	1200	284TC	91.7	79	208-230/460V	43.1-39/19.5	1.3	A	371	20NCB-3-15-12	6,220.00	4,9,23
	3600	256TC	92	89	208-230/460V	50.6-45.8/22.9	1.3	B	306	20NCB-3-20-36	5,025.00	4,23
20	1800	256TC	93	88	208-230/460V	50.6-45.8/22.9	1.2	A	390	20NCB-3-20-18	5,513.00	4,23
	1200	286TC	91.7	80	208-230/460V	56.4-51/25.5	1.2	A	421	20NCB-3-20-12	7,115.00	4,9,23
	3600	284TSC	92.4	86	208-230/460V	65.2-59/29.5	1.2	A	348	20NCB-3-25-36	5,678.00	4,9,23
25	1800	284TC	93.6	82	208-230/460V	67.5-61/30.5	1.2	A	397	20NCB-3-25-18	6,565.00	4,9,23
	3600	286TSC	91.7	87	208-230/460V	77.8-70.4/35.2	1.2	A	390	20NCB-3-30-36	6,247.00	4,9,23
	1800	286TC	93.6	80	208-230/460V	82.9-75/37.5	1.2	A	441	20NCB-3-30-18	6,832.00	4,9,23

Stainless Steel  
Washdown Motors

Pump  
Motors

Brake  
Motors

Parts and  
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Technical  
Data

#### Performance Data & Mounting Dimensions: 112 - 114

Motors can be modified from Footed to C-Face and vice versa.  
230/460V 60 Hz Motors are dual rated for 190/380V 50 Hz.

<sup>(a)</sup> See notes on inside back cover.

Brake Motors, NEMA AC 3PH, C-Face with Feet, 575V

1-30 HP

575V MOTORS †												
HP	RPM	Frame	EFF	PF	Voltage	Full Load Amps	Service Factor	NEMA Design	Net Weight	575V C-Face Part Number	List Price	Notes (a)
1	1800	143TC	85.5	78	575V	1.12	1.15	B	53	20NCB-3-1-18/575	1,827.00	4,33
	1200	145TC	82.5	68	575V	1.36	1.15	B	55	20NCB-3-1-12/575	1,877.00	4,33
1.5	3600	143TC	84.5	78	575V	1.68	1.15	B	56	20NCB-3-1.5-36/575	1,778.00	4,33
	1800	145TC	87	79	575V	1.6	1.15	B	57	20NCB-3-1.5-18/575	1,881.00	4,33
	1200	182TC	87.5	68	575V	1.92	1.15	B	85	20NCB-3-1.5-12/575	2,484.00	4,9,33
2	3600	145TC	86	82	575V	2.16	1.15	B	57	20NCB-3-2-36/575	1,845.00	4,33
	1800	145TC	86.5	83	575V	2.08	1.15	B	59	20NCB-3-2-18/575	1,926.00	4,33
	1200	184TC	88.5	72	575V	2.4	1.15	B	98	20NCB-3-2-12/575	2,658.00	4,9,33
3	3600	182TC	86.5	82	575V	3.2	1.15	B	76	20NCB-3-3-36/575	2,418.00	4,9,33
	1800	182TC	89.5	75	575V	3.36	1.15	A	102	20NCB-3-3-18/575	2,586.00	4,9,33
	1200	213TC	89.5	74	575V	3.36	1.15	B	205	20NCB-3-3-12/575	3,093.00	4,9,32
5	3600	184TC	89	85	575V	4.96	1.15	A	102	20NCB-3-5-36/575	2,717.00	4,9,33
	1800	184TC	89.5	78	575V	5.36	1.15	A	108	20NCB-3-5-18/575	2,803.00	4,9,33
	1200	215TC	89.5	75	575V	5.6	1.15	B	220	20NCB-3-5-12/575	3,498.00	4,9,32
7.5	3600	213TC	90	92	575V	6.8	1.15	A	159	20NCB-3-7.5-36/575	3,236.00	4,9,32
	1800	213TC	91.7	82	575V	7.44	1.15	A	167	20NCB-3-7.5-18/575	3,490.00	4,9,32
	1200	254TC	91	74	575V	8.32	1.15	A	321	20NCB-3-7.5-12/575	4,729.00	4,32
10	3600	215TC	90.2	91	575V	9.12	1.15	A	173	20NCB-3-10-36/575	3,518.00	4,9,32
	1800	215TC	91.7	82	575V	10	1.15	A	185	20NCB-3-10-18/575	3,543.00	4,9,32
	1200	256TC	91	77	575V	10.72	1.15	A	363	20NCB-3-10-12/575	4,822.00	4,32
15	3600	254TC	91.7	87	575V	14.08	1.15	B	258	20NCB-3-15-36/575	4,734.00	4,32
	1800	254TC	92.4	88	575V	13.84	1.15	A	301	20NCB-3-15-18/575	5,051.00	4,32
	1200	284TC	91.7	79	575V	15.6	1.15	A	371	20NCB-3-15-12/575	6,334.00	4,9,32
20	3600	256TC	92	89	575V	18.32	1.15	B	306	20NCB-3-20-36/575	5,139.00	4,32
	1800	256TC	93	88	575V	18.32	1.15	A	390	20NCB-3-20-18/575	5,627.00	4,32
	1200	286TC	91.7	80	575V	20.4	1.15	A	421	20NCB-3-20-12/575	7,230.00	4,9,32
25	3600	284TSC	92.4	86	575V	23.6	1.15	A	348	20NCB-3-25-36/575	5,792.00	4,9,32
	1800	284TC	93.6	82	575V	24.4	1.15	A	397	20NCB-3-25-18/575	6,680.00	4,9,32
30	3600	286TSC	91.7	87	575V	28.16	1.15	A	390	20NCB-3-30-36/575	6,361.00	4,9,32
	1800	286TC	93.6	80	575V	30	1.15	A	441	20NCB-3-30-18/575	6,946.00	4,9,32

Performance Data & Mounting Dimensions: 112 - 114

Motors can be modified from Footed to C-Face and vice versa.

† 575V motors are re-rated from stock models in (1) business day, and is subject to availability at Illinois warehouse.

(a) See notes on inside back cover.

General  
Information

### Premium Motor Spare Parts

Spare part number is applicable for **Motor Series** designated in column header. Series is indicated by motor prefix.

Premium  
Efficient Motors

Severe & Crusher  
Duty Motors

Metric IEC  
Motors

Roller Steel  
Motors

Stainless Steel  
Washdown Motors

Pump  
Motors

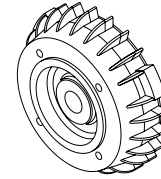
Brake  
Motors

Parts and  
Accessories

Technical  
Data

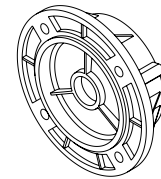
#### Premium Motor – C-Flanges

Frame	20N Series	List Price	31N Series	List Price	32N Series	List Price
140TC	22C-FLA-140	185.00	45C-FLA-140	233.00	46C-FLA-140	135.00
180TC	22C-FLA-180	222.00	45C-FLA-180	233.00	46C-FLA-180	215.00
210TC	22C-FLA-210	259.00	45C-FLA-210	389.00	46C-FLA-210	256.00
250TC	22C-FLA-250	407.00	45C-FLA-250	699.00	46C-FLA-250	430.00
280TC	22C-FLA-280	518.00	45C-FLA-280	1,010.00	46C-FLA-280	524.00
320TC	22C-FLA-320	1,214.00	45C-FLA-320	1,243.00	46C-FLA-320	820.00
360TC	22C-FLA-360	1,354.00	45C-FLA-360	1,290.00	46C-FLA-360	1,290.00
400TC	22C-FLA-400	1,539.00	45C-FLA-400	1,385.00	46C-FLA-400	1,759.00
440TC	22C-FLA-440T	2,376.00	45C-FLA-440T	1,805.00	46C-FLA-445T	2,229.00
440TSC	22C-FLA-440TS	2,376.00	45C-FLA-440TS	1,805.00	46C-FLA-440TS	2,229.00
449TC	–	–	45C-FLA-449T	1,805.00	46C-FLA-449T	2,229.00



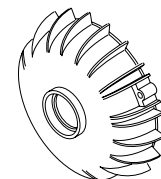
#### Premium Motor – D-Flanges

Frame	20N Series	List Price	31N Series	List Price	32N Series	List Price
140TD	–	–	45D-FLA-140	233.00	–	–
180TD	–	–	45D-FLA-180	233.00	–	–
210TD	–	–	45D-FLA-210	389.00	–	–
250TD	–	–	45D-FLA-250	699.00	–	–
280TD	–	–	45D-FLA-280	1,010.00	–	–
320TD	22D-FLA-320	1,214.00	45D-FLA-320	1,243.00	–	–
360TD	22D-FLA-360	1,332.00	45D-FLA-360	1,582.00	–	–
400TD	22D-FLA-400	1,504.00	–	–	–	–
440TD	22D-FLA-440T	2,244.00	–	–	–	–



#### Premium Motor – Drive End Brackets

Frame	20N Series	List Price	31N Series	List Price	32N Series	List Price
140T	22BR-D-140	111.00	45BR-D-140	233.00	46BR-D-140	129.00
180T	22BR-D-180	126.00	45BR-D-180	233.00	46BR-D-180	207.00
210T	22BR-D-210	163.00	45BR-D-210	389.00	46BR-D-210	256.00
250T	22BR-D-250	222.00	45BR-D-250	699.00	46BR-D-250	427.00
280T	22BR-D-280	281.00	45BR-D-280	1,010.00	46BR-D-280	516.00
320T	22BR-D-320	525.00	45BR-D-320	1,243.00	46BR-D-320	820.00
360T	22BR-D-360	644.00	45BR-D-360	1,290.00	46BR-D-360	1,284.00
400T	22BR-D-400	770.00	45BR-D-400	1,385.00	46BR-D-400	1,757.00
440T	22BR-D-440T	1,103.00	45BR-D-440T	1,805.00	46BR-D-445T	2,229.00
440TS	22BR-D-440TS	1,103.00	45BR-D-440TS	1,805.00	46BR-D-440TS	2,229.00
449T	–	–	45BR-D-449T	1,805.00	46BR-D-449T	2,229.00

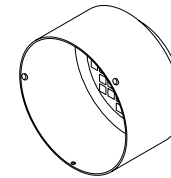
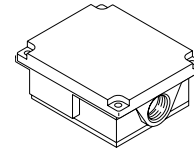




## Premium Motor Spare Parts – Continued

Spare part number is applicable for **Motor Series** designated in column header. Series is indicated by motor prefix.

Premium Motor – Junction Box						
Frame	20N Series	List Price	31N Series	List Price	32N Series	List Price
140	22JUN-B-140	202.00	45JUN-B-180	48.00	46JUN-B-180	68.00
180	22JUN-B-210	231.00	45JUN-B-180	48.00	46JUN-B-180	68.00
210	22JUN-B-210	231.00	45JUN-B-210	62.00	46JUN-B-250	148.00
250	22JUN-B-280	355.00	45JUN-B-250	110.00	46JUN-B-250	148.00
280	22JUN-B-280	355.00	45JUN-B-280	205.00	46JUN-B-320	215.00
320	22JUN-B-320	585.00	45JUN-B-320	341.00	46JUN-B-320	215.00
360	22JUN-B-360	681.00	45JUN-B-360	518.00	46JUN-B-440	403.00
400	22JUN-B-400	866.00	45JUN-B-400	600.00	46JUN-B-440	403.00
440	22JUN-B-440	866.00	45JUN-B-440	600.00	46JUN-B-440	403.00

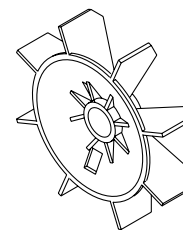


Premium Motor – Rolled Steel Fan Guards						
Frame	20N Series	List Price	31N Series	List Price	32N Series	List Price
140	22F-GUA-140	94.00	45F-GUA-140	32.00	46F-GUA-140	55.00
180	22F-GUA-180	101.00	45F-GUA-180	75.00	46F-GUA-180	70.00
210	22F-GUA-210	171.00	45F-GUA-210	130.00	46F-GUA-210	83.00
250	22F-GUA-250	218.00	45F-GUA-250	243.00	46F-GUA-250	138.00
280	22F-GUA-280	275.00	45F-GUA-280	341.00	46F-GUA-280	193.00
320	22F-GUA-320	429.00	45F-GUA-320	531.00	46F-GUA-320	249.00
360	22F-GUA-360	533.00	45F-GUA-360	553.00	46F-GUA-360	345.00
400	22F-GUA-400	592.00	45F-GUA-400	600.00	46F-GUA-400	1,612.00
440	22F-GUA-440	703.00	45F-GUA-440	600.00	46F-GUA-440	1,880.00

### Cast Iron Fan Guards

31N Series	List Price
45F-GUA-140-C	98.00
45F-GUA-180-C	181.00
45F-GUA-210-C	311.00
45F-GUA-250-C	524.00
45F-GUA-280-C	605.00
45F-GUA-320-C	784.00
45F-GUA-360-C	938.00
45F-GUA-400-C	1,010.00
45F-GUA-440-C	1,010.00

Premium Motor – Fans						
Frame	20N Series	List Price	31N Series	List Price	32N Series	List Price
140-2P	22FAN-140-2	74.00	45FAN-180-2	38.00	44FAN-140-4	29.00
140-4,6P	22FAN-140-4	74.00	45FAN-180-2	38.00	44FAN-140-4	29.00
180-2P	22FAN-180-2	87.00	45FAN-180-2	38.00	44FAN-180-2	29.00
180-4,6P	22FAN-180-4	87.00	45FAN-180-4	54.00	44FAN-180-2	29.00
210-2P	22FAN-180-2	87.00	45FAN-180-4	54.00	44FAN-210-2	54.00
210-4,6P	22FAN-180-2	87.00	45FAN-180-4	54.00	44FAN-210-2	54.00
250-2P	22FAN-250-2	202.00	45FAN-250-2	84.00	44FAN-250-2	81.00
250-4,6P	22FAN-250-4	202.00	45FAN-250-4	114.00	44FAN-250-2	81.00
280-2P	22FAN-250-2	202.00	45FAN-250-4	114.00	44FAN-280-2	107.00
280-4,6P	22FAN-250-4	202.00	45FAN-250-4	114.00	44FAN-280-2	107.00
320-2P	22FAN-320-2	377.00	45FAN-250-4	114.00	44FAN-320-2	162.00
320-4,6P	22FAN-320-4	377.00	45FAN-320-4	228.00	44FAN-320-2	162.00
360-2P	22FAN-320-2	377.00	45FAN-250-4	114.00	44FAN-360-2	202.00
360-4,6P	22FAN-320-4	377.00	45FAN-320-4	228.00	44FAN-360-4	202.00
400-2P	22FAN-320-2	377.00	45FAN-400-2	250.00	44FAN-400-2	243.00
400-4,6P	22FAN-400-4	407.00	45FAN-400-4	250.00	44FAN-400-2	243.00
440-2P	22FAN-440-2	407.00	45FAN-440-2	250.00	44FAN-400-2	243.00
440-4,6P	22FAN-440-4	407.00	45FAN-440-4	250.00	44FAN-400-2	243.00



General Information

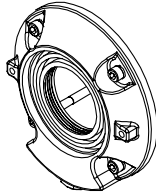
### Premium Motor Spare Parts – Continued

Spare part number is applicable for **Motor Series** designated in column header. Series is indicated by motor prefix.

Premium Efficient Motors

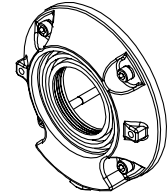
#### Premium – DE Ext Bearing Caps

Frame	20N Series	List Price
320	22BC-D-320	215.00
360	22BC-D-360	215.00
400	22BC-D-400	215.00
440T	22BC-D-440T	244.00
440TS	22BC-D-400	215.00



#### Premium – NDE Ext Bearing Cap

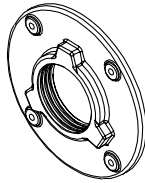
Frame	20N Series	List Price
320	22BC-ND-320	215.00
360	22BC-ND-360	215.00
400	22BC-ND-400	215.00
440T	22BC-ND-440T	244.00
440TS	22BC-ND-400	215.00



Severe & Crusher Duty Motors

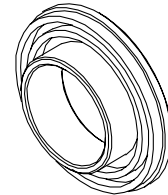
#### Premium – Inner Bearing Caps

Frame	20N Series	List Price
320	22BC-I-320	133.00
360	22BC-I-360	133.00
400	22BC-I-400	141.00
440T	22BC-I-440T	192.00
440TS	22BC-I-400	141.00



#### Premium – Labyrinth Ring

Frame	20N Series	List Price
320	22LABYR-320	45.00
360	22LABYR-360	83.00
400	22LABYR-400	190.00
440T	22LABYR-440	227.00
440TS	22LABYR-400	190.00

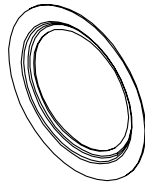


Metric IEC Motors

Roller Steel Motors

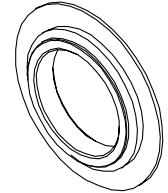
#### Premium – Grease Retainer

Frame	20N Series	List Price
320	42GRT-320	39.00
360	42GRT-360	41.00
400	42GRT-400	43.00
440T	42GRT-440	46.00
440TS	42GRT-400	43.00



#### Premium – Bearing Slinger

Frame	20N Series	List Price
320	42SLIN-320	135.00
360	42SLIN-360	140.00
400	42SLIN-400	143.00
440T	42SLIN-440	147.00
440TS	42SLIN-400	143.00

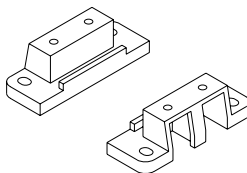


Stainless Steel Washdown Motors

Pump Motors

#### Premium – Removable Feet

Frame	20N Series	List Price
320	22FEET-320	480.00
360	22FEET-360	600.00
400	22FEET-400	660.00
440	22FEET-440	900.00
447	22FEET-447	1,442.00



Brake Motors

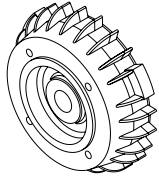
Parts and Accessories

Technical Data

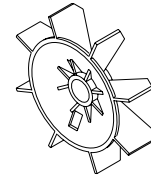
## High Torque Single Phase Spare Parts

Spare part number is applicable for **Motor Series** designated in column header. Series is indicated by motor prefix.

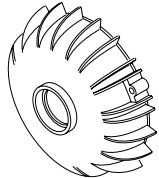
HT 1PH – C-Flanges		
Frame	36T Series	List Price
180TC	47C-FLA-180	71.00
210TC	47C-FLA-210	96.00



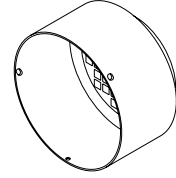
HT 1PH – Fans		
Frame	36T Series	List Price
180	47FAN-180-4	70.00
210	47FAN-210-4	84.00



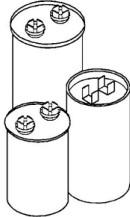
HT 1PH – DE Brackets		
Frame	36T Series	List Price
180	47BR-D-180	71.00
210	47BR-D-210	96.00



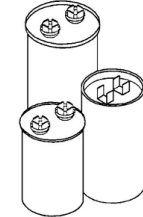
HT 1PH – Fan Guards		
Frame	36T Series	List Price
180	47F-GUA-180	40.00
210	47F-GUA-210	55.00



HT 1PH – Start Capacitor		
uF/350V	36T Series	List Price
300	47CAP-300	37.00
350	47CAP-350	45.00
400	47CAP-400	47.00
450	47CAP-450	48.00
500	47CAP-500	50.00
650	47CAP-650	62.00



HT 1PH – Run Capacitor		
uF/450V	36T Series	List Price
30	47CAP-30	15.00
40	47CAP-40	19.00
50	47CAP-50	23.00
60	47CAP-60	27.00



HT 1PH – Centrifugal Switch		
Frame & Poles	36T Series	List Price
180 - 2P	47CEN-180-2	61.00
180 - 4P	47CEN-180-4	61.00
210 - 2P	47CEN-210-2	90.00
210 - 4P	47CEN-210-4	90.00

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

General Information

### EPACT Motor Spare Parts

Spare part number is applicable for **Motor Series** designated in column header. Series is indicated by motor prefix.

Premium Efficient Motors

#### EPACT – C-Flanges

Frame & Poles	40N Series	List Price
140TC	22C-FLA-140	185.00
180TC	22C-FLA-180	222.00
210TC	22C-FLA-210	259.00
250TC	22C-FLA-250	407.00
280TC	22C-FLA-280	518.00
320TC-2,4,6P	42C-FLA-320	2,049.00
360TC-2,4P	42C-FLA-360	2,043.00
400TC-2,4P	42C-FLA-400	2,323.00
440TC-4P	42C-FLA-440T	2,855.00
440TSC-2P	42C-FLA-440TS	2,855.00



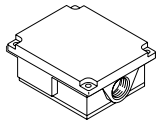
#### EPACT – DE Brackets

Frame & Poles	40N Series	List Price
140T	22BR-D-140	111.00
180T	22BR-D-180	126.00
210T	22BR-D-210	163.00
250T	22BR-D-250	222.00
280T	22BR-D-280	281.00
320T-2,4,6P	42BR-D-320	784.00
360T-2,4P	42BR-D-360	966.00
400T-2,4P	42BR-D-400	1,148.00
440T-4P	42BR-D-440	1,665.00
440TS-2P	42BR-D-440TS	1,665.00



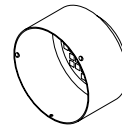
Severe & Crusher Duty Motors

Metric IEC Motors



#### EPACT – Junction Box

Frame	40N Series	List Price	33N Series	List Price
140	22JUN-B-140	202.00	46JUN-B-180	68.00
180	22JUN-B-210	231.00	46JUN-B-180	68.00
210	22JUN-B-210	231.00	46JUN-B-250	148.00
250	22JUN-B-280	355.00	46JUN-B-250	148.00
280	22JUN-B-280	355.00	46JUN-B-320	215.00
320	41JUN-B-320	1,097.00	46JUN-B-320	215.00
360	41JUN-B-360	1,190.00	46JUN-B-440	403.00
400	41JUN-B-400	1,246.00	46JUN-B-440	403.00
440	41JUN-B-440	500.00	46JUN-B-440	403.00



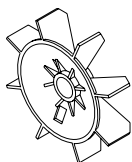
#### EPACT – Steel Fan Guards

Frame & Poles	40N Series	List Price	33N Series	List Price
140	22F-GUA-140	94.00	44F-GUA-140	44.00
180	22F-GUA-180	101.00	44F-GUA-180	58.00
210	22F-GUA-210	171.00	44F-GUA-210	68.00
250	22F-GUA-250	218.00	44F-GUA-250	122.00
280	22F-GUA-280	275.00	44F-GUA-280	174.00
320-2,4,6P	42F-GUA-320	714.00	44F-GUA-320	217.00
360-2,4P	42F-GUA-360	882.00	44F-GUA-360	289.00
400-2,4P	42F-GUA-400	980.00	44F-GUA-400	361.00
440-2,4P	42F-GUA-440	1,162.00	44F-GUA-440	434.00
447-2,4P	42F-GUA-447	1,037.00	–	–

Rollled Steel Motors

Stainless Steel Washdown Motors

Pump Motors



Brake Motors

#### EPACT – Fans

Frame & Poles	40N Series	List Price	33N Series	List Price
140-2P	22FAN-140-2	74.00	44FAN-140-2	29.00
140-4,6P	22FAN-140-4	74.00	44FAN-140-2	29.00
180-2P	22FAN-180-2	87.00	44FAN-180-2	29.00
180-4,6P	22FAN-180-4	87.00	44FAN-180-4	29.00
210-2P	42FAN-180-2	87.00	44FAN-210-2	54.00
210-4,6P	42FAN-210-4	153.00	44FAN-210-2	54.00
250-2P	22FAN-250-2	202.00	44FAN-250-2	81.00
250-4,6P	22FAN-250-4	202.00	44FAN-250-2	81.00
284TS-2P	22FAN-250-2	202.00	44FAN-280-2	107.00
286TS-2P	42FAN-284TS	230.00	44FAN-280-2	107.00

#### EPACT – Fans

Frame & Poles	40N Series	List Price	33N Series	List Price
280-4,6P	42FAN-280-4	230.00	44FAN-280-2	107.00
320-2P	42FAN-284TS	230.00	44FAN-320-2	162.00
320-4,6P	42FAN-280-4	230.00	44FAN-320-2	162.00
360-2P	42FAN-284TS	230.00	44FAN-360-2	202.00
360-4,6P	42FAN-280-4	230.00	44FAN-360-4	202.00
400-2P	42FAN-400TS	700.00	44FAN-400-2	243.00
400-4,6P	42FAN-400T	794.00	44FAN-400-4	243.00
440-2P	42FAN-447-2	650.00	44FAN-440-2	484.00
440-4,6P	42FAN-447-4	650.00	44FAN-440-4	484.00

Parts and Accessories

Technical Data

## NEMA Brake Motor Spare Parts

Spare part number is applicable for **Motor Series** designated in column header.

Brake – Rectifier		
AC Volt	Brake Series	List Price
460V	42REC-460V	110.00
230V	42REC-230V	163.00

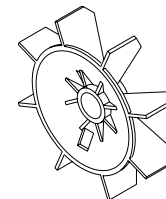
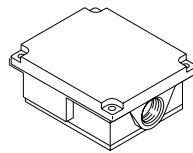
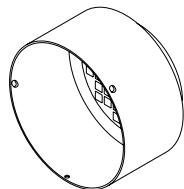
Brake – Electric Coil		
Frame	Brake Series	List Price
140	42ELEC-COIL-140	285.00
180	42ELEC-COIL-180	550.00
210	42ELEC-COIL-210	722.00
250	42ELEC-COIL-250	967.00
280	42ELEC-COIL-280	1,292.00

Brake – Gear Wheel		
Frame	Brake Series	List Price
140	42GEAR-WHEEL-140	276.00
180	42GEAR-WHEEL-180	407.00
210	42GEAR-WHEEL-210	528.00
250	42GEAR-WHEEL-250	683.00
280	42GEAR-WHEEL-280	885.00

Brake – Motor Disk		
Frame	Brake Series	List Price
140	42BRAKE-DISK-140	214.00
180	42BRAKE-DISK-180	320.00
210	42BRAKE-DISK-210	422.00
250	42BRAKE-DISK-250	557.00
280	42BRAKE-DISK-280	736.00

Brake – Motor Handle		
Frame	Brake Series	List Price
140	42HANDLE-140	123.00
180	42HANDLE-180	295.00
210	42HANDLE-210	379.00
250	42HANDLE-250	486.00
280	42HANDLE-280	665.00

Brake – Reg. Bolt		
Frame	Brake Series	List Price
140	42REG-BOLT-140	37.00
180	42REG-BOLT-180	54.00
210	42REG-BOLT-210	49.00
250	42REG-BOLT-250	95.00
280	42REG-BOLT-280	120.00



Brake – Fan Guards		
Frame	Brake Series	List Price
140	42F-GUA-140-BRAKE	300.00
180	42F-GUA-180-BRAKE	350.00
210	42F-GUA-210-BRAKE	409.00
250	42F-GUA-250-BRAKE	450.00
280	42F-GUA-280-BRAKE	494.00

Brake – Junction box		
Frame	Brake Series	List Price
140	42JUN-B-140-BRAKE	112.00
180	42JUN-B-180-BRAKE	166.00
210	42JUN-B-210-BRAKE	166.00
250	42JUN-B-250-BRAKE	204.00
280.00	42JUN-B-280-BRAKE	242.00

Brake – Fans		
Frame & Poles	Brake Series	List Price
140-2P	42FAN-140-2-BRAKE	152.00
140-4,6P	42FAN-140-4-BRAKE	152.00
180-2P	22FAN-180-2	87.00
180-4,6P	22FAN-180-4	87.00
210-2P	22FAN-180-2	87.00
210-4,6P	22FAN-210-4	174.00
250-2P	22FAN-250-2	202.00
250-4,6P	22FAN-250-4	202.00

General Information

### Metric IEC Frame Motor Spare Parts

Spare part number is applicable for **Motor Series** designated in column header. Series is indicated by motor prefix.

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

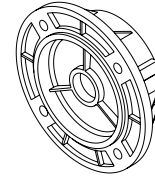
Brake Motors

Parts and Accessories

Technical Data

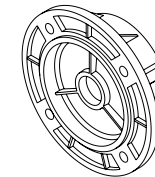
#### Metric IEC Frame – B5 Standard D-Flanges

Frame	40M Series	List Price	20M Series	List Price	20M Series (with "P" suffix)	List Price
56	41DM-FLA-56	92.00	-	-	-	-
63	41DM-FLA-63	104.00	-	-	-	-
71	41DM-FLA-71	161.00	-	-	-	-
80	41DM-FLA-80	190.00	41DM-FLA-80	190.00	22DM-FLA-80	160.00
90	41DM-FLA-90	228.00	41DM-FLA-90	228.00	22DM-FLA-90	168.00
100	41DM-FLA-100	335.00	41DM-FLA-100	335.00	22DM-FLA-100	231.00
112	41DM-FLA-112	419.00	41DM-FLA-112	419.00	22DM-FLA-112	283.00
132	41DM-FLA-132	491.00	41DM-FLA-132	491.00	22DM-FLA-132	350.00
160	41DM-FLA-160	958.00	41DM-FLA-160	958.00	22DM-FLA-160	566.00
180	41DM-FLA-180	1,046.00	41DM-FLA-180	1,046.00	22DM-FLA-180	585.00
200	41DM-FLA-200	2,079.00	22DM-FLA-200	1,206.00	22DM-FLA-200	1,206.00
225	41DM-FLA-225	2,328.00	22DM-FLA-225	1,354.00	22DM-FLA-225	1,354.00
250	41DM-FLA-250	2,500.00	22DM-FLA-250	1,947.00	22DM-FLA-250	1,947.00
280	41DM-FLA-280	3,275.00	22DM-FLA-280	2,102.00	22DM-FLA-280	2,102.00
280-2P	41DM-FLA-280-2P	3,275.00	22DM-FLA-280-2P	2,102.00	22DM-FLA-280-2P	2,102.00
315	41DM-FLA-315	3,275.00	22DM-FLA-315	2,916.00	22DM-FLA-315	2,916.00
315-2P	41DM-FLA-315-2P	3,275.00	22DM-FLA-315-2P	2,916.00	22DM-FLA-315-2P	2,916.00



#### Metric IEC Frame – B5 Reduction\* D-Flanges

Frame	40M Series	List Price	20M Series	List Price	20M Series (with "P" suffix)	List Price
90	-	-	41DM-FLA-90/R	228.00	22DM-FLA-90/R	228.00
100	-	-	41DM-FLA-100/R	335.00	22DM-FLA-100/R	291.00
112	-	-	41DM-FLA-112/R	419.00	22DM-FLA-112/R	350.00
132	-	-	41DM-FLA-132/R	491.00	22DM-FLA-132/R	410.00
160	-	-	41DM-FLA-160/R	958.00	22DM-FLA-160/R	626.00

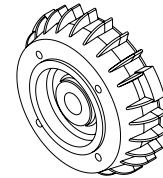


\* B35/R is non-standard reduced diameter B5 (D-Flange) flange motor with feet.

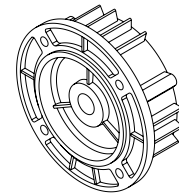
## Metric IEC Frame Motor Spare Parts – Continued

Spare part number is applicable for **Motor Series** designated in column header. Series is indicated by motor prefix.

Metric IEC Frame – B14 Standard C-Flanges						
Frame	40M Series	List Price	20M Series	List Price	20M Series (with "P" suffix)	List Price
56	41CM-FLA-56/2	79.00	–	–	–	–
63	41CM-FLA-63/2	84.00	–	–	–	–
71	41CM-FLA-71/2	133.00	–	–	–	–
80	41CM-FLA-80/2	200.00	41CM-FLA-80/2	200.00	22CM-FLA-80/2	160.00
90	41CM-FLA-90/2	274.00	41CM-FLA-90/2	274.00	22CM-FLA-90/2	168.00
100	41CM-FLA-100/2	409.00	41CM-FLA-100/2	409.00	22CM-FLA-100/2	231.00
112	41CM-FLA-112/2	501.00	41CM-FLA-112/2	501.00	22CM-FLA-112/2	283.00
132	41CM-FLA-132/2	544.00	41CM-FLA-132/2	544.00	22CM-FLA-132/2	350.00
160	41CM-FLA-160/2	919.00	41CM-FLA-160/2	919.00	22CM-FLA-160/2	566.00



Metric IEC Frame – B14 Increased* C-Flanges						
Frame	40M Series	List Price	20M Series	List Price	20M Series (with "P" suffix)	List Price
56	41CM-FLA-56/1	79.00	–	–	–	–
63	41CM-FLA-63/1	84.00	–	–	–	–
71	41CM-FLA-71/1	133.00	–	–	–	–
80	41CM-FLA-80/1	200.00	41CM-FLA-80/1	200.00	22CM-FLA-80/1	160.00
90	41CM-FLA-90/1	274.00	41CM-FLA-90/1	274.00	22CM-FLA-90/1	168.00
100	41CM-FLA-100/1	409.00	41CM-FLA-100/1	409.00	22CM-FLA-100/1	231.00
112	41CM-FLA-112/1	501.00	41CM-FLA-112/1	501.00	22CM-FLA-112/1	283.00
132	41CM-FLA-132/1	544.00	41CM-FLA-132/1	544.00	22CM-FLA-132/1	350.00
160	41CM-FLA-160/1	919.00	41CM-FLA-160/1	919.00	22CM-FLA-160/1	566.00



\* B34/1 is non-standard increased diameter B14 (C-Face) flange motor with feet.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

General Information

### NEMA and IEC Motor Accessories and Modifications

Accessories and Modifications are applicable for **Motor Series** designated in column header. Series is indicated by motor prefix. **NOTE:** Motors requiring modification are subject to availability at the Schaumburg, IL warehouse.

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

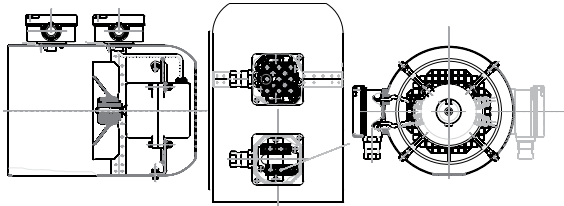
Brake Motors

Parts and Accessories

Technical Data

NEMA Motor Drip Covers				
NEMA Frame	IEC Frame	C-Dimension Increase	20-40-60 Series	List Price
143T-145T	100	2.0 in	42F-GUA-140/DC	193.00
182T-184T	112	2.0 in	42F-GUA-180/DC	249.00
213T-215T	132	2.0 in	42F-GUA-210/DC	332.00
254T-256T	160	2.5 in	42F-GUA-250/DC	359.00
284T-286T	180	2.5 in	42F-GUA-280/DC	387.00
324T-326T	200	3.0 in	42F-GUA-320/DC	497.00
364T-365T	225	3.0 in	42F-GUA-360/DC	552.00
404T-405T	250	3.5 in	42F-GUA-400/DC	662.00
444T-445T	280	3.5 in	42F-GUA-440/DC	790.00
447T	315	3.5 in	42F-GUA-447/DC	828.00

Drip Cover Kits are used in motors for shaft down outdoor applications.



Motor Blower Kits (3PH 230/460V 60Hz)						
NEMA Frame	IEC Frame	C-Dimension Increase	40 Series	List Price	20 & 60 Series	List Price
182T-184T	112	8.8 in	42F-GUA-180/F	641.00	42F-GUA-180/F	641.00
213T-215T	132	8.2 in	42F-GUA-210/F	811.00	42F-GUA-210/F	811.00
254T-256T	160	7.2 in	42F-GUA-250/F	888.00	42F-GUA-250/F	888.00
284T-286T	180	7.5 in	42F-GUA-280/F	888.00	42F-GUA-280/F	888.00
324T-326T	200	11.8 in	42F-GUA-320/F	2,082.00	22F-GUA-320/F	2,236.00
364T-365T	225	13.6 in	42F-GUA-360/F	3,467.00	22F-GUA-360/F	3,818.00
404T-405T	250	13.5 in	42F-GUA-400/F	3,693.00	22F-GUA-400/F	4,313.00
444T-447T	280	11.6 in	42F-GUA-440/F	3,475.00	22F-GUA-440/F	4,803.00

IEC motor blower kits available upon request.

AEGIS Grounding Rings			
NEMA Frame	NEMA Motor End Shaft Diameter "U"	Part Number	List Price
56	0.625 in	22GR-RING-56	574.00
140T	0.875 in	22GR-RING-140	593.00
180T	1.125 in	22GR-RING-180	614.00
210T	1.375 in	22GR-RING-210	636.00
250T, 280TS	1.625 in	22GR-RING-250	704.00
280T, 320TS, 360TS	1.875 in	22GR-RING-280	774.00
320T, 400TS	2.125 in	22GR-RING-320	839.00
360T, 440TS	2.375 in	22GR-RING-360	885.00
400T	2.875 in	22GR-RING-400	1064.00
444T-449T	3.375 in	22GR-RING-440	1392.00
580UZ	4.375 in	22GR-RING-580	1885.00



Bearings					
Bearing	Part Number	List Price Installed	Bearing	Part Number	List Price Installed
6205 2Z C3	41-6205ZZ	75.00	6320C3	41-6320C3	1,200.00
6306 2Z C3	41-6306ZZ	90.00	6322C3	41-6322C3	1,800.00
6308 2Z C3	41-6308ZZ	200.00	NU312	41-NU312	592.00
6309 2Z C3	41-6309ZZ	250.00	NU313	41-NU313	770.00
6311 2Z C3	41-6311ZZ	306.00	NU314	41-NU314	890.00
6312C3	41-6312C3	505.00	NU315	41-NU315	990.00
6313C3	41-6313C3	600.00	NU317	41-NU317	1,100.00
6314C3	41-6314C3	800.00	NU318	41-NU318	863.00
6315C3	41-6315C3	850.00	NU319	41-NU319	1,860.00
6317C3	41-6317C3	903.00	NU320	41-NU320	1,950.00
6318C3	41-6318C3	490.00	NU322	41-NU322	2,100.00
6319C3	41-6319C3	1,100.00			

DE Ball to Roller Bearing Conversions			
NEMA Frame	IEC Frame	Bearing	List Price Installed
320T	200	NU312	291.00
360T	225	NU313	378.00
400T	250	NU315	566.00
444-445T	280-315	NU318	863.00
447T	–	NU320	1,576.00
449T	–	NU319	1,044.00

DE Roller to Ball Bearing Conversions			
NEMA Frame	IEC Frame	Bearing	List Price Installed
447T	–	6320C3	1,000.00
449T	–	6319C3	1,035.00
586/7UZ	–	6324C3	CALL

Space Heaters			
NEMA Frame	Watts Rating (120V Heater*)	Space Heater (1 per Part Number)	List Price
56	25	22SP-HEAT-56	400.00
140T	25	22SP-HEAT-140	400.00
180T	25	22SP-HEAT-180	431.00
210T	50	22SP-HEAT-210	431.00
250T	75	22SP-HEAT-250	431.00
280T	100	22SP-HEAT-280	472.00
320T	125	22SP-HEAT-320	571.00
360T	150	22SP-HEAT-360	571.00
400T	150	22SP-HEAT-400	571.00
440T	200	22SP-HEAT-440	695.00
580UZ	300	22SP-HEAT-580	CALL

\* Call if 240V heater needed



## NEMA and IEC Motor Accessories and Modifications – Continued

Accessories and Modifications are applicable for **Motor Series** designated in column header. Series is indicated by motor prefix. **NOTE:** Motors requiring modification are subject to availability at the Schaumburg, IL warehouse.

Terminal Boards										
NEMA Frame	IEC Frame	Type	L	W	H	Thread Size	Amp Rating	Part Number	List Price Un-Installed	List Price Installed
213T-215T	132	KM6	78	48	40	M6	63	41TER-B-280-6T	138.00	303.00
254T-256T	160	KM6	78	48	40	M6	63	41TER-B-280-6T	138.00	303.00
284T-286T	180	KM6	78	48	40	M6	63	41TER-B-280-6T	138.00	303.00
324T-326T	200	KM8	96	60	46	M8	100	41TER-B-200	207.00	414.00
364T-365T	225	KM8	96	60	46	M8	100	41TER-B-200	207.00	414.00
404T-405T	250	KM10	120	75	57	M10	160	41TER-B-315	622.00	898.00
444T-445T	280	KM10	120	75	57	M10	160	41TER-B-315	622.00	898.00
447T	315	KM12	150	95	65	M12	250	41TER-B-355	850.00	1,250.00
449T	315	KM16	160	100	100	M16	315	41TER-B-400	1,145.00	1,650.00
580	355	KM20	196	121	100	M20	630	41TER-B-600	CALL	CALL



\* IEC Motors up to 112 Frame are equipped with terminal board as standard.

Normally Closed Thermostat*			
NEMA Frame	IEC Frame	Part Number	1 per motor Net Price
140-280	56-180	42SENS-S01	200.00

\*Installed

F1/F2 Modifications			
NEMA Frame	List Price Installed	NEMA Frame	List Price Installed
Up to 210T	186.00	360T	593.00
250T	249.00	400T	646.00
280T	249.00	444/5T	736.00
320T	426.00	447/9T	835.00

F2/F1 prices for all Elektrim Motors where applicable.

NAMEPLATES											
NEMA Frame	IEC Frame	20-40 Series	List Price	31N Series	List Price	32N Series	List Price	38C Series	List Price	IEC Series	List Price
56C	56	-	-	-	-	-	-	38NAMEPLATE	30.00	41NAM-PL-BE	109.00
143T-145T	63	41NAMEPLATE	109.00	45NAMEPLATE-1	109.00	44NAMEPLATE-1	109.00	-	-	41NAM-PL-BE	109.00
182T/184	71	41NAMEPLATE	109.00	45NAMEPLATE-1	109.00	44NAMEPLATE-1	109.00	-	-	41NAM-PL-BE	109.00
213T	80	41NAMEPLATE	109.00	45NAMEPLATE-2	109.00	44NAMEPLATE-1	109.00	-	-	41NAM-PL-BE	109.00
215T	90	41NAMEPLATE	109.00	45NAMEPLATE-2	109.00	44NAMEPLATE-2	109.00	-	-	41NAM-PL-IN	109.00
254T-256T	100	41NAMEPLATE	109.00	45NAMEPLATE-3	109.00	44NAMEPLATE-2	109.00	-	-	41NAM-PL-IN	109.00
284T-286T	112	41NAMEPLATE	109.00	45NAMEPLATE-3	109.00	44NAMEPLATE-2	109.00	-	-	41NAM-PL-IN	109.00
324T-326T	132	41NAMEPLATE-CE	109.00	45NAMEPLATE-3	109.00	44NAMEPLATE-2	109.00	-	-	41NAM-PL-IN	109.00
364T-365T	132	41NAMEPLATE-CE	109.00	45NAMEPLATE-3	109.00	44NAMEPLATE-2	109.00	-	-	41NAM-PL-IN	109.00
404T-405T	160	41NAMEPLATE-CE	109.00	45NAMEPLATE-3	109.00	44NAMEPLATE-3	109.00	-	-	41NAM-PL-IN	109.00
444T-445T	180	41NAMEPLATE-CE	109.00	45NAMEPLATE-3	109.00	44NAMEPLATE-3	109.00	-	-	41NAM-PL-IN	109.00
447T	200	41NAMEPLATE-CE	109.00	45NAMEPLATE-3	109.00	44NAMEPLATE-3	109.00	-	-	41NAM-PL-CE	109.00
449T	225	41NAMEPLATE-CE	109.00	45NAMEPLATE-3	109.00	44NAMEPLATE-3	109.00	-	-	41NAM-PL-CE	109.00
-	250	-	-	-	-	-	-	-	-	41NAM-PL-CE	109.00
-	280	-	-	-	-	-	-	-	-	41NAM-PL-CE	109.00
-	315	-	-	-	-	-	-	-	-	41NAM-PL-CE	109.00

General Information

### Performance Premium 20N Series – 1-300 HP

#### Performance Data

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

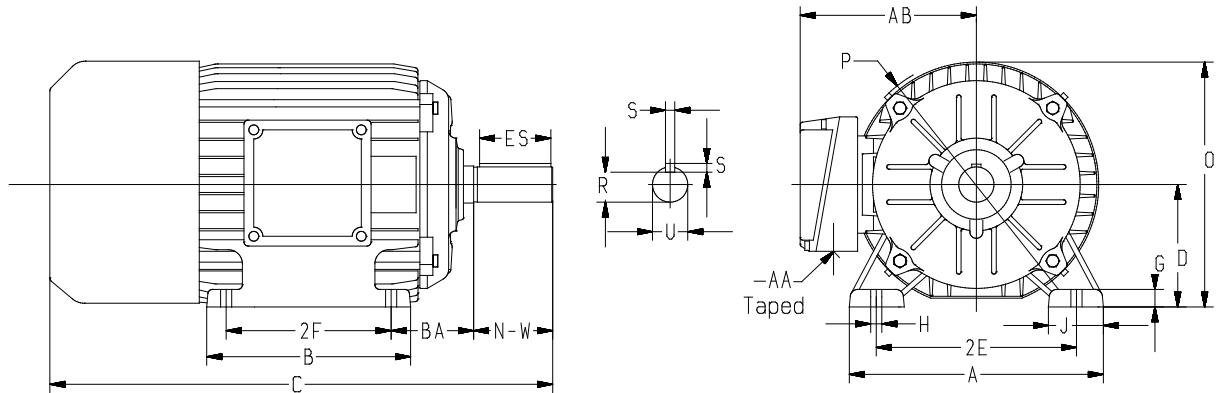
Technical Data

HP	RPM	Frame	Torque			FLA			LRA		Efficiency			Power Factor			NEMA Design	Code	SF	WK <sup>2</sup> lb ft <sup>2</sup>	lbs
			FLT lb-ft	LRT %	BDT %	460V	575V	208V	460V	575V	FL	75%	50%	FL	75%	50%					
1	1765	143T	3	300	320	1.4	1.1	3.1	12.9	10.3	85.5	84.5	81.3	78	70	57	B	M	1.4	0.09	53
	1160	145T	4.5	240	300	1.7	1.4	3.8	10	8	82.5	81.9	78.6	68	59	46	B	K	1.4	0.15	55
	3540	143T	2.2	350	410	2.1	1.7	4.6	20	16	84.5	83.2	79.8	78	69	57	B	M	1.4	0.07	56
1.5	1750	145T	4.5	300	400	2	1.6	4.4	16.6	13.3	87	86.8	85	79	72	59	B	K	1.4	0.1	57
	1170	182T	6.7	190	280	2.4	1.9	5.3	14	11.2	87.5	86.9	84.5	68	59	47	B	J	1.4	0.4	85
2	3525	145T	3	360	400	2.7	2.2	6.0	25.4	20.3	86	85.7	83.3	82	75	62	B	L	1.4	0.08	57
	1745	145T	6	260	340	2.6	2.1	5.8	19.2	15.4	86.5	87.1	85.8	83	77	64	B	J	1.4	0.13	59
	1170	184T	9	200	300	3	2.4	6.6	25	20	88.5	88.6	86.9	72	64	51	B	L	1.4	0.45	98
3	3500	182T	4.5	310	320	4	3.2	8.8	32	25.6	86.5	86.4	84.4	82	76	65	B	K	1.4	0.12	76
	1775	182T	8.9	320	400	4.2	3.4	9.3	38	30.4	89.5	88.5	85.8	75	67	54	A	M	1.4	0.27	102
	1165	213T	13.5	260	360	4.2	3.4	9.3	32	25.6	89.5	89.5	88	74	68	56	B	K	1.4	1.45	205
5	3535	184T	7.4	450	530	6.2	5.0	13.7	73	58.4	89	88.6	86.7	85	80	68	A	N	1.4	0.2	102
	1770	184T	14.8	300	380	6.7	5.4	14.8	61	48.8	89.5	89.2	87.6	78	71	58	A	L	1.3	0.34	108
	1170	215T	22.4	250	350	7	5.6	15.5	46	36.8	89.5	89.6	88.2	75	69	57	B	J	1.3	1.56	220
7.5	3525	213T	11.2	290	315	8.5	6.8	18.8	76	60.8	90	90	88.7	92	89	81	A	K	1.3	0.45	159
	1765	213T	22.3	240	290	9.3	7.4	20.6	71	56.8	91.7	91.6	90.5	82	78	67	A	J	1.3	0.87	167
	1185	254T	33.2	320	350	10.4	8.3	23.0	77.5	62	91	90.6	88.6	74	67	54	A	K	1.3	2.63	321
10	3535	215T	14.8	300	335	11.4	9.1	25.2	93	74.4	90.2	90.4	89.3	91	88	80	A	J	1.3	0.5	173
	1770	215T	29.6	230	280	12.5	10.0	27.6	87	69.6	91.7	91.7	90.4	82	77	66	A	H	1.3	0.99	185
	1180	256T	44.5	290	330	13.4	10.7	29.6	94	75.2	91	90.8	89.2	77	70	58	A	J	1.3	3.31	363
15	3540	254T	22.3	240	250	17.6	14.1	38.9	112	90	91.7	91.8	90.5	87	85	77	B	G	1.3	1.15	258
	1775	254T	44.3	380	440	17.3	13.8	38.3	168	134.4	92.4	92	90.7	88	84	76	A	K	1.3	2.89	301
	1185	284T	66.4	470	380	19.5	15.6	43.1	180	144	91.7	91.2	89	79	73	61	A	L	1.3	5.19	371
20	3540	256T	29.7	230	260	22.9	18.3	50.6	138	110	92	92.4	91.7	89	88	82	B	F	1.3	1.47	306
	1775	256T	59.1	380	450	22.9	18.3	50.6	230	184	93	92.7	91.4	88	84	76	A	L	1.2	3.57	390
	1185	286T	88.5	380	320	25.5	20.4	56.4	221	177	91.7	91.1	89.1	80	74	63	A	L	1.2	6.03	421
25	3555	284TS	36.9	260	300	29.5	23.6	65.2	205	164	92.4	92.4	91.3	86	82	74	A	H	1.2	1.72	348
	1780	284T	73.7	380	420	30.5	24.4	67.5	300	240	93.6	93.1	91.6	82	76	66	A	L	1.2	3.59	397
	1190	324T	110	230	240	31.5	25	69.7	182	146	93	93.3	92.4	80	75	65	B	G	1.3	12.9	653
30	3540	286TS	44.5	250	300	35.2	28.2	77.8	215	172	91.7	92	91.2	87	85	80	A	G	1.2	1.92	390
	1780	286T	88.4	370	390	37.5	30.0	82.9	350	280	93.6	93	91.3	80	73	61	A	L	1.2	3.84	441
	1190	326T	132	230	240	37	30	81.8	217	174	93	93.3	92.6	82	78	69	B	G	1.3	14.7	681
40	3552	324TS	59	145	200	44	35	97.3	290	232	93	93.6	93.3	92	91	88	B	G	1.2	4	608
	1780	324T	118	240	270	45	36	99.5	290	232	94.1	94.7	94.3	88	86	78	B	G	1.3	9.3	690
	1192	364T	176	180	210	48.5	39	107.3	290	232	94.1	94.2	93.5	82	78	68	B	G	1.3	23.1	917
50	3552	326TS	74	145	200	55	44	121.6	362	290	93	93.7	93.5	92	92	89	B	G	1.2	4.7	655
	1781	326T	148	250	270	56	45	123.8	362	290	94.5	95.1	94.9	88	85	78	B	G	1.3	11.6	769
	1191	365T	221	170	200	60	48	132.7	362	290	94.1	94.3	93.7	83	80	71	B	G	1.3	25.9	970
60	3562	364TS	88.5	125	200	65	52	143.8	435	348	93.6	94.1	93.8	92	91	87	B	G	1.2	6.5	860
	1786	364T	177	140	200	67	54	148.2	435	348	95	95.6	95.3	88	87	80	B	G	1.2	15.5	926
	1192	404T	264	180	200	72	58	159.2	435	348	94.5	94.4	93.7	82	78	68	B	G	1.3	36.8	1127
75	3560	365TS	111	120	200	81	65	179.1	542	434	94.1	94.8	94.7	92	91	89	B	G	1.2	7.9	933
	1787	365T	221	150	210	84	67	185.8	542	434	95.4	95.8	95.5	88	86	80	B	G	1.2	17.8	1012
	1191	405T	331	140	200	91	73	201.3	542	434	94.5	94.9	94.4	82	79	70	B	G	1.2	41.9	1210
100	3565	405TS	147	170	240	109	87	241.1	725	580	95.4	95.6	95.3	90	88	83	B	G	1.2	10	1058
	1785	405T	294	220	230	108	86	238.8	790	632	95.4	95.9	95.7	91	89	84	B	G	1.2	29.8	1241
	1192	444T	441	190	200	123	98	272.0	725	580	95	94.9	93.9	80	75	65	B	G	1.2	64.1	1726
125	3578	444TS	184	140	260	133	106	–	950	760	95.4	95.7	95.5	92	90	86	B	G	1.2	22.5	1488
	1788	444T	367	175	210	136	109	–	907	726	95.8	96.2	96.1	90	89	85	B	G	1.2	42.9	1662
	1192	445T	551	190	200	153	122	–	910	728	95.4	95.6	95.3	80	77	67	B	G	1.2	76.3	1931
150	3578	445TS	220	160	270	159	127	–	1180	944	95.8	96.1	96	92	91	86	B	G	1.2	28.4	1594
	1788	445T	441	180	200	161	129	–	1085	868	95.8	96.2	96.1	91	90	86	B	G	1.2	52.7	1823
200	3578	447TS	294	150	250	210	168	–	1500	1200	95.8	96.2	96.1	93	92	88	B	G	1.2	29.1	2161
	1790	447T	587	170	200	218	174	–	1550	1240	96.5	96.7	96.2	89	87	81	B	G	1.2	68	2310
250	3579	447TS	367	180	270	261	209	–	1900	1520	96.2	96.6	96.5	93	92	89	B	G	1.2	36.9	2271
	1788	447T	735	160	200	267	214	–	1825	1460	96.2	96.6	96.5	91	90	85	B	G	1.2	81.5	2447
300	3574	447TS	441	145	220	320	256	–	1912	1530	95.5	96.2	96.7	92	91	90	B	F	1.0	36.9	2271
	1785	447T	883	130	165	325	260	–	1825	1460	95.9	96.2	96.6	90	89	88	B	F	1.0	81.5	2447

# Performance Premium 20N Series – 143T-286TS Footed

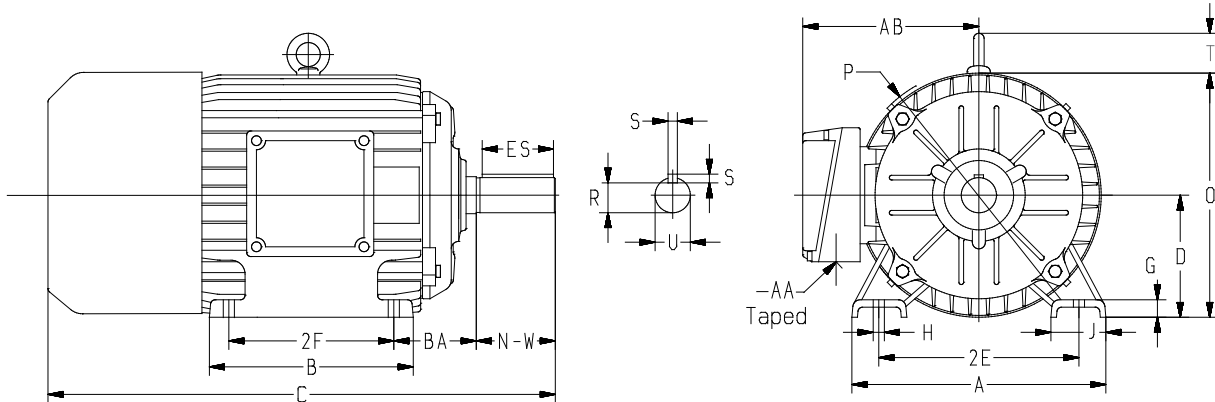
## Mounting Dimensions

### 143T-145T



Frame	# of Poles	Mounting Dimensions											Overall Dimensions								
		A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	AB	Bearings
143T	2,4,6	6.62	5.83	3.5	5.5	4	0.34	0.771	0.875	2.25	3/4	2.25	1.52	14.2	0.39	1.66	7.48	8.27	0.188	6.5	6205 2Z
145T	2,4,6	6.62	7	3.5	5.5	5	0.34	0.771	0.875	2.25	3/4	2.25	1.52	15.15	0.39	1.66	7.48	8.27	0.188	6.5	6205 2Z

### 182T-286TS



Frame	# of Poles	Mounting Dimensions											Overall Dimensions									
		A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	T	AB	Bearings
182T	2,4,6	9	8.31	4.5	7.5	4.5	0.41	0.986	1.125	2.75	1	2.75	1.94	17.7	0.6	2.13	9.09	9.53	0.25	1.77	7.9	6306 2Z
184T	2,4,6	9	8.31	4.5	7.5	5.5	0.41	0.986	1.125	2.75	1	2.75	1.94	17.7	0.6	2.13	9.09	9.53	0.25	1.77	7.9	6306 2Z
213T	2,4,6	10.24	9.6	5.25	8.5	5.5	0.41	1.201	1.375	3.38	1	3.5	2.55	22.25	0.67	2.2	10.96	11.61	0.312	2.08	8.92	6308/6 2Z
215T	2,4,6	10.24	9.6	5.25	8.5	7	0.41	1.201	1.375	3.38	1	3.5	2.55	22.88	0.67	2.2	10.96	11.61	0.312	2.08	8.92	6308/6 2Z
254T	2,4,6	12.28	9.92	6.25	10	8.25	0.55	1.416	1.625	4	1 1/4	4.25	3.11	25.83	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
256T	2,4,6	12.28	11.65	6.25	10	10	0.55	1.416	1.625	4	1 1/4	4.25	3.11	27.6	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
284T	4,6	13.78	13.11	7	11	9.5	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	31.16	0.89	2.75	14.01	14.17	0.5	2.08	10.34	6311 2Z
284TS	2	13.78	13.11	7	11	9.5	0.55	1.416	1.625	3.25	1 1/2	4.75	2.1	27.2	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z
286T	4,6	13.78	13.11	7	11	11	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	31.16	0.89	2.75	14.01	14.17	0.5	2.08	10.34	6311 2Z
286TS	2	13.78	13.11	7	11	11	0.55	1.416	1.625	3.25	1 1/2	4.75	2.1	27.2	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z

The conduit box can be rotated in 90° increments so that conduit can be received from any direction. Conduit box can be located on either side of motor.

- General Information
- Premium Efficient Motors
- Severe & Crusher Duty Motors
- Metric IEC Motors
- Rolled Steel Motors
- Stainless Steel Washdown Motors
- Pump Motors
- Brake Motors
- Parts and Accessories

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

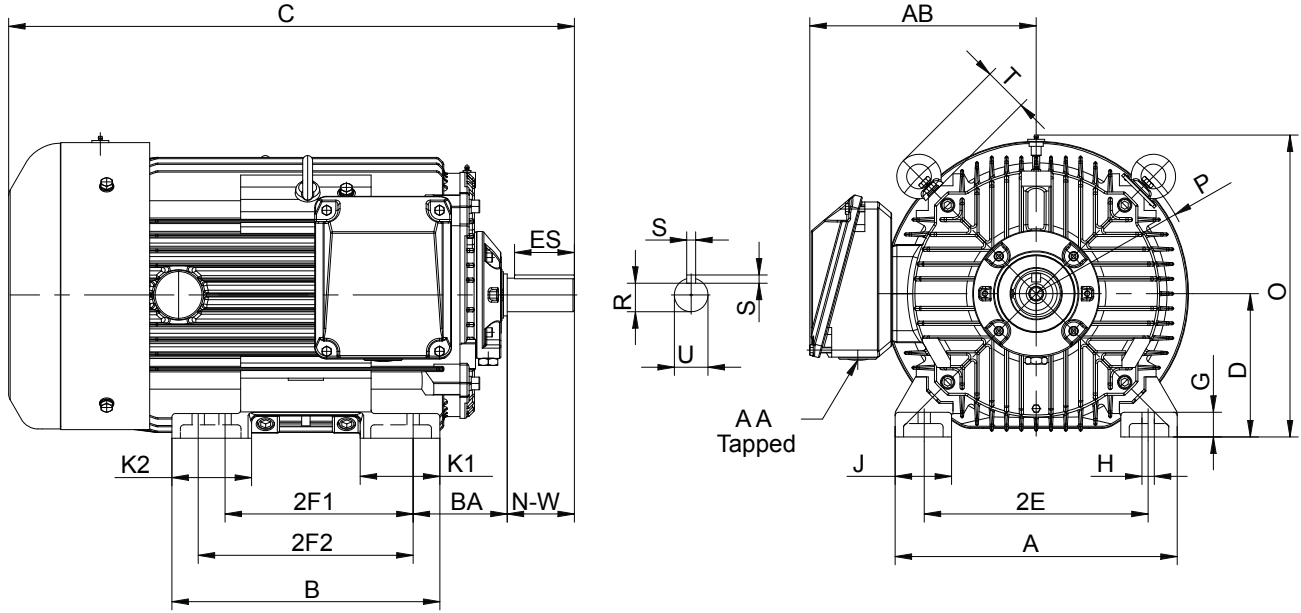
Pump Motors

Brake Motors

Parts and Accessories

Technical Data

### Performance Premium 20N Series – 324TS-447T Footed Mounting Dimensions



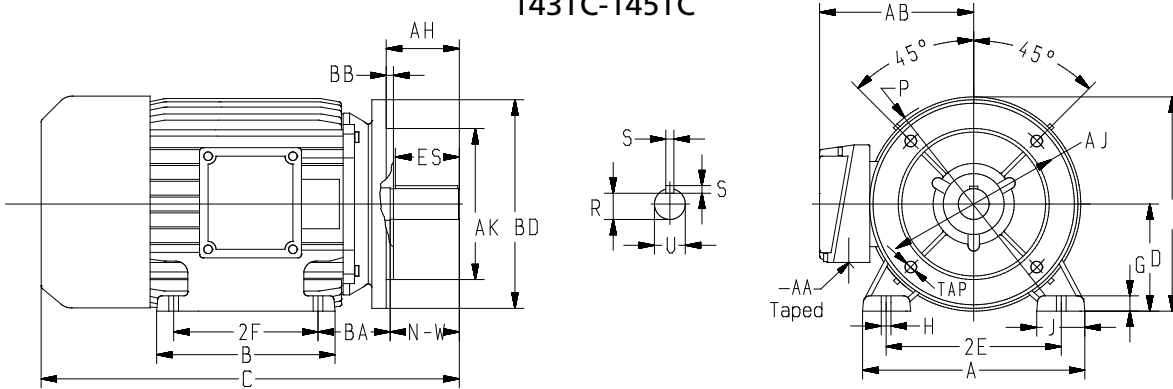
Frame	# of Poles	Mounting Dimensions											Overall Dimensions													
		D	2E	2F1	2F2	G	H	Shaft End				R	S	U	A	AA	AB	B	C	J	K1	K2	O	P	T	Bearings
								BA	ES	N-W	ES															
324TS	2	8	12.5	10.5	12	1.38	0.66	5.25	2.75	3.75	1.591	0.5	1.875	15.8	2	13	15	31.6	3.15	4.45	4.45	16.9	17.9	2.5	6312C3	
324T	4,6	8	12.5	10.5	12	1.38	0.66	5.25	4.33	5.25	1.845	0.5	2.125	15.8	2	13	15	33.1	3.15	4.45	4.45	16.9	17.9	2.5	6312C3	
326TS	2	8	12.5	10.5	12	1.38	0.66	5.25	2.75	3.75	1.591	0.5	1.875	15.8	2	13	15	31.6	3.15	4.45	4.45	16.9	17.9	2.5	6312C3	
326T	4,6	8	12.5	10.5	12	1.38	0.66	5.25	4.33	5.25	1.845	0.5	2.125	15.8	2	13	15	33.1	3.15	4.45	4.45	16.9	17.9	2.5	6312C3	
364TS	2	9	14	11.25	12.25	1.49	0.66	5.88	2.75	3.75	1.591	0.5	1.875	17.5	3	14.2	15	33.6	3.35	4.53	4.53	18.8	19.9	2.5	6313C3	
364T	4,6	9	14	11.25	12.25	1.49	0.66	5.88	4.92	5.88	2.021	0.625	2.375	17.5	3	14.2	15	35.7	3.35	4.53	4.53	18.8	19.9	2.5	6313C3	
365TS	2	9	14	11.25	12.25	1.49	0.66	5.88	2.75	3.75	1.591	0.5	1.875	17.5	3	14.2	15	33.6	3.35	4.53	4.53	18.8	19.9	2.5	6313C3	
365T	4,6	9	14	11.25	12.25	1.49	0.66	5.88	4.92	5.88	2.021	0.625	2.375	17.5	3	14.2	15	35.7	3.35	4.53	4.53	18.8	19.9	2.5	6313C3	
404T	6	10	16	12.25	13.75	1.57	0.81	6.62	6.3	7.25	2.45	0.75	2.875	18.9	3	15.5	17.6	40.4	3.54	5.32	5.32	20.8	21.3	2.95	6315C3	
405TS	2	10	16	12.25	13.75	1.57	0.81	6.62	3.5	4.25	1.845	0.5	2.125	18.9	3	15.5	17.6	37.4	3.54	5.32	5.32	20.8	21.3	2.95	6315C3	
405T	4,6	10	16	12.25	13.75	1.57	0.81	6.62	6.3	7.25	2.45	0.75	2.875	18.9	3	15.5	17.6	40.4	3.54	5.32	5.32	20.8	21.3	2.95	6315C3	
444TS	2	11	18	14.5	16.5	1.57	0.81	7.5	4.3	4.75	2.021	0.625	2.375	21.7	2x3	17.6	20.5	42	4.15	5.12	6.5	23.4	24.4	3.75	6315C3	
444T	4,6	11	18	14.5	16.5	1.57	0.81	7.5	7.9	8.5	2.88	0.875	3.375	21.7	2x3	17.6	20.5	45.7	4.15	5.12	6.5	23.4	24.4	3.75	6318C3	
445TS	2	11	18	14.5	16.5	1.57	0.81	7.5	4.3	4.75	2.021	0.625	2.375	21.7	2x3	17.6	20.5	42	4.15	5.12	6.5	23.4	24.4	3.75	6315C3	
445T	4,6	11	18	14.5	16.5	1.57	0.81	7.5	7.9	8.5	2.88	0.875	3.375	21.7	2x3	17.6	20.5	45.7	4.15	5.12	6.5	23.4	24.4	3.75	6318C3	
447TS	2	11	18	20	-	1.654	0.81	7.5	4.3	4.75	2.021	0.625	2.375	22.1	2x3	19.5	24	46.3	4.18	6.8	6.8	23.4	24.4	3.75	6315C3	
447T	4,6	11	18	20	-	1.654	0.81	7.5	7.9	8.5	2.88	0.875	3.375	22.1	2x3	19.5	24	50	4.18	6.8	6.8	23.4	24.4	3.75	6318C3	

The conduit box can be rotated in 90° increments so that conduit can be received from any direction.

# Performance Premium 20N Series – 143TC-286TSC C-Face

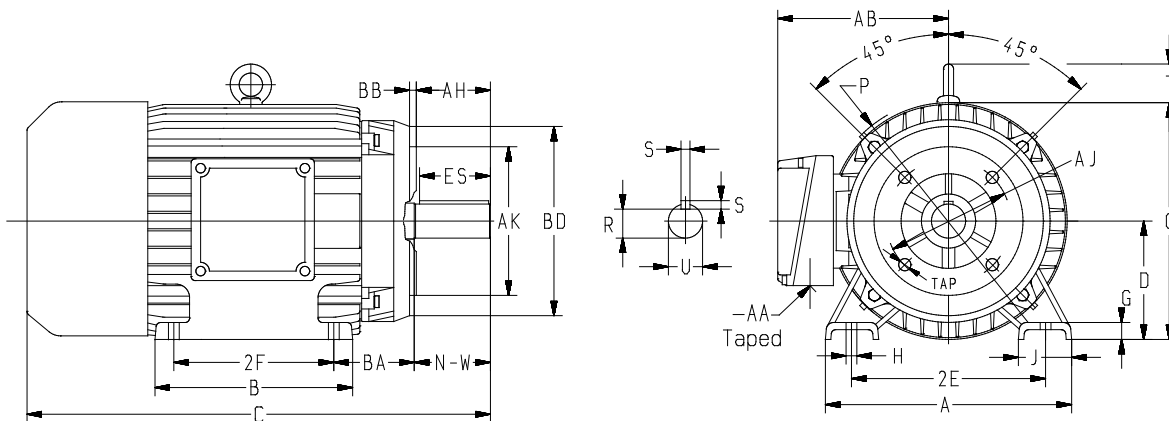
## Mounting Dimensions

143TC-145TC



Frame	# of Poles	Mounting Dimensions														Overall Dimensions											
		A	B	D	2E	2F	H	R	S	U	AH	AJ	AK	BA	BB	BD	ES	C	G	J	O	P	N-W	AA	AB	Tap	Bearings
143TC	2,4,6	6.62	5.83	3.5	5.5	4	0.34	0.771	0.188	0.875	2.12	5.875	4.5	2.25	0.16	6.5	1.52	14.2	0.39	1.66	7.48	8.27	2.25	3/4	6.5	3/8/16	6205 2Z
145TC	2,4,6	6.62	7	3.5	5.5	5	0.34	0.771	0.188	0.875	2.12	5.875	4.5	2.25	0.16	6.5	1.52	15.15	0.39	1.66	7.48	8.27	2.25	3/4	6.5	3/8/16	6205 2Z

182TC-286TSC



Frame	# of Poles	Mounting Dimensions														Overall Dimensions												
		A	B	D	2E	2F	H	R	S	U	AH	AJ	AK	BA	BB	BD	ES	C	G	J	O	P	T	N-W	AA	AB	Tap	Bearings
182TC	2,4,6	9	8.31	4.5	7.5	4.5	0.41	0.986	0.25	1.125	2.62	7.25	8.5	2.75	0.25	8.9	1.94	17.7	0.6	2.13	9.09	9.53	1.77	2.75	1	7.9	1/2/13	6306 2Z
184TC	2,4,6	9	8.31	4.5	7.5	5.5	0.41	0.986	0.25	1.125	2.62	7.25	8.5	2.75	0.25	8.9	1.94	17.7	0.6	2.13	9.09	9.53	1.77	2.75	1	7.9	1/2/13	6306 2Z
213TC	2,4,6	10.24	9.6	5.25	8.5	5.5	0.41	1.201	0.312	1.375	3.13	7.25	8.5	3.5	0.25	8.9	2.55	22.25	0.67	2.2	10.96	11.61	2.08	3.38	1	8.92	1/2/13	6308/6 2Z
215TC	2,4,6	10.24	9.6	5.25	8.5	7	0.41	1.201	0.312	1.375	3.13	7.25	8.5	3.5	0.25	8.9	2.55	22.88	0.67	2.2	10.96	11.61	2.08	3.38	1	8.92	1/2/13	6308/6 2Z
254TC	2,4,6	12.28	9.92	6.25	10	8.25	0.55	1.416	0.375	1.625	3.75	7.25	8.5	4.25	0.25	10	3.11	25.83	0.58	2.36	13.18	14.17	2.08	4	1 1/4	10.08	1/2/13	6309 2Z
256TC	2,4,6	12.28	11.65	6.25	10	10	0.55	1.416	0.375	1.625	3.75	7.25	8.5	4.25	0.25	10	3.11	27.6	0.58	2.36	13.18	14.17	2.08	4	1 1/4	10.08	1/2/13	6309 2Z
284TC	4,6	13.78	13.11	7	11	9.5	0.55	1.591	0.5	1.875	4.38	9	10.5	4.75	0.25	11.25	3.53	31.16	0.89	2.75	14.01	14.17	2.08	4.62	1 1/2	10.34	1/2/13	6311 2Z
284TSC	2	13.78	13.11	7	11	9.5	0.55	1.416	0.375	1.625	3	9	10.5	4.75	0.25	11.25	2.1	27.2	0.89	2.75	14.01	14.17	2.08	3.25	1 1/2	10.34	1/2/13	6311 2Z
286TC	4,6	13.78	13.11	7	11	11	0.55	1.591	0.5	1.875	4.38	9	10.5	4.75	0.25	11.25	3.53	31.16	0.89	2.75	14.01	14.17	2.08	4.62	1 1/2	10.34	1/2/13	6311 2Z
286TSC	2	13.78	13.11	7	11	11	0.55	1.416	0.375	1.625	3	9	10.5	4.75	0.25	11.25	2.1	27.2	0.89	2.75	14.01	14.17	2.08	3.25	1 1/2	10.34	1/2/13	6311 2Z

The conduit box can be rotated in 90° increments so that conduit can be received from any direction. Conduit box can be located on either side of motor. 20NCM C-Face motors with part number suffix (RB) have the same dimensions, but no feet, i.e. 20NCM-3-7.5-36RB

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

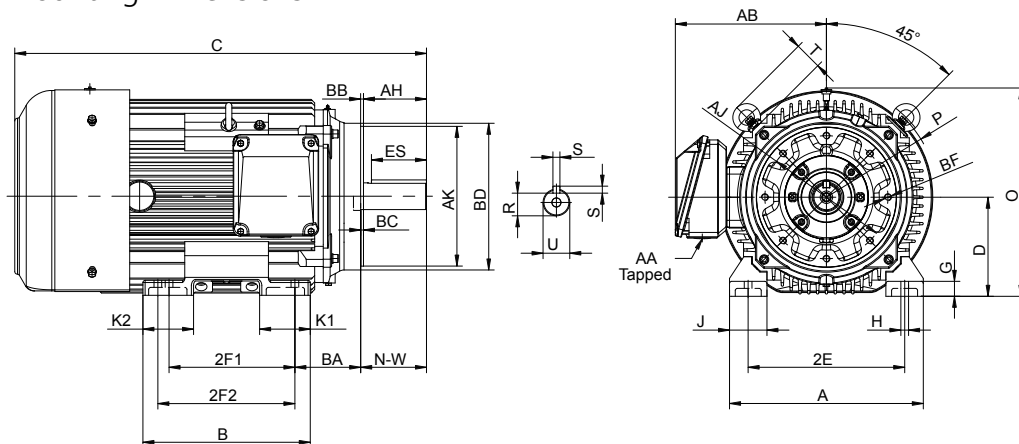
Pump Motors

Brake Motors

Parts and Accessories

Technical Data

### Performance Premium 20N Series – 324TSC-447TC C-Face Mounting Dimensions



Frame	# of Poles	Mounting Dimensions																	
		D	2E	2F1	2F2	G	H	Shaft End						C-Face					
								BA	ES	N-W	R	S	U	AH	AJ	AK	BB/BC	BF	
Size	#																		
324TSC	2	8	12.5	10.5	12	1.38	0.66	5.25	2.75	3.75	1.591	0.5	1.875	3.5	11.0	12.5	0.25	5/8/11	4
324TC	4,6	8	12.5	10.5	12	1.38	0.66	5.25	4.33	5.25	1.845	0.5	2.125	5.0	11.0	12.5	0.25	5/8/11	4
326TSC	2	8	12.5	10.5	12	1.38	0.66	5.25	2.75	3.75	1.591	0.5	1.875	3.5	11.0	12.5	0.25	5/8/11	4
326TC	4,6	8	12.5	10.5	12	1.38	0.66	5.25	4.33	5.25	1.845	0.5	2.125	5.0	11.0	12.5	0.25	5/8/11	4
364TSC	2	9	14	11.25	12.25	1.49	0.66	5.88	2.75	3.75	1.591	0.5	1.875	3.5	11.0	12.5	0.25	5/8/11	8
364TC	4,6	9	14	11.25	12.25	1.49	0.66	5.88	4.92	5.88	2.021	0.625	2.375	5.63	11.0	12.5	0.25	5/8/11	8
365TSC	2	9	14	11.25	12.25	1.49	0.66	5.88	2.75	3.75	1.591	0.5	1.875	3.5	11.0	12.5	0.25	5/8/11	8
365TC	4,6	9	14	11.25	12.25	1.49	0.66	5.88	4.92	5.88	2.021	0.625	2.375	5.63	11.0	12.5	0.25	5/8/11	8
404TC	6	10	16	12.25	13.75	1.57	0.81	6.62	6.3	7.25	2.45	0.75	2.875	7.0	11.0	12.5	0.25	5/8/11	8
405TSC	2	10	16	12.25	13.75	1.57	0.81	6.62	3.5	4.25	1.845	0.5	2.125	4.0	11.0	12.5	0.25	5/8/11	8
405TC	4,6	10	16	12.25	13.75	1.57	0.81	6.62	6.3	7.25	2.45	0.75	2.875	7.0	11.0	12.5	0.25	5/8/11	8
444TSC	2	11	18	14.5	16.5	1.57	0.81	7.5	4.3	4.75	2.021	0.625	2.375	4.5	14.0	16.0	0.25	5/8/11	8
444TC	4,6	11	18	14.5	16.5	1.57	0.81	7.5	7.9	8.5	2.88	0.875	3.375	8.25	14.0	16.0	0.25	5/8/11	8
445TSC	2	11	18	14.5	16.5	1.57	0.81	7.5	4.3	4.75	2.021	0.625	2.375	4.5	14.0	16.0	0.25	5/8/11	8
445TC	4,6	11	18	14.5	16.5	1.57	0.81	7.5	7.9	8.5	2.88	0.875	3.375	8.25	14.0	16.0	0.25	5/8/11	8
447TSC	2	11	18	20	-	1.654	0.81	7.5	4.3	4.75	2.021	0.625	2.375	4.5	14.0	16.0	0.25	5/8/11	8
447TC	4,6	11	18	20	-	1.654	0.81	7.5	7.9	8.5	2.88	0.875	3.375	8.25	14.0	16.0	0.25	5/8/11	8

Frame	# of Poles	Overall Dimensions											
		A	AA	AB	B	BD	C	J	K1	K2	O	P	T
324TSC	2	15.8	2	13	15	13.0	31.6	3.15	4.45	4.45	16.9	17.9	2.5
324TC	4,6	15.8	2	13	15	13.0	33.1	3.15	4.45	4.45	16.9	17.9	2.5
326TSC	2	15.8	2	13	15	13.0	31.6	3.15	4.45	4.45	16.9	17.9	2.5
326TC	4,6	15.8	2	13	15	13.0	33.1	3.15	4.45	4.45	16.9	17.9	2.5
364TSC	2	17.5	3	14.2	15	13.2	33.6	3.35	4.53	4.53	18.8	19.9	2.5
364TC	4,6	17.5	3	14.2	15	13.2	35.7	3.35	4.53	4.53	18.8	19.9	2.5
365TSC	2	17.5	3	14.2	15	13.2	33.6	3.35	4.53	4.53	18.8	19.9	2.5
365TC	4,6	17.5	3	14.2	15	13.2	35.7	3.35	4.53	4.53	18.8	19.9	2.5
404TC	6	18.9	3	15.5	17.6	13.2	40.4	3.55	5.32	5.32	20.8	21.3	2.95
405TSC	2	18.9	3	15.5	17.6	13.2	37.4	3.55	5.32	5.32	20.8	21.3	2.95
405TC	4,6	18.9	3	15.5	17.6	13.2	40.4	3.55	5.32	5.32	20.8	21.3	2.95
444TSC	2	21.7	2x3	17.6	20.5	16.6	42	4.15	5.12	6.5	23.4	24.4	3.75
444TC	4,6	21.7	2x3	17.6	20.5	16.6	45.7	4.15	5.12	6.5	23.4	24.4	3.75
445TSC	2	21.7	2x3	17.6	20.5	16.6	42	4.15	5.12	6.5	23.4	24.4	3.75
445TC	4,6	21.7	2x3	17.6	20.5	16.6	45.7	4.15	5.12	6.5	23.4	24.4	3.75
447TSC	2	22.1	2x3	19.5	24	16.6	46.3	4.18	6.8	6.8	23.4	24.4	3.75
447TC	4,6	22.1	2x3	19.5	24	16.6	50	4.18	6.8	6.8	23.4	24.4	3.75

The conduit box can be rotated in 90° increments so that conduit can be received from any direction.

# A-Line Premium 31N Series – 1-250 HP

## Performance Data

HP	RPM	Frame	CONN	Torque			FLA				LRA 230V	Efficiency			Power Factor			NEMA Design	SF	lbs
				FLT lb-ft	LRT %	BDT %	208V	230V	460V	575V		FL	75%	50%	FL	75%	50%			
1	1730	143T/TC	2Y/Y	3.0	290	310	3.1	2.8	1.4	1.1	21	86.5	86.5	82.5	78.0	71.5	58.5	B	1.25	52
	1140	145T/TC	2Y/Y	4.6	255	300	3.8	3.4	1.7	1.4	21	84.0	84.2	80.0	66.0	58.0	45.5	B	1.25	58
	865	182T/TC	2Y/Y	6.1	200	265	4.2	3.8	1.9	1.5	20	84.0	84.1	81.0	60.0	52.0	40.5	B	1.25	97
1.5	3470	143T/TC	2Y/Y	2.3	250	310	4.2	3.8	1.9	1.5	32	85.5	85.5	83.5	88.5	84.0	75.5	B	1.25	52
	1730	145T/TC	2Y/Y	4.5	300	320	4.6	4.2	2.1	1.7	32	87.5	87.7	86.0	78.5	72.0	60.0	B	1.25	58
	1165	182T/TC	2Y/Y	6.8	270	280	5.3	4.8	2.4	1.9	35	87.5	87.8	85.5	68.0	60.0	46.0	B	1.25	97
2	865	184T/TC	2Y/Y	9.1	200	300	6.2	5.6	2.8	2.3	31	84.0	84.2	82.0	60.5	51.5	41.0	B	1.25	109
	3475	145T/TC	2Y/Y	3.0	250	315	5.5	5.0	2.5	2.0	48	86.5	86.8	85.5	89.0	86.0	77.0	B	1.25	60
	1730	145T/TC	2Y/Y	6.1	300	340	6.2	5.6	2.8	2.3	43	87.5	87.7	85.5	78.0	71.0	60.0	B	1.25	58
2	1165	184T/TC	2Y/Y	9.0	250	310	6.4	5.8	2.9	2.3	46	88.5	88.7	86.5	73.0	65.5	53.0	B	1.25	109
	865	213T/TC	2Δ/Δ	12.1	240	300	6.9	6.2	3.1	2.5	42	85.5	85.5	82.0	71.0	63.0	50.0	B	1.25	156
	3505	182T/TC	2Y/Y	4.5	210	290	8.0	7.2	3.6	2.9	64	88.5	88.7	87.0	90.0	87.0	80.0	B	1.25	90
3	1745	182T/TC	2Y/Y	9.0	260	310	8.6	7.8	3.9	3.1	64	90.2	90.3	89.0	81.0	75.0	63.5	B	1.25	93
	1170	213T/TC	2Δ/Δ	13.5	240	300	9.5	8.6	4.3	3.5	60	89.5	89.7	87.0	75.0	66.5	53.0	B	1.25	156
	865	215T/TC	2Δ/Δ	18.2	220	300	10.2	9.2	4.6	3.7	58	85.5	85.5	83.0	72.5	64.0	51.5	B	1.25	195
5	3505	184T/TC	2Y/Y	7.5	210	300	12.8	11.6	5.8	4.7	92	90.2	90.5	89.0	90.5	88.0	81.0	B	1.25	106
	1745	184T/TC	2Y/Y	15.1	260	300	14.2	12.8	6.4	5.1	92	90.2	90.4	89.1	82.5	77.0	66.0	B	1.25	106
	1170	215T/TC	2Δ/Δ	22.5	240	300	15.3	13.8	6.9	5.5	92	89.5	89.8	87.5	78.0	71.0	60.0	B	1.25	192
7.5	875	254T/TC	2Δ/Δ	30.0	180	220	16.6	15.0	7.5	6.0	80	89.5	89.8	88.2	70.0	65.5	51.0	B	1.25	270
	3500	213T/TC	2Δ/Δ	11.3	200	270	19.9	18.0	9.0	7.2	127	90.2	90.5	89.5	88.0	85.5	79.0	B	1.25	162
	1750	213T/TC	2Δ/Δ	22.5	230	260	20.1	18.2	9.1	7.3	127	91.7	91.3	90.2	86.0	83.0	74.0	B	1.25	168
10	1170	254T/TC	2Δ/Δ	33.7	200	240	22.3	20.2	10.1	8.1	127	91.7	92.0	91.5	77.0	72.0	61.5	B	1.25	282
	875	256T/TC	2Δ/Δ	45.0	180	220	25.0	22.6	11.3	9.1	110	89.5	89.8	88.5	70.5	66.0	52.0	B	1.25	290
	3500	215T/TC	2Δ/Δ	15.0	220	270	25.4	23.0	11.5	9.2	162	91.7	91.9	90.5	89.0	87.0	83.5	B	1.25	185
15	1750	215T/TC	2Δ/Δ	30.0	225	255	26.3	23.8	11.9	9.5	162	91.7	91.9	90.5	87.0	84.0	75.0	B	1.25	192
	1170	256T/TC	2Δ/Δ	44.9	200	240	29.2	26.4	13.2	10.6	162	91.7	92.1	91.7	79.0	74.5	65.0	B	1.25	310
	880	284T/TC	2Δ/Δ	59.7	210	250	33.2	30.0	15.0	12.0	162	91.0	91.3	89.5	70.0	63.0	51.0	B	1.15	390
20	3510	254T/TC	2Δ/Δ	22.5	210	270	38.3	34.6	17.3	13.8	232	91.0	91.0	90.2	91.0	90.0	86.0	B	1.25	300
	1760	254T/TC	2Δ/Δ	44.8	210	230	40.9	37.0	18.5	14.8	232	92.4	92.7	92.5	83.0	80.0	72.5	B	1.25	300
	1170	284T/TC	2Δ/Δ	67.3	210	230	42.9	38.8	19.4	15.5	232	92.4	92.6	91.3	80.0	75.5	66.3	B	1.15	390
25	880	286T/TC	2Δ/Δ	89.6	200	230	46.9	42.4	21.2	17.0	232	91.7	92.0	91.0	73.0	66.0	54.0	B	1.15	475
	3510	256T/TC	2Δ/Δ	29.9	210	280	50.9	46.0	23.0	18.4	290	91.0	91.4	90.5	91.0	90.0	87.5	B	1.25	325
	1760	256T/TC	2Δ/Δ	59.7	220	235	54.2	49.0	24.5	19.6	290	93.0	93.4	91.5	83.5	79.5	71.5	B	1.25	330
30	1170	286T/TC	2Δ/Δ	89.8	210	225	56.4	51.0	25.5	20.4	290	92.4	92.8	91.5	81.0	78.0	70.0	B	1.15	475
	880	324T/TC	2Δ/Δ	119.4	210	230	62.6	56.6	28.3	22.7	290	91.7	91.9	91.0	73.0	66.5	55.0	B	1.15	580
	3520	284TS/TSC	2Δ/Δ	37.3	230	250	63.5	57.4	28.7	23.0	365	91.7	91.7	91.4	90.5	90.0	87.0	B	1.15	410
35	1765	284T/TC	2Δ/Δ	74.4	200	220	66.3	60.0	30.0	24.0	365	93.6	93.8	93.2	84.0	81.0	73.0	B	1.15	410
	1175	324T/TC	2Δ/Δ	111.8	210	250	66.8	60.4	30.2	24.2	365	93.0	93.1	92.2	85.0	81.0	71.0	B	1.15	550
	880	326T/TC	2Δ/Δ	149.4	220	250	78.5	71.0	35.5	28.4	365	91.7	92.1	91.0	73.0	67.0	55.0	B	1.15	616
40	3525	286TS/TSC	2Δ/Δ	44.7	235	260	75.4	68.2	34.1	27.3	435	92.4	92.7	91.7	91.0	90.0	87.0	B	1.15	450
	1765	286T/TC	2Δ/Δ	89.3	200	230	79.6	72.0	36.0	28.8	435	93.6	93.9	92.5	84.0	81.5	75.0	B	1.15	475
	1175	326T/TC	2Δ/Δ	134.1	215	255	79.6	72.0	36.0	28.8	435	93.0	93.3	92.5	85.5	81.5	72.0	B	1.15	616
50	880	364T/TC	2Δ/Δ	179.2	210	240	92.0	83.2	41.6	33.3	435	92.4	92.6	915.0	74.0	69.0	58.0	B	1.15	850
	3530	324TS/TSC	2Δ/Δ	59.5	180	240	103.3	93.4	46.7	37.4	580	93.0	93.3	92.4	88.0	87.0	83.0	B	1.15	630
	1770	324T/TC	2Δ/Δ	118.7	200	215	104.8	94.8	47.4	38.0	580	95.0	95.3	94.4	84.5	82.0	76.0	B	1.15	600
50	1180	364T/TC	2Δ/Δ	178.1	200	220	106.2	96.0	48.0	38.4	580	94.5	94.7	93.7	84.0	82.0	75.0	B	1.15	850
	880	365T/TC	2Δ/Δ	239.0	210	225	119.4	108	54.0	43.2	580	92.4	92.7	91.7	76.0	72.5	62.5	B	1.15	960
	3550	326TS/TSC	2Δ/Δ	74.4	180	240	126.1	114.0	57.0	45.6	725	93.6	93.8	92.5	88.5	87.0	83.0	B	1.15	650
50	1770	326T/TC	2Δ/Δ	148.4	200	220	130.5	118.0	59.0	47.2	725	95.0	95.3	94.5	84.5	82.5	75.0	B	1.15	716
	1180	365T/TC	2Δ/Δ	222.6	200	230	132.7	120.0	60.0	48.0	725	94.5	94.8	94.3	84.0	83.0	75.5	B	1.15	960
	880	404T/TC	2Δ/Δ	298.7	200	230	148.2	134	67.0	53.6	725	93.0	93.4	92.5	76.0	70.0	60.0	B	1.15	1402

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### A-Line Premium 31N Series – 1-250 HP – Continued

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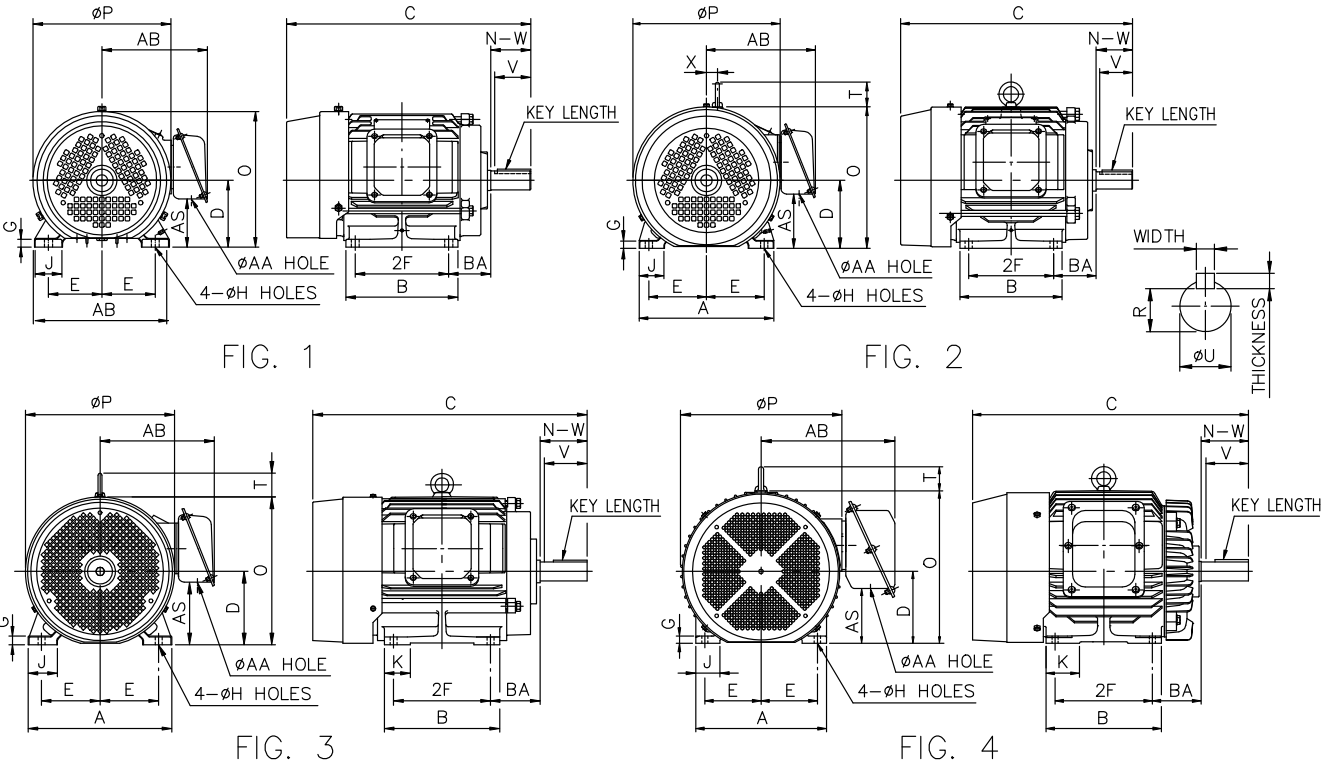
Parts and Accessories

Technical Data

HP	RPM	Frame	CONN	Torque			FLA				LRA	Efficiency			Power Factor			NEMA Design	SF	lbs
				FLT lb-ft	LRT %	BDT %	208V	230V	460V	575V		230V	FL	75%	50%	FL	75%			
60	3565	364TS/TSC	2Δ/Δ	88.5	160	220	150.4	136	68	54.4	870	93.6	93.8	93.5	89	86	80.5	B	1.15	823
	1770	364T/TC	2Δ/Δ	178	200	240	158.1	143	71.5	57.2	870	95	95.2	94.3	84	81	78	B	1.15	836
	1180	404T/TC	2Δ/Δ	267.1	200	240	163.7	148	74	59.2	870	94.5	94.6	94.3	82	79.5	72	B	1.15	1270
	880	404/5T/TC	2Δ/Δ	358.5	200	240	174.7	158	79	63.2	870	92.4	92.6	91.7	77	72	62	B	1.15	1270
75	3565	364/5TS	2Δ/Δ	110.6	160	220	185.8	168	84	67.2	1085	93.6	93.7	92.6	89	87.5	83.5	B	1.15	823
	1770	364/5T	2Δ/Δ	222.6	200	240	199.0	180	90	72	1085	95.4	95.3	94.5	84	81.4	75.5	B	1.15	864
	1180	404/5T	2Δ/Δ	333.8	200	240	200.1	181	90.5	72.4	1085	94.5	94.8	94	83	80.5	73	B	1.15	1270
	885	444T	2Δ/Δ	445.6	210	230	216.7	196	98	78.4	1085	93.6	93.7	92.5	77	72	60	B	1.15	1810
100	3570	404/5TS	2Δ/Δ	148.4	160	240	245.5	222	111	89	1450	94.1	93.5	92.4	88.5	87	82.5	B	1.15	1170
	1780	404/5T	2Δ/Δ	295.9	200	220	265.4	240	120	96	1450	95.4	95.3	93.5	83	81	74	B	1.15	1270
	1185	444T	2Δ/Δ	445.1	200	250	274.2	248	124	99	1450	95	95.1	94.2	80.5	78	70.5	B	1.15	1810
	885	444/5T	2Δ/Δ	594.1	200	240	283.1	256	128	102	1450	93.6	93.9	92.1	78	74	64	B	1.15	1810
125	3550	444TS	2Δ/Δ	184.9	160	220	320.7	290	145	116	1815	95	94.7	93.5	86.5	84.5	77	B	1.15	1640
	1785	444T	2Δ/Δ	369.9	180	230	327.3	296	148	118	1815	95.4	95	93.5	84	81	73.5	B	1.15	1810
	1180	444/5T	2Δ/Δ	556.4	200	220	331.7	300	150	120	1815	95	95	94.5	80.5	76.5	67.5	B	1.15	1810
	890	447T	2Δ/Δ	756.1	190	230	351.6	318	159	127	1815	94.1	94.3	93.5	78.5	75	66	B	1.15	2607
150	3570	444/5TS	2Δ/Δ	221.9	160	220	367.1	332	166	133	2170	95	94.6	93.6	89	88	83.5	B	1.15	1640
	1785	444/5T	2Δ/Δ	442.6	180	220	387.0	350	175	140	2170	95.8	95.7	95.1	85	83	77.5	B	1.15	1810
	1180	447T	2Δ/Δ	667.7	200	240	393.7	356	178	142	2170	95.8	96	95.1	83.5	81	73.5	B	1.15	2607
	885	447/9T	2Δ/Δ	888.9	180	230	419.1	379	190	152	2170	94.1	94.2	93.2	78.5	74.5	65	B	1.15	2607
200	3570	447TS	2Δ	295.1	160	220	–	–	110	–	–	95.4	95	93.7	89.5	85.5	79	B	1.15	2150
	1780	447T	2Δ	590.1	180	210	–	–	116	–	–	96.2	96.4	95.5	85	83	77	B	1.15	2607
	1185	447/9T	2Δ	887.3	190	210	–	–	117	–	–	95.8	95.9	95	84	82	75	B	1.15	2607
250	3570	447/9TS	2Δ	368.2	160	220	–	–	138	–	–	95.8	95.5	94	89	87	84	B	1.15	2150
	1780	447/9T	2Δ	736.4	180	200	–	–	146	–	–	96.2	96.2	95	84.5	83	77	B	1.15	2607
	1185	447/9T	2Δ	1109	160	200	–	–	147	–	–	95.8	95.8	95	83.5	81	73	B	1.15	2607



## A-Line Premium 31N Series – 143T-286TS Footed Mounting Dimensions



Frame	Fig No	Mounting				BA	A	B	C	D	G	J	K	P	O+T	Key			Conduit Box			Shaft Extension			Bearings		
		E	2F	2F1	ØH											W	T	L	ØAA	AB	AC	N-W	ØU	V	DE	ODE	
143T	1	2.75	4.00	-	0.34	2.25	6.93	4.88	12.25	3.50	0.35	1.57	-	8.15	7.57	0.188	0.188	1.375	0.771	1.10	7.00	5.04	2.25	0.875	2.20	6205ZZ	6205ZZ
145T		2.75	5.00	4.00	0.34	2.25	6.93	5.87	13.24	3.50	0.35	1.57	-	8.15	7.57	0.188	0.188	1.375	0.771	1.10	7.00	5.04	2.25	0.875	2.20	6205ZZ	6205ZZ
182T	2	3.75	4.50	-	0.41	2.75	8.66	5.59	14.43	4.50	0.56	1.57	-	9.55	10.90	0.250	0.250	1.750	0.986	1.10	7.87	5.97	2.75	1.125	2.70	6207ZZ	6206ZZ
184T		3.75	5.50	4.50	0.41	2.75	8.66	6.61	15.42	4.50	0.56	1.57	-	9.55	10.90	0.250	0.250	1.750	0.986	1.10	7.87	5.97	2.75	1.125	2.70	6207ZZ	6206ZZ
213T	3	4.25	5.50	-	0.41	3.50	10.23	6.89	17.94	5.25	0.65	1.97	-	11.20	12.49	0.312	0.312	2.375	1.201	1.38	8.60	7.05	3.38	1.375	3.30	6308ZZ	6208ZZ
215T		4.25	7.00	5.50	0.41	3.50	10.23	8.39	19.43	5.25	0.65	1.97	-	11.20	12.49	0.312	0.312	2.375	1.201	1.38	8.60	7.05	3.38	1.375	3.30	6308ZZ	6208ZZ
254T	4	5.00	8.25	-	0.53	4.25	12.12	9.84	23.40	6.25	0.71	2.36	-	12.80	14.60	0.375	0.375	2.910	1.416	2.05	10.43	8.58	4.00	1.625	3.90	6310ZZ	6208ZZ
256T		5.00	10.00	8.25	0.53	4.25	12.12	11.60	25.10	6.25	0.71	2.36	-	12.80	14.60	0.375	0.375	2.910	1.416	2.05	10.43	8.58	4.00	1.625	3.90	6310ZZ	6208ZZ
284T	4	5.50	9.50	-	0.53	4.75	12.76	11.26	26.90	7.00	0.79	2.36	3.25	15.75	17.30	0.500	0.500	3.280	1.591	2.48	13.40	10.82	4.62	1.875	4.50	6310ZZ	6210ZZ
284TS		5.50	9.50	-	0.53	4.75	12.76	11.26	25.53	7.00	0.79	2.36	3.25	15.75	17.30	0.375	0.375	1.910	1.416	2.48	13.40	10.82	3.25	1.625	3.20	6310ZZ	6210ZZ
286T	4	5.50	11.00	9.50	0.53	4.75	12.76	12.76	28.40	7.00	0.79	2.36	3.25	15.75	17.30	0.500	0.500	3.280	1.591	2.48	13.40	10.82	4.62	1.875	4.50	6310ZZ	6210ZZ
286TS		5.50	11.00	9.50	0.53	4.75	12.76	12.76	27.03	7.00	0.79	2.36	3.25	15.75	17.30	0.375	0.375	1.910	1.416	2.48	13.40	10.82	3.25	1.625	3.20	6310ZZ	6210ZZ
324T	4	6.25	10.50	-	0.66	5.25	14.88	12.68	29.82	8.00	0.91	3.15	3.15	17.75	19.13	0.500	0.500	3.910	1.845	2.48	14.40	11.80	5.25	2.125	5.00	6312	6212
324TS		6.25	10.50	-	0.66	5.25	14.88	12.68	28.32	8.00	0.91	3.15	3.15	17.75	19.13	0.500	0.500	2.030	1.591	2.48	14.40	11.80	3.75	1.875	3.50	6312C3	6212C3
326T	4	6.25	12.00	10.50	0.66	5.25	14.88	14.17	31.32	8.00	0.91	3.15	3.15	17.75	19.13	0.500	0.500	3.910	1.845	2.48	14.40	11.80	5.25	2.125	5.00	6312	6212
326TS		6.25	12.00	10.50	0.66	5.25	14.88	14.17	29.82	8.00	0.91	3.15	3.15	17.75	19.13	0.500	0.500	2.030	1.591	2.48	14.40	11.80	3.75	1.875	3.50	6312C3	6212C3

Tolerance on dimension D: +0.00 inch, -0.06 inch  
 Tolerance on dimension U: +0.000 inch, -0.0005 inch for frames 143T-215T; +0.000 inch, -0.001 inch for frames 254T-365T  
 Tolerance on dimension R: +0.000 inch, -0.015 inch.  
 Dimension V is length of straight part shaft.

All 2-pole motors are used for direct coupling only. For belt drive applications, please contact Elektrim Motors Engineering.  
 In all frames, ball bearings for direct coupling applications.

The conduit box can be rotated in 90° increments so that conduit can be received from any direction. Conduit box can be located on either side of motor.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

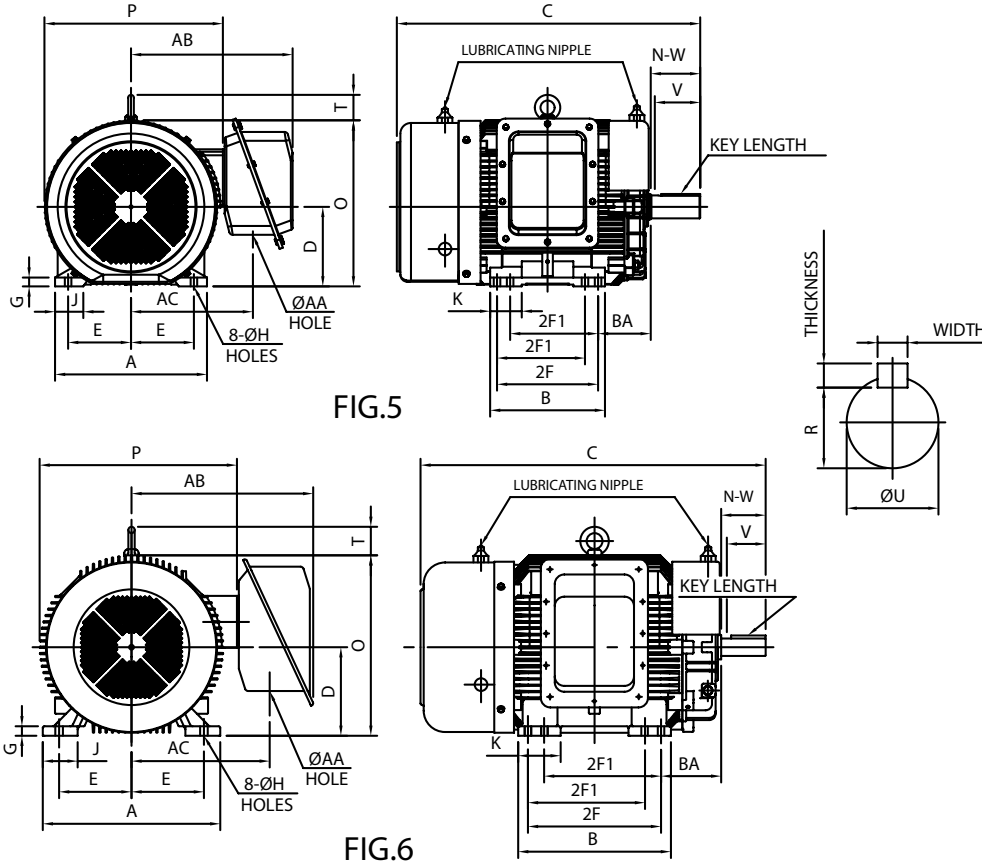
Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

### A-Line Premium 31N Series – 364T-449TS Footed Mounting Dimensions

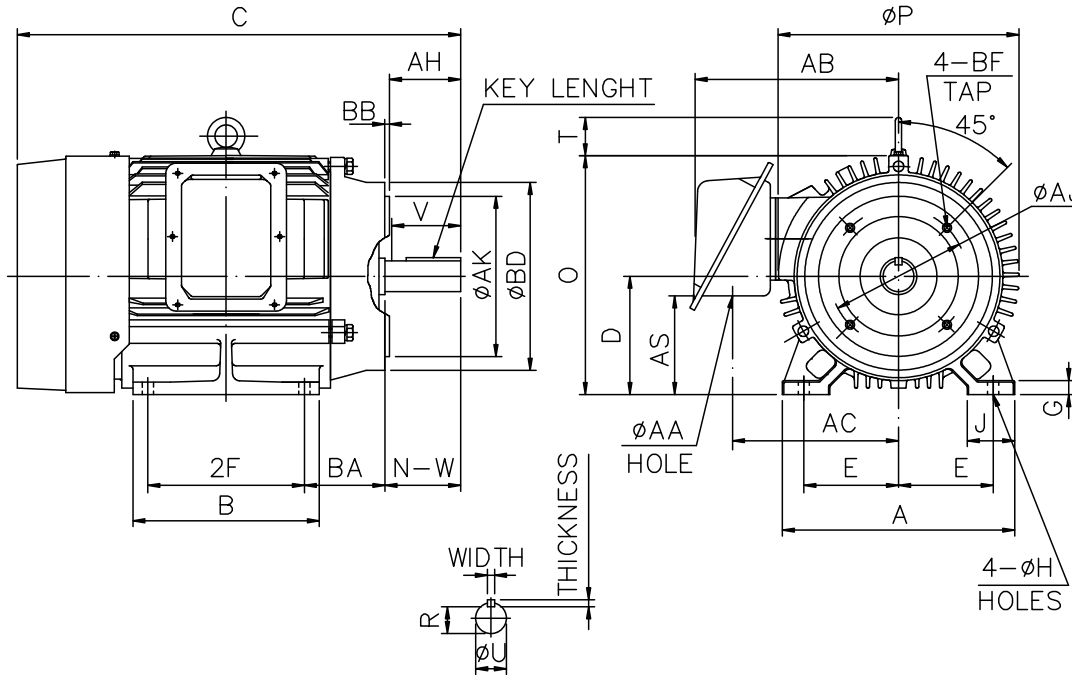


Frame	Fig No	Mounting				BA	A	B	C	D	G	J	K	P	O+T	Key			Key Seat R	Conduit Box			Shaft Extension			Bearings	
		E	2F	2F1	ØH											W	T	L		ØAA	AB	AC	N-W	ØU	V	DE	ODE
364T	5	7.00	12.25	11.25	0.66	5.88	16.93	13.78	35.15	9.00	1.14	3.15	4.01	19.88	21.44	0.625	0.625	4.28	2.021	3.58	17.56	14.01	5.88	2.375	5.75	6314Z/C3	6314Z/C3
364TS		7.00	12.25	11.25	0.66	5.88	16.93	13.78	33.02	9.00	1.14	3.15	4.01	19.88	21.44	0.500	0.500	2.03	1.591	3.58	17.56	14.01	3.75	1.875	3.50	6314Z/C3	6314Z/C3
365T		7.00	12.25	11.25	0.66	5.88	16.93	13.78	35.15	9.00	1.14	3.15	4.01	19.88	21.44	0.625	0.625	4.28	2.021	3.58	17.56	14.01	5.88	2.375	5.75	6314Z/C3	6314Z/C3
365TS		7.00	12.25	11.25	0.66	5.88	16.93	13.78	33.02	9.00	1.14	3.15	4.01	19.88	21.44	0.500	0.500	2.03	1.591	3.58	17.56	14.01	3.75	1.875	3.50	6314Z/C3	6314Z/C3
404T		8.00	13.75	12.25	0.81	6.62	19.30	16.22	38.83	10.00	1.38	3.52	4.37	20.87	22.8	0.750	0.750	5.65	2.450	4.65	19.73	15.28	7.25	2.875	7.00	6316Z/C3	6316Z/C3
404TS	8.00	13.75	12.25	0.81	6.62	19.30	16.22	35.83	10.00	1.38	3.52	4.37	20.87	22.8	0.500	0.500	2.78	1.845	4.65	19.73	15.28	4.25	2.125	4.00	6316Z/C3	6316Z/C3	
405T	8.00	13.75	12.25	0.81	6.62	19.30	16.22	38.83	10.00	1.38	3.52	4.37	20.87	22.8	0.750	0.750	5.65	2.450	4.65	19.73	15.28	7.25	2.875	7.00	6316Z/C3	6316Z/C3	
405TS	8.00	13.75	12.25	0.81	6.62	19.30	16.22	35.83	10.00	1.38	3.52	4.37	20.87	22.8	0.500	0.500	2.78	1.845	4.65	19.73	15.28	4.25	2.125	4.00	6316Z/C3	6316Z/C3	
444T	6	9.00	16.50	14.50	0.81	7.50	22.05	19.06	45.84	11.00	1.38	4.33	5.31	23.23	25.76	0.875	0.875	6.91	2.880	4.65	20.91	16.46	8.50	3.375	8.25	6318Z/C3	6316Z/C3
444TS		9.00	16.50	14.50	0.81	7.50	22.05	19.06	42.09	11.00	1.38	4.33	5.31	23.23	25.76	0.625	0.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.50	6316Z/C3	6316Z/C3
445T		9.00	16.50	14.50	0.81	7.50	22.05	19.06	45.84	11.00	1.38	4.33	5.31	23.23	25.76	0.875	0.875	6.91	2.880	4.65	20.91	16.46	8.50	3.375	8.25	6318Z/C3	6316Z/C3
445TS		9.00	16.50	14.50	0.81	7.50	22.05	19.06	42.09	11.00	1.38	4.33	5.31	23.23	25.76	0.625	0.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.50	6316Z/C3	6316Z/C3
447T		9.00	25.00	20.00	0.81	7.50	22.05	27.95	54.35	11.00	1.38	4.33	8.07	23.23	25.76	0.875	0.875	6.91	2.880	4.65	20.91	16.46	8.50	3.375	8.25	6320Z/C3	6316Z/C3
447TS		9.00	25.00	20.00	0.81	7.50	22.05	27.95	50.60	11.00	1.38	4.33	8.07	23.23	25.76	0.625	0.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.50	6316Z/C3	6316Z/C3
449T		9.00	25.00	20.00	0.81	7.50	22.05	27.95	54.35	11.00	1.38	4.33	8.07	23.23	25.76	0.875	0.875	6.91	2.880	4.65	20.91	16.46	8.50	3.375	8.25	6320Z/C3	6316Z/C3
449TS		9.00	25.00	20.00	0.81	7.50	22.05	27.95	50.60	11.00	1.38	4.33	8.07	23.23	25.76	0.625	0.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.50	6316Z/C3	6316Z/C3

Tolerance on dimension D: +0.00 inch, -0.06 inch  
 Tolerance on dimension U: +0.000 inch, -0.0005 inch for frames 143T-215T; +0.000 inch, -0.001 inch for frames 254T-365T  
 Tolerance on dimension R: +0.000 inch, -0.015 inch.  
 Dimension V is length of straight part shaft.

All 2-pole motors are used for direct coupling only. For belt drive applications, please contact Elektrim Motors Engineering.  
 In all frames, ball bearings for direct coupling applications.  
 The conduit box can be rotated in 90° increments so that conduit can be received from any direction. Conduit box can be located on either side of motor.

## A-Line Premium 31N Series – 143TC-326TSC C-Face Mounting Dimensions



Frame	Flange					BF Hole		U	AH	Key Seat		
	AJ	AK	BD	BB	BA	NO	SIZE			R	Length	Width
143TC	5.875	4.5	6.5	0.16	2.25	4	3/8-16	0.875	2.12	0.771	1.375	0.188
145TC	5.875	4.5	6.5	0.16	2.25	4	3/8-16	0.875	2.12	0.771	1.375	0.188
182TC	7.25	8.5	9	0.25	2.75	4	1/2-13	1.125	2.62	0.986	1.75	0.25
184TC	7.25	8.5	9	0.25	2.75	4	1/2-13	1.125	2.62	0.986	1.75	0.25
213TC	7.25	8.5	9	0.25	3.5	4	1/2-13	1.375	3.12	1.201	2.375	0.312
215TC	7.25	8.5	9	0.25	3.5	4	1/2-13	1.375	3.12	1.201	2.375	0.312
254TC	7.25	8.5	10	0.25	4.25	4	1/2-13	1.625	3.75	1.416	2.91	0.375
256TC	7.25	8.5	10	0.25	4.25	4	1/2-13	1.625	3.75	1.416	2.91	0.375
284TC	9	10.5	11.25	0.25	4.75	4	1/2-13	1.875	4.38	1.591	3.28	0.5
284TSC	9	10.5	11.25	0.25	4.75	4	1/2-13	1.625	3	1.416	1.91	0.375
286TC	9	10.5	11.25	0.25	4.75	4	1/2-13	1.875	4.38	1.591	3.28	0.5
286TSC	9	10.5	11.25	0.25	4.75	4	1/2-13	1.625	3	1.416	1.91	0.375
324TC	11	12.5	14	0.25	5.25	4	5/8-11	2.125	5	1.845	3.91	0.5
324TSC	11	12.5	14	0.25	5.25	4	5/8-11	1.875	3.5	1.591	2.03	0.5
326TC	11	12.5	14	0.25	5.25	4	5/8-11	2.125	5	1.845	3.91	0.5
326TSC	11	12.5	14	0.25	5.25	4	5/8-11	1.875	3.5	1.591	2.03	0.5

Tolerance of shaft end diameter dimension U: +0.000 inch, -0.001 inch  
 Tolerance of shaft center height dimension D: +0.000 inch, -0.03 inch  
 Tolerance on dimension R: +0.000 inch, -0.015 inch.  
 Tolerance on dimension AK: +0.000 inch, -0.003 inch.  
 Dimension V is length of straight part shaft.

The conduit box can be rotated in 90° increments so that conduit can be received from any direction. Conduit box can be located on either side of motor.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

### A-Line Premium 31N Series – 364TC-449TSC C-Face Mounting Dimensions

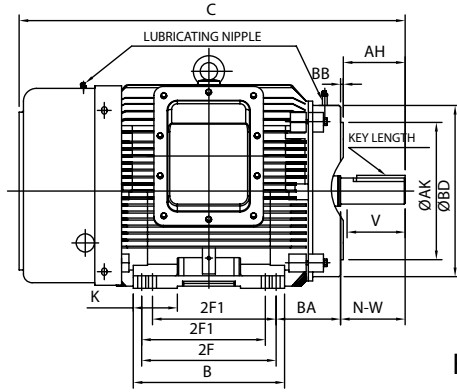


FIG.5

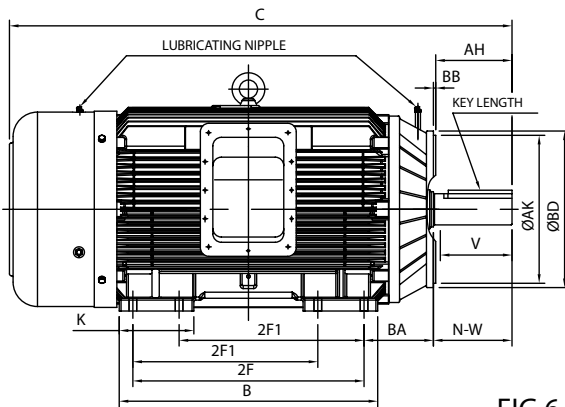
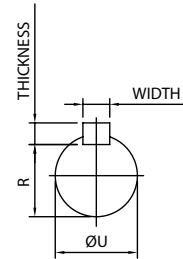
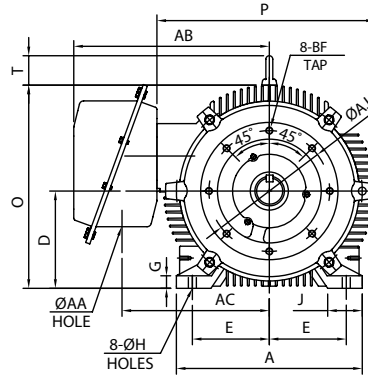
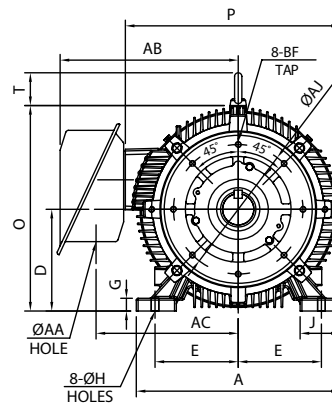


FIG.6

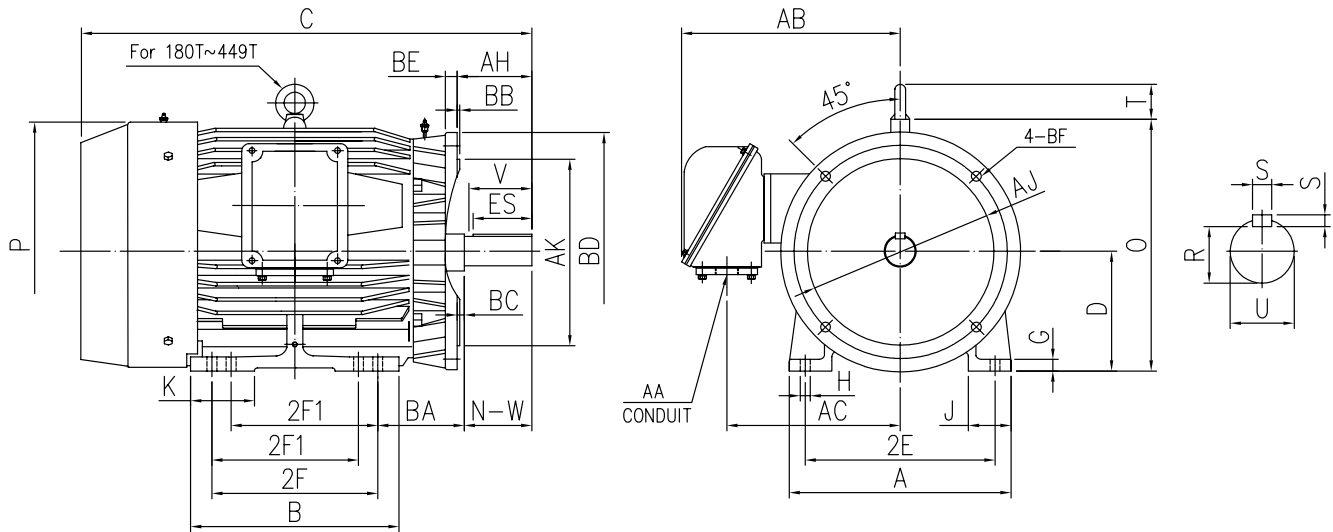


Frame	Fig No	Mounting					A	B	C	D	G	J	K	P	O+T	C-Face				AH	BB	Key			Key Seat			Conduit Box			Shaft Ext			Bearings	
		E	2F	2F1	H	BA										AK	AJ	BD	BF			W	T	L	R	AA	AB	AC	N-W	U	V	DE	ODE		
364TC	5	7	12.25	11.25	0.66	5.88	16.93	13.78	35.15	9	1.14	3.15	4.01	19.88	21.44	12.5	11	14	8-5/8-11	5.62	0.25	0.625	0.625	4.28	2.021	3.58	17.56	14.01	5.88	2.375	5.75	6314Z/C3	6314Z/C3		
364TSC		7	12.25	11.25	0.66	5.88	16.93	13.78	33.02	9	1.14	3.15	4.01	19.88	21.44	12.5	11	14	8-5/8-11	3.5	0.25	0.5	0.5	2.03	1.591	3.58	17.56	14.01	3.75	1.875	3.5	6314Z/C3	6314Z/C3		
365TC		7	12.25	11.25	0.66	5.88	16.93	13.78	35.15	9	1.14	3.15	4.01	19.88	21.44	12.5	11	14	8-5/8-11	5.62	0.25	0.625	0.625	4.28	2.021	3.58	17.56	14.01	5.88	2.375	5.75	6314Z/C3	6314Z/C3		
365TSC		7	12.25	11.25	0.66	5.88	16.93	13.78	33.02	9	1.14	3.15	4.01	19.88	21.44	12.5	11	14	8-5/8-11	3.5	0.25	0.5	0.5	2.03	1.591	3.58	17.56	14.01	3.75	1.875	3.5	6314Z/C3	6314Z/C3		
404TC	6	8	13.75	12.25	0.81	6.62	19.3	16.22	38.83	10	1.38	3.52	4.37	20.87	22.8	12.5	11	15.5	8-5/8-11	7	0.25	0.75	0.75	5.65	2.45	4.65	19.73	15.28	7.25	2.875	7	6316Z/C3	6316Z/C3		
404TSC		8	13.75	12.25	0.81	6.62	19.3	16.22	35.83	10	1.38	3.52	4.37	20.87	22.8	12.5	11	15.5	8-5/8-11	4	0.25	0.5	0.5	2.78	1.845	4.65	19.73	15.28	4.25	2.125	4	6316Z/C3	6316Z/C3		
405TC		8	13.75	12.25	0.81	6.62	19.3	16.22	38.83	10	1.38	3.52	4.37	20.87	22.8	12.5	11	15.5	8-5/8-11	7	0.25	0.75	0.75	5.65	2.45	4.65	19.73	15.28	7.25	2.875	7	6316Z/C3	6316Z/C3		
405TSC		8	13.75	12.25	0.81	6.62	19.3	16.22	35.83	10	1.38	3.52	4.37	20.87	22.8	12.5	11	15.5	8-5/8-11	4	0.25	0.5	0.5	2.78	1.845	4.65	19.73	15.28	4.25	2.125	4	6316Z/C3	6316Z/C3		
444TC	6	9	16.5	14.5	0.81	7.5	22.05	19.06	45.84	11	1.38	4.33	5.31	23.23	25.76	16	14	16.95	8-5/8-11	8.25	0.25	0.875	0.875	6.91	2.88	4.65	20.91	16.46	8.5	3.375	8.25	6318Z/C3	6316Z/C3		
444TSC		9	16.5	14.5	0.81	7.5	22.05	19.06	42.09	11	1.38	4.33	5.31	23.23	25.76	16	14	16.95	8-5/8-11	4.5	0.25	0.625	0.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.5	6316Z/C3	6316Z/C3		
445TC		9	16.5	14.5	0.81	7.5	22.05	19.06	45.84	11	1.38	4.33	5.31	23.23	25.76	16	14	16.95	8-5/8-11	8.25	0.25	0.875	0.875	6.91	2.88	4.65	20.91	16.46	8.5	3.375	8.25	6318Z/C3	6316Z/C3		
445TSC		9	16.5	14.5	0.81	7.5	22.05	19.06	42.09	11	1.38	4.33	5.31	23.23	25.76	16	14	16.95	8-5/8-11	4.5	0.25	0.625	0.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.5	6316Z/C3	6316Z/C3		
447TC	6	9	25	20	0.81	7.5	22.05	27.95	54.35	11	1.38	4.33	8.07	23.23	25.76	16	14	16.95	8-5/8-11	8.25	0.25	0.875	0.875	6.91	2.88	4.65	20.91	16.46	8.5	3.375	8.25	6320Z/C3	6316Z/C3		
447TSC		9	25	20	0.81	7.5	22.05	27.95	50.6	11	1.38	4.33	8.07	23.23	25.76	16	14	16.95	8-5/8-11	4.5	0.25	0.625	0.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.5	6316Z/C3	6316Z/C3		
449TC		9	25	20	0.81	7.5	22.05	27.95	54.35	11	1.38	4.33	8.07	23.23	25.76	16	14	16.95	8-5/8-11	8.25	0.25	0.875	0.875	6.91	2.88	4.65	20.91	16.46	8.5	3.375	8.25	6320Z/C3	6316Z/C3		
449TSC		9	25	20	0.81	7.5	22.05	27.95	50.6	11	1.38	4.33	8.07	23.23	25.76	16	14	16.95	8-5/8-11	4.5	0.25	0.625	0.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.5	6316Z/C3	6316Z/C3		

Tolerance on dimension D : +0.00 inch, -0.06 inch  
 Tolerance on dimension R : +0.00 inch, -0.015 inch  
 Tolerance on dimension U : +0.00 inch, -0.001 inch for frame 364T~449T  
 Tolerance on dimension AK : +0.00 inch, -0.005 inch for frame 364T~449T  
 Dimension V is length of straight part of shaft.

The conduit box can be rotated in 90° increments so that conduit can be received from any direction. Conduit box can be located on either side of motor.

## A-Line Premium 31N Series – 143TD-326TSD D-Flange Mounting Dimensions



Frame	Mounting					A	B	C	D	G	J	K	P	O+T	Key		Key Seat R	Conduit Box			Shaft Ext			D-Flange						Bearings			
	E	2F	2F1	H	BA										S	ES		AA	AB	AC	N-W	U	V	AH	AJ	AK	BD	BC	BB	BE	BF	DE	ODE
143TD	2.75	4	-	.34	2.25	6.93	4.88	12.25	3.5	.35	1.57	-	8.15	7.57	.188	1.375	.771	NPT3/4	7.52	5.62	2.25	.875	2.2	2.25	10	9	11	0	.25	.5	.53	6205ZZ	6205ZZ
145TD	2.75	5	4	.34	2.25	6.93	5.87	13.24	3.5	.35	1.57	-	8.15	7.57	.188	1.375	.771	NPT3/4	7.52	5.62	2.25	.875	2.2	2.25	10	9	11	0	.25	.5	.53	6205ZZ	6205ZZ
182TD	3.75	4.5	-	.41	2.75	8.66	5.59	14.43	4.5	.56	1.57	-	9.55	10.9	.25	1.75	.986	NPT3/4	8.18	6.22	2.75	1.125	2.7	2.75	10	9	11	0	.25	.5	.53	6207ZZ	6206ZZ
184TD	3.75	5.5	4.5	.41	2.75	8.66	6.61	15.42	4.5	.56	1.57	-	9.55	10.9	.25	1.75	.986	NPT3/4	8.18	6.22	2.75	1.125	2.7	2.75	10	9	11	0	.25	.5	.53	6207ZZ	6206ZZ
213TD	4.25	5.5	-	.43	3.5	10.23	6.89	17.94	5.25	.65	1.97	-	11.2	12.49	.312	2.41	1.201	NPT1	9.29	7.08	3.38	1.375	3.3	3.38	10	9	11	0	.25	.5	.53	6308ZZ	6208ZZ
215TD	4.25	7	5.5	.43	3.5	10.23	8.39	19.43	5.25	.65	1.97	-	11.2	12.49	.312	2.41	1.201	NPT1	9.29	7.08	3.38	1.375	3.3	3.38	10	9	11	0	.25	.5	.53	6308ZZ	6208ZZ
254TD	5	8.25	-	.53	4.25	12.12	9.84	23.4	6.25	.71	2.36	-	12.8	14.6	.375	2.91	1.416	NPT1 1/4	11.4	8.66	4	1.625	3.9	4	12.5	11	14	0	.25	.75	.81	6310ZZ	6208ZZ
256TD	5	10	8.25	.53	4.25	12.12	11.6	25.1	6.25	.71	2.36	-	12.8	14.6	.375	2.91	1.416	NPT1 1/4	11.4	8.66	4	1.625	3.9	4	12.5	11	14	0	.25	.75	.81	6310ZZ	6208ZZ
284TSD	5.5	9.5	-	.53	4.75	12.76	11.26	25.53	7	.79	2.36	3.25	15.75	17.3	.375	1.91	1.416	NPT1 1/2	13.98	10.8	3.25	1.625	3.2	3.25	12.5	11	14	0	.25	.75	.81	6310ZZ	6210ZZ
284TD	5.5	9.5	-	.53	4.75	12.76	11.26	26.9	7	.79	2.36	3.25	15.75	17.3	.5	3.28	1.591	NPT1 1/2	13.98	10.8	4.62	1.875	4.5	4.62	12.5	11	14	0	.25	.75	.81	6310ZZ	6210ZZ
286TSD	5.5	11	9.5	.53	4.75	12.76	12.76	27.03	7	.79	2.36	3.25	15.75	17.3	.375	1.91	1.416	NPT1 1/2	13.98	10.8	3.25	1.625	3.2	3.25	12.5	11	14	0	.25	.75	.81	6310ZZ	6210ZZ
286TD	5.5	11	9.5	.53	4.75	12.76	12.76	28.4	7	.79	2.36	3.25	15.75	17.3	.5	3.28	1.591	NPT1 1/2	13.98	10.8	4.62	1.875	4.5	4.62	12.5	11	14	0	.25	.75	.81	6310ZZ	6210ZZ
324TSD	6.25	10.5	-	.66	5.25	14.88	12.68	28.32	8	.91	3.15	3.15	17.79	19.13	.5	2.03	1.591	NPT2	15.15	11.8	3.75	1.875	3.5	3.75	16	14	18	0	.25	.75	.81	6312C3	6212C3
324TD	6.25	10.5	-	.66	5.25	14.88	12.68	29.82	8	.91	3.15	3.15	17.79	19.13	.5	3.91	1.845	NPT2	15.15	11.8	5.25	2.125	5	5.25	16	14	18	0	.25	.75	.81	6312	6212
326TSD	6.25	12	10.5	.66	5.25	14.88	14.17	29.82	8	1.1	3.15	3.15	17.79	19.13	.5	2.03	1.591	NPT2	15.15	11.8	3.75	1.875	3.5	3.75	16	14	18	0	.25	.75	.81	6312C3	6212C3
326TD	6.25	12	10.5	.66	5.25	14.88	14.17	31.32	8	1.1	3.15	3.15	17.79	19.13	.5	3.91	1.845	NPT2	15.15	11.8	5.25	2.125	5	5.25	16	14	18	0	.25	.75	.81	6312	6212

Tolerance on dimension D : +0.00 inch, -0.06 inch  
 Tolerance on dimension U : +0.00 inch, -0.0005 inch for frame 143T~215T, +0.00 inch, -0.001 inch for frame 254T~449T  
 Tolerance on dimension R : +0.00 inch, -0.015 inch  
 Dimension V is length of straight part of shaft.

The conduit box can be rotated in 90° increments so that conduit can be received from any direction. Conduit box can be located on either side of motor.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

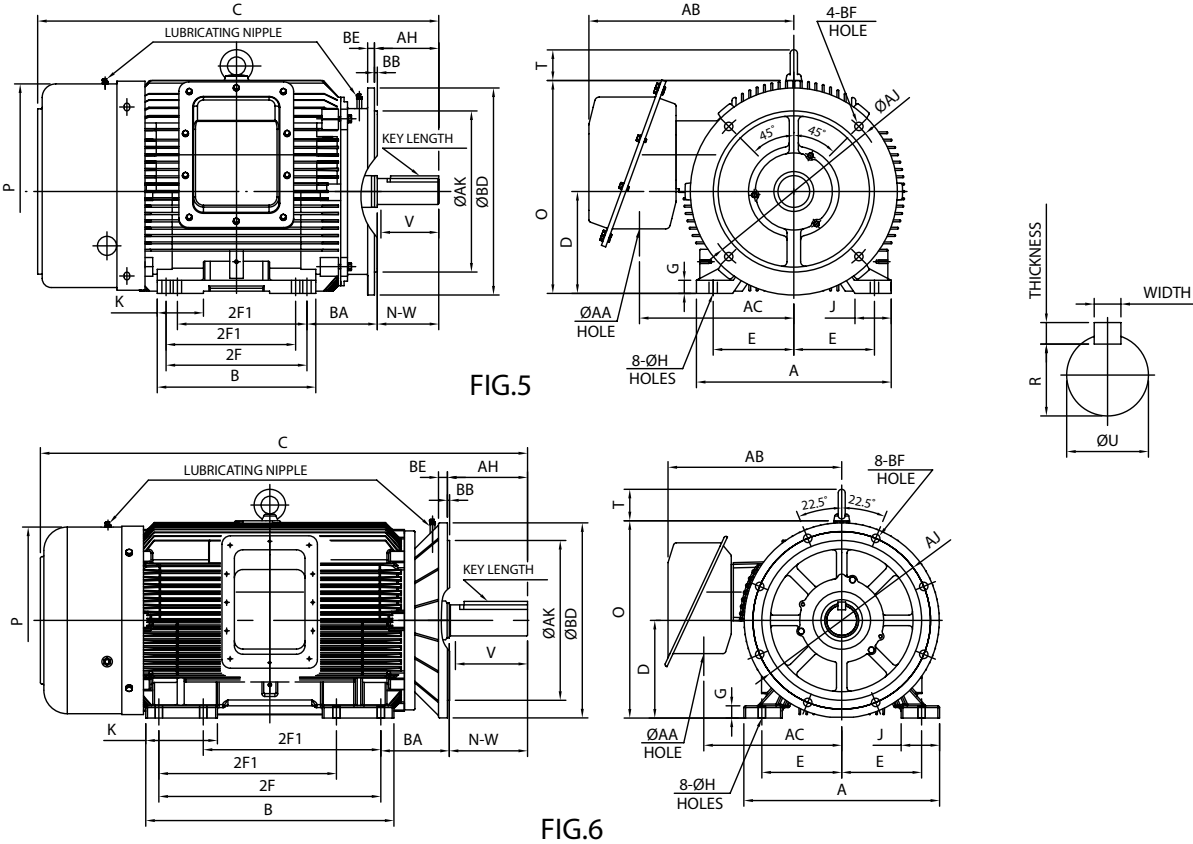
Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

### A-Line Premium 31N Series – 364TD-449TSD D-Flange Mounting Dimensions



Frame	Fig No	Mounting										D-Flange								Key			Key Seat			Conduit Box			Shaft Ext			Bearings		
		E	2F	2F1	H	BA	A	B	C	D	G	J	K	P	O+T	AK	AJ	BD	BE	BF	AH	BB	W	T	L	R	AA	AB	AC	N-W	U	V	DE	ODE
364TD	5	7	12.25	11.25	.66	5.88	16.93	13.78	35.15	9	1.14	3.15	4.01	19.88	21.44	14	16	18	.75	.81	5.88	.25	.625	.625	4.28	2.021	3.58	17.56	14.01	5.88	2.375	5.75	6314Z/C3	6314Z/C3
364TSD		7	12.25	11.25	.66	5.88	16.93	13.78	33.02	9	1.14	3.15	4.01	19.88	21.44	14	16	18	.75	.81	3.75	.25	.5	.5	2.03	1.591	3.58	17.56	14.01	3.75	1.875	3.5	6314Z/C3	6314Z/C3
365TD		7	12.25	11.25	.66	5.88	16.93	13.78	35.15	9	1.14	3.15	4.01	19.88	21.44	14	16	18	.75	.81	5.88	.25	.625	.625	4.28	2.021	3.58	17.56	14.01	5.88	2.375	5.75	6314Z/C3	6314Z/C3
365TSD		7	12.25	11.25	.66	5.88	16.93	13.78	33.02	9	1.14	3.15	4.01	19.88	21.44	14	16	18	.75	.81	3.75	.25	.5	.5	2.03	1.591	3.58	17.56	14.01	3.75	1.875	3.5	6314Z/C3	6314Z/C3
404TD	6	8	13.75	12.25	.81	6.62	19.3	16.22	38.83	10	1.38	3.52	4.37	20.87	22.8	18	20	22	1	.81	7.25	.25	.75	.75	5.65	2.45	4.65	19.73	15.28	7.25	2.875	7	6316Z/C3	6316Z/C3
404TSD		8	13.75	12.25	.81	6.62	19.3	16.22	35.83	10	1.38	3.52	4.37	20.87	22.8	18	20	22	1	.81	4.25	.25	.5	.5	2.78	1.845	4.65	19.73	15.28	4.25	2.125	4	6316Z/C3	6316Z/C3
405TD		8	13.75	12.25	.81	6.62	19.3	16.22	38.83	10	1.38	3.52	4.37	20.87	22.8	18	20	22	1	.81	7.25	.25	.75	.75	5.65	2.45	4.65	19.73	15.28	7.25	2.875	7	6316Z/C3	6316Z/C3
405TSD		8	13.75	12.25	.81	6.62	19.3	16.22	35.83	10	1.38	3.52	4.37	20.87	22.8	18	20	22	1	.81	4.25	.25	.5	.5	2.78	1.845	4.65	19.73	15.28	4.25	2.125	4	6316Z/C3	6316Z/C3
444TD	6	9	16.5	14.5	.81	7.5	22.05	19.06	45.84	11	1.38	4.33	5.31	23.23	25.76	18	20	22	1	.81	8.5	.25	.875	.875	6.91	2.88	4.65	20.91	16.46	8.5	3.375	8.25	6318Z/C3	6316Z/C3
444TSD		9	16.5	14.5	.81	7.5	22.05	19.06	42.09	11	1.38	4.33	5.31	23.23	25.76	18	20	22	1	.81	4.75	.25	.625	.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.5	6316Z/C3	6316Z/C3
445TD		9	16.5	14.5	.81	7.5	22.05	19.06	45.84	11	1.38	4.33	5.31	23.23	25.76	18	20	22	1	.81	8.5	.25	.875	.875	6.91	2.88	4.65	20.91	16.46	8.5	3.375	8.25	6318Z/C3	6316Z/C3
445TSD		9	16.5	14.5	.81	7.5	22.05	19.06	42.09	11	1.38	4.33	5.31	23.23	25.76	18	20	22	1	.81	4.75	.25	.625	.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.5	6316Z/C3	6316Z/C3
447TD	6	9	25	20	.81	7.5	22.05	27.95	54.35	11	1.38	4.33	8.07	23.23	25.76	18	20	22	1	.81	8.5	.25	.875	.875	6.91	2.88	4.65	20.91	16.46	8.5	3.375	8.25	6320Z/C3	6316Z/C3
447TSD		9	25	20	.81	7.5	22.05	27.95	50.6	11	1.38	4.33	8.07	23.23	25.76	18	20	22	1	.81	4.75	.25	.625	.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.5	6316Z/C3	6316Z/C3
449TD		9	25	20	.81	7.5	22.05	27.95	54.35	11	1.38	4.33	8.07	23.23	25.76	18	20	22	1	.81	8.5	.25	.875	.875	6.91	2.88	4.65	20.91	16.46	8.5	3.375	8.25	6320Z/C3	6316Z/C3
449TSD		9	25	20	.81	7.5	22.05	27.95	50.6	11	1.38	4.33	8.07	23.23	25.76	18	20	22	1	.81	4.75	.25	.625	.625	3.03	2.021	4.65	20.91	16.46	4.75	2.375	4.5	6316Z/C3	6316Z/C3

Tolerance on dimension D : +0.00 inch, -0.06 inch  
 Tolerance on dimension R : +0.00 inch, -0.015 inch  
 Tolerance on dimension U : +0.00 inch, -0.001 inch for frame 364T-449T  
 Tolerance on dimension AK : +0.00 inch, -0.005 inch for frame 364T-449T  
 Dimension V is length of straight part of shaft.

The conduit box can be rotated in 90° increments so that conduit can be received from any direction. Conduit box can be located on either side of motor.

## Severe Duty Premium 60N Series – 1-250 HP

Performance Data

HP	RPM	Frame	Torque			FLA			LRA		Efficiency			Power Factor			NEMA Design	Code	SF	WK <sup>2</sup> lb ft <sup>2</sup>	lbs
			FLT lb-ft	LRT %	BDT %	460V	575V	208V	460V	575V	FL	75%	50%	FL	75%	50%					
1	1765	143T	3	300	320	1.4	1.1	3.1	12.9	10.3	85.5	84.5	81.3	78	70	57	B	M	1.4	0.09	53
	1160	145T	4.5	240	300	1.7	1.4	3.8	10	8	82.5	81.9	78.6	68	59	46	B	K	1.4	0.15	55
	3540	143T	2.2	350	410	2.1	1.7	4.6	20	16	84.5	83.2	79.8	78	69	57	B	M	1.4	0.07	56
1.5	1750	145T	4.5	300	400	2	1.6	4.4	16.6	13.3	87	86.8	85	79	72	59	B	K	1.4	0.1	57
	1170	182T	6.7	190	280	2.4	1.9	5.3	14	11.2	87.5	86.9	84.5	68	59	47	B	J	1.4	0.4	85
2	3525	145T	3	360	400	2.7	2.2	6.0	25.4	20.3	86	85.7	83.3	82	75	62	B	L	1.4	0.08	57
	1745	145T	6	260	340	2.6	2.1	5.8	19.2	15.4	86.5	87.1	85.8	83	77	64	B	J	1.4	0.13	59
	1170	184T	9	200	300	3	2.4	6.6	25	20	88.5	88.6	86.9	72	64	51	B	L	1.4	0.45	98
3	3500	182T	4.5	310	320	4	3.2	8.8	32	25.6	86.5	86.4	84.4	82	76	65	B	K	1.4	0.12	76
	1775	182T	8.9	320	400	4.2	3.4	9.3	38	30.4	89.5	88.5	85.8	75	67	54	A	M	1.4	0.27	102
	1165	213T	13.5	260	360	4.2	3.4	9.3	32	25.6	89.5	89.5	88	74	68	56	B	K	1.4	1.45	205
5	3535	184T	7.4	450	530	6.2	5.0	13.7	73	58.4	89	88.6	86.7	85	80	68	A	N	1.4	0.2	102
	1770	184T	14.8	300	380	6.7	5.4	14.8	61	48.8	89.5	89.2	87.6	78	71	58	A	L	1.3	0.34	108
	1170	215T	22.4	250	350	7	5.6	15.5	46	36.8	89.5	89.6	88.2	75	69	57	B	J	1.3	1.56	220
7.5	3525	213T	11.2	290	315	8.5	6.8	18.8	76	60.8	90	90	88.7	92	89	81	A	K	1.3	0.45	159
	1765	213T	22.3	240	290	9.3	7.4	20.6	71	56.8	91.7	91.6	90.5	82	78	67	A	J	1.3	0.87	167
	1185	254T	33.2	320	350	10.4	8.3	23.0	77.5	62	91	90.6	88.6	74	67	54	A	K	1.3	2.63	321
10	3535	215T	14.8	300	335	11.4	9.1	25.2	93	74.4	90.2	90.4	89.3	91	88	80	A	J	1.3	0.5	173
	1770	215T	29.6	230	280	12.5	10.0	27.6	87	69.6	91.7	91.7	90.4	82	77	66	A	H	1.3	0.99	185
	1180	256T	44.5	290	330	13.4	10.7	29.6	94	75.2	91	90.8	89.2	77	70	58	A	J	1.3	3.31	363
15	3540	254T	22.3	240	250	17.6	14.1	38.9	112	90	91.7	91.8	90.5	87	85	77	B	G	1.3	1.15	258
	1775	254T	44.3	380	440	17.3	13.8	38.3	168	134.4	92.4	92	90.7	88	84	76	A	K	1.3	2.89	301
	1185	284T	66.4	470	380	19.5	15.6	43.1	180	144	91.7	91.2	89	79	73	61	A	L	1.3	5.19	371
20	3540	256T	29.7	230	260	22.9	18.3	50.6	138	110	92	92.4	91.7	89	88	82	B	F	1.3	1.47	306
	1775	256T	59.1	380	450	22.9	18.3	50.6	230	184	93	92.7	91.4	88	84	76	A	L	1.2	3.57	390
	1185	286T	88.5	380	320	25.5	20.4	56.4	221	177	91.7	91.1	89.1	80	74	63	A	L	1.2	6.03	421
25	3555	284TS	36.9	260	300	29.5	23.6	65.2	205	164	92.4	92.4	91.3	86	82	74	A	H	1.2	1.72	348
	1780	284T	73.7	380	420	30.5	24.4	67.5	300	240	93.6	93.1	91.6	82	76	66	A	L	1.2	3.59	397
	1190	324T	110	230	240	31.5	25	69.7	182	146	93	93.3	92.4	80	75	65	B	G	1.3	12.9	653
30	3540	286TS	44.5	250	300	35.2	28.2	77.8	215	172	91.7	92	91.2	87	85	80	A	G	1.2	1.92	390
	1780	286T	88.4	370	390	37.5	30.0	82.9	350	280	93.6	93	91.3	80	73	61	A	L	1.2	3.84	441
	1190	326T	132	230	240	37	30	81.8	217	174	93	93.3	92.6	82	78	69	B	G	1.3	14.7	681
40	3552	324TS	59	145	200	44	35	97.3	290	232	93	93.6	93.3	92	91	88	B	G	1.2	4	608
	1780	324T	118	240	270	45	36	99.5	290	232	94.1	94.7	94.3	88	86	78	B	G	1.3	9.3	690
	1192	364T	176	180	210	48.5	39	107.3	290	232	94.1	94.2	93.5	82	78	68	B	G	1.3	23.1	917
50	3552	326TS	74	145	200	55	44	121.6	362	290	93	93.7	93.5	92	92	89	B	G	1.2	4.7	655
	1781	326T	148	250	270	56	45	123.8	362	290	94.5	95.1	94.9	88	85	78	B	G	1.3	11.6	769
	1191	365T	221	170	200	60	48	132.7	362	290	94.1	94.3	93.7	83	80	71	B	G	1.3	25.9	970
60	3562	364TS	88.5	125	200	65	52	143.8	435	348	93.6	94.1	93.8	92	91	87	B	G	1.2	6.5	860
	1786	364T	177	140	200	67	54	148.2	435	348	95	95.6	95.3	88	87	80	B	G	1.2	15.5	926
	1192	404T	264	180	200	72	58	159.2	435	348	94.5	94.4	93.7	82	78	68	B	G	1.3	36.8	1127
75	3560	365TS	111	120	200	81	65	179.1	542	434	94.1	94.8	94.7	92	91	89	B	G	1.2	7.9	933
	1787	365T	221	150	210	84	67	185.8	542	434	95.4	95.8	95.5	88	86	80	B	G	1.2	17.8	1012
	1191	405T	331	140	200	91	73	201.3	542	434	94.5	94.9	94.4	82	79	70	B	G	1.2	41.9	1210
100	3565	405TS	147	170	240	109	87	241.1	725	580	95.4	95.6	95.3	90	88	83	B	G	1.2	10	1058
	1785	405T	294	220	230	108	86	238.8	790	632	95.4	95.9	95.7	91	89	84	B	G	1.2	29.8	1241
	1192	444T	441	190	200	123	98	272.0	725	580	95	94.9	93.9	80	75	65	B	G	1.2	64.1	1726
125	3578	444TS	184	140	260	133	106	—	950	760	95.4	95.7	95.5	92	90	86	B	G	1.2	22.5	1488
	1788	444T	367	175	210	136	109	—	907	726	95.8	96.2	96.1	90	89	85	B	G	1.2	42.9	1662
	1192	445T	551	190	200	153	122	—	910	728	95.4	95.6	95.3	80	77	67	B	G	1.2	76.3	1931
150	3578	445TS	220	160	270	159	127	—	1180	944	95.8	96.1	96	92	91	86	B	G	1.2	28.4	1594
	1788	445T	441	180	200	161	129	—	1085	868	95.8	96.2	96.1	91	90	86	B	G	1.2	52.7	1823
200	3578	447TS	294	150	250	210	168	—	1500	1200	95.8	96.2	96.1	93	92	88	B	G	1.2	29.1	2161
	1790	447T	587	170	200	218	174	—	1550	1240	96.5	96.7	96.2	89	87	81	B	G	1.2	68	2310
250	3579	447TS	367	180	270	261	209	—	1900	1520	96.2	96.6	96.5	93	92	89	B	G	1.2	36.9	2271
	1788	447T	735	160	200	267	214	—	1825	1460	96.2	96.6	96.5	91	9	85	B	G	1.2	81.5	2447

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rollled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

General Information

### Severe Duty Premium 60N Series – 143T-286TS Footed

#### Mounting Dimensions

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

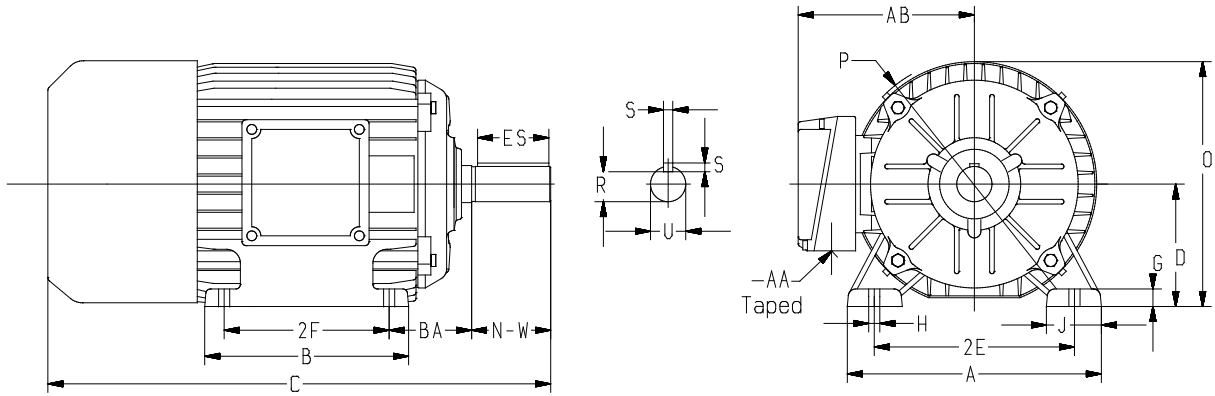
Pump Motors

Brake Motors

Parts and Accessories

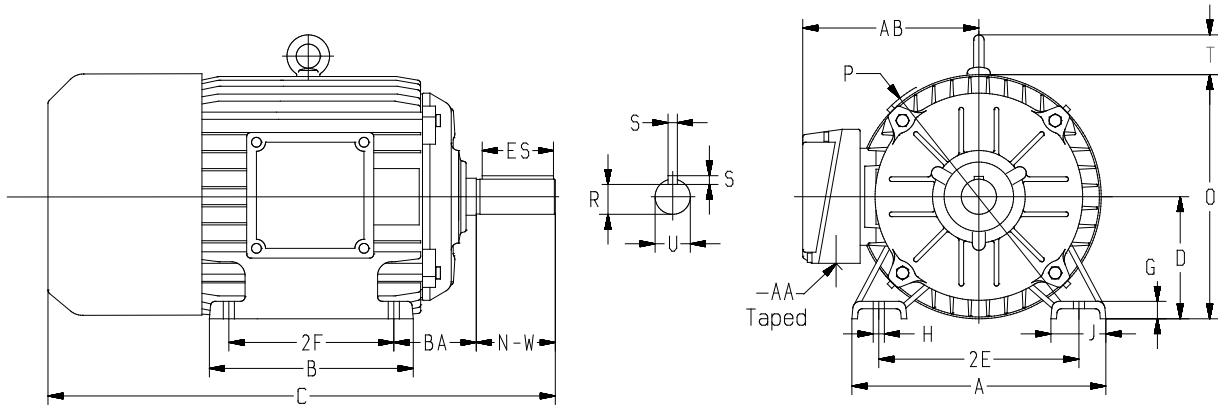
Technical Data

#### 143T-145T



Frame	# of Poles	Mounting Dimensions											Overall Dimensions								
		A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	AB	Bearings
143T	2,4,6	6.62	5.83	3.5	5.5	4	0.34	0.771	0.875	2.25	3/4	2.25	1.52	14.2	0.39	1.66	7.48	8.27	0.188	6.5	6205 2Z
145T	2,4,6	6.62	7	3.5	5.5	5	0.34	0.771	0.875	2.25	3/4	2.25	1.52	15.15	0.39	1.66	7.48	8.27	0.188	6.5	6205 2Z

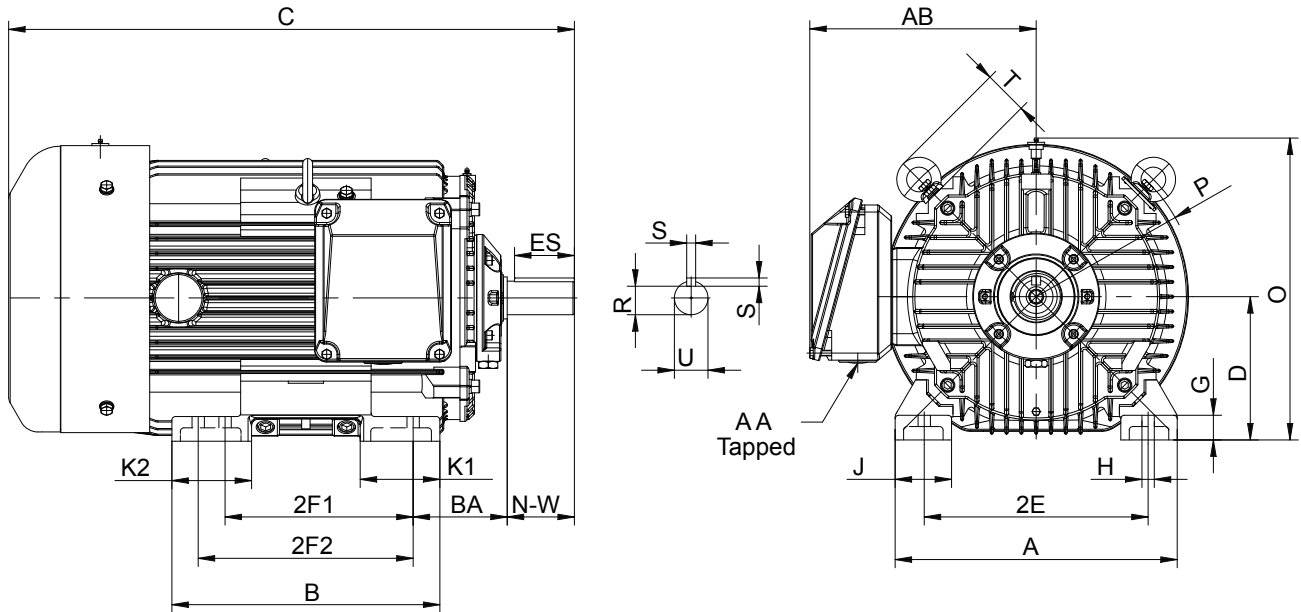
#### 182T-286TS



Frame	# of Poles	Mounting Dimensions											Overall Dimensions									
		A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	T	AB	Bearings
182T	2,4,6	9	8.31	4.5	7.5	4.5	0.41	0.986	1.125	2.75	1	2.75	1.94	17.7	0.6	2.13	9.09	9.53	0.25	1.77	7.9	6306 2Z
184T	2,4,6	9	8.31	4.5	7.5	5.5	0.41	0.986	1.125	2.75	1	2.75	1.94	17.7	0.6	2.13	9.09	9.53	0.25	1.77	7.9	6306 2Z
213T	2,4,6	10.24	8.7	5.25	8.5	5.5	0.41	1.201	1.375	3.38	1	3.5	2.55	22.25	0.67	2.2	10.96	11.61	0.312	2.08	8.92	6308/6 2Z
215T	2,4,6	10.24	10.28	5.25	8.5	7	0.41	1.201	1.375	3.38	1	3.5	2.55	22.88	0.67	2.2	10.96	11.61	0.312	2.08	8.92	6308/6 2Z
254T	2,4,6	12.28	9.92	6.25	10	8.25	0.55	1.416	1.625	4	1 1/4	4.25	3.11	25.83	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
256T	2,4,6	12.28	11.65	6.25	10	10	0.55	1.416	1.625	4	1 1/4	4.25	3.11	27.6	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
284T	4,6	13.78	13.11	7	11	9.5	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	31.16	0.89	2.75	14.01	14.17	0.5	2.08	10.34	6311 2Z
284TS	2	13.78	13.11	7	11	9.5	0.55	1.416	1.625	3.25	1 1/2	4.75	2.1	27.2	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z
286T	4,6	13.78	13.11	7	11	11	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	31.16	0.89	2.75	14.01	14.17	0.5	2.08	10.34	6311 2Z
286TS	2	13.78	13.11	7	11	11	0.55	1.416	1.625	3.25	1 1/2	4.75	2.1	27.2	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z



## Severe Duty Premium 60N Series – 324TS-447T Footed Mounting Dimensions



Frame	# of Poles	Mounting Dimensions											Overall Dimensions													
		D	2E	2F1	2F2	G	H	Shaft End				R	S	U	A	AA	AB	B	C	J	K1	K2	O	P	T	Bearings
								BA	ES	N-W	AA Tapped															
324TS	2	8	12.5	10.5	12	1.38	0.66	5.25	2.75	3.75	1.591	0.5	1.875	15.8	2	13	15	31.6	3.15	4.45	4.45	16.9	17.9	2.5	6312C3	
324T	4,6	8	12.5	10.5	12	1.38	0.66	5.25	4.33	5.25	1.845	0.5	2.125	15.8	2	13	15	33.1	3.15	4.45	4.45	16.9	17.9	2.5	6312C3	
326TS	2	8	12.5	10.5	12	1.38	0.66	5.25	2.75	3.75	1.591	0.5	1.875	15.8	2	13	15	31.6	3.15	4.45	4.45	16.9	17.9	2.5	6312C3	
326T	4,6	8	12.5	10.5	12	1.38	0.66	5.25	4.33	5.25	1.845	0.5	2.125	15.8	2	13	15	33.1	3.15	4.45	4.45	16.9	17.9	2.5	6312C3	
364TS	2	9	14	11.25	12.25	1.49	0.66	5.88	2.75	3.75	1.591	0.5	1.875	17.5	3	14.2	15	33.6	3.35	4.53	4.53	18.8	19.9	2.5	6313C3	
364T	4,6	9	14	11.25	12.25	1.49	0.66	5.88	4.92	5.88	2.021	0.625	2.375	17.5	3	14.2	15	35.7	3.35	4.53	4.53	18.8	19.9	2.5	6313C3	
365TS	2	9	14	11.25	12.25	1.49	0.66	5.88	2.75	3.75	1.591	0.5	1.875	17.5	3	14.2	15	33.6	3.35	4.53	4.53	18.8	19.9	2.5	6313C3	
365T	4,6	9	14	11.25	12.25	1.49	0.66	5.88	4.92	5.88	2.021	0.625	2.375	17.5	3	14.2	15	35.7	3.35	4.53	4.53	18.8	19.9	2.5	6313C3	
404T	6	10	16	12.25	13.75	1.57	0.81	6.62	6.3	7.25	2.45	0.75	2.875	18.9	3	15.5	17.6	40.4	3.54	5.32	5.32	20.8	21.3	2.95	6315C3	
405TS	2	10	16	12.25	13.75	1.57	0.81	6.62	3.5	4.25	1.845	0.5	2.125	18.9	3	15.5	17.6	37.4	3.54	5.32	5.32	20.8	21.3	2.95	6315C3	
405T	4,6	10	16	12.25	13.75	1.57	0.81	6.62	6.3	7.25	2.45	0.75	2.875	18.9	3	15.5	17.6	40.4	3.54	5.32	5.32	20.8	21.3	2.95	6315C3	
444TS	2	11	18	14.5	16.5	1.57	0.81	7.5	4.3	4.75	2.021	0.625	2.375	21.7	2x3	17.6	20.5	42	4.15	5.12	6.5	23.4	24.4	3.75	6315C3	
444T	4,6	11	18	14.5	16.5	1.57	0.81	7.5	7.9	8.5	2.88	0.875	3.375	21.7	2x3	17.6	20.5	45.7	4.15	5.12	6.5	23.4	24.4	3.75	6318C3	
445TS	2	11	18	14.5	16.5	1.57	0.81	7.5	4.3	4.75	2.021	0.625	2.375	21.7	2x3	17.6	20.5	42	4.15	5.12	6.5	23.4	24.4	3.75	6315C3	
445T	4,6	11	18	14.5	16.5	1.57	0.81	7.5	7.9	8.5	2.88	0.875	3.375	21.7	2x3	17.6	20.5	45.7	4.15	5.12	6.5	23.4	24.4	3.75	6318C3	
447TS	2	11	18	20	-	1.654	0.81	7.5	4.3	4.75	2.021	0.625	2.375	22.1	2x3	19.5	24	46.3	4.18	6.8	6.8	23.4	24.4	3.75	6315C3	
447T	4,6	11	18	20	-	1.654	0.81	7.5	7.9	8.5	2.88	0.875	3.375	22.1	2x3	19.5	24	50	4.18	6.8	6.8	23.4	24.4	3.75	6318C3	

General Information

### Severe Duty Premium 60N Series – 143TC-286TSC C-Face Mounting Dimensions

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

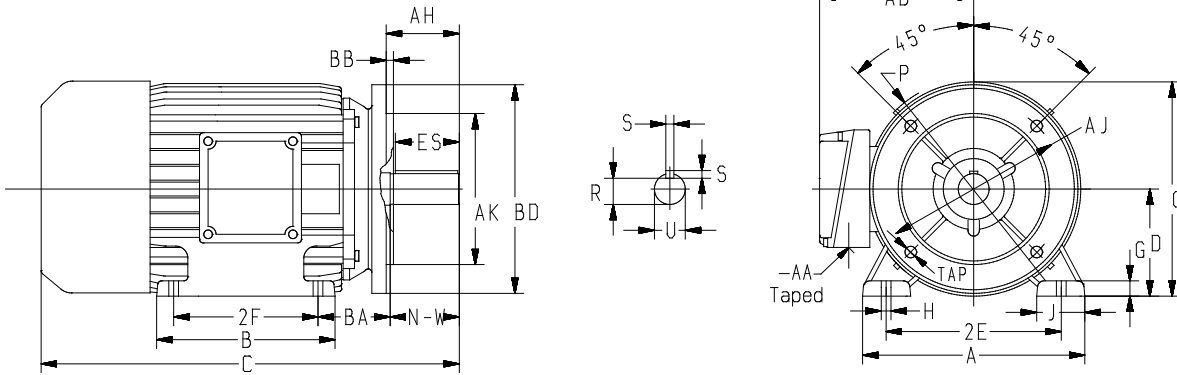
Pump Motors

Brake Motors

Parts and Accessories

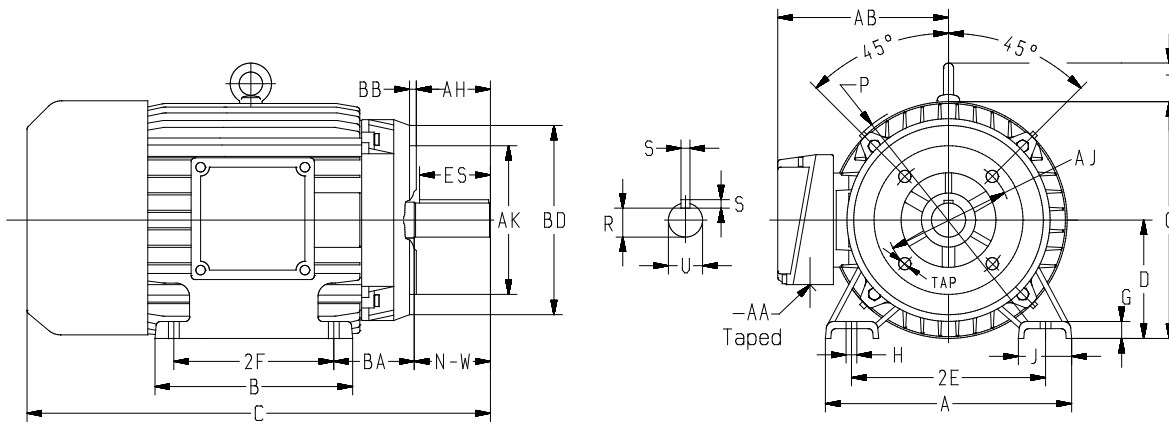
Technical Data

#### 143TC-145TC



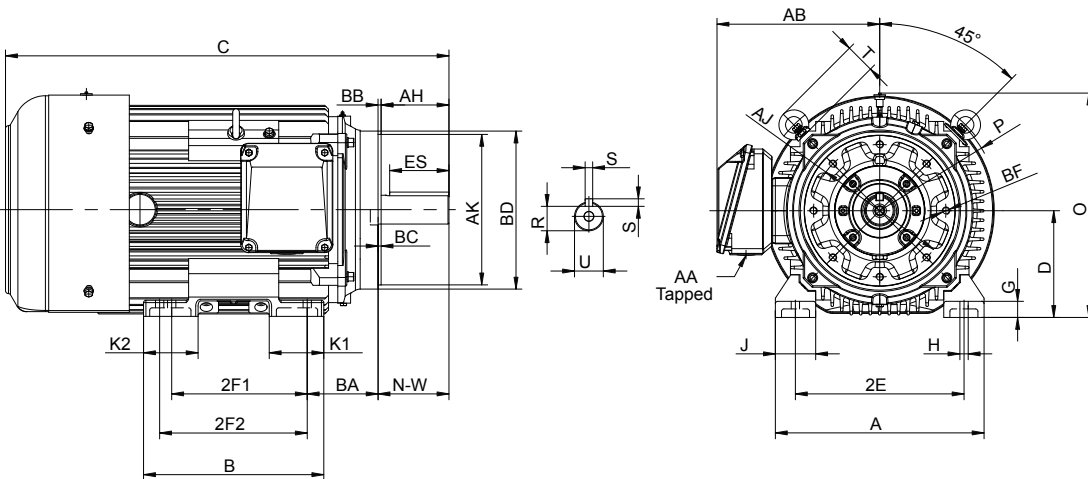
Frame	# of Poles	Mounting Dimensions														Overall Dimensions											
		A	B	D	2E	2F	H	R	S	U	AH	AJ	AK	BA	BB	BD	ES	C	G	J	O	P	N-W	AA	AB	Tap	Bearings
143TC	2,4,6	6.62	5.83	3.5	5.5	4	0.34	0.771	0.188	0.875	2.12	5.875	4.5	2.25	0.16	6.5	1.52	14.2	0.39	1.66	7.48	8.27	2.25	3/4	6.5	3/8/16	6205 2Z
145TC	2,4,6	6.62	7	3.5	5.5	5	0.34	0.771	0.188	0.875	2.12	5.875	4.5	2.25	0.16	6.5	1.52	15.15	0.39	1.66	7.48	8.27	2.25	3/4	6.5	3/8/16	6205 2Z

#### 182TC-286TSC



Frame	# of Poles	Mounting Dimensions														Overall Dimensions												
		A	B	D	2E	2F	H	R	S	U	AH	AJ	AK	BA	BB	BD	ES	C	G	J	O	P	T	N-W	AA	AB	Tap	Bearings
182TC	2,4,6	9	8.31	4.5	7.5	4.5	0.41	0.986	0.25	1.125	2.62	7.25	8.5	2.75	0.25	8.9	1.94	17.7	0.6	2.13	9.09	9.53	1.77	2.75	1	7.9	1/2/13	6306 2Z
184TC	2,4,6	9	8.31	4.5	7.5	5.5	0.41	0.986	0.25	1.125	2.62	7.25	8.5	2.75	0.25	8.9	1.94	17.7	0.6	2.13	9.09	9.53	1.77	2.75	1	7.9	1/2/13	6306 2Z
213TC	2,4,6	10.24	8.7	5.25	8.5	5.5	0.41	1.201	0.312	1.375	3.13	7.25	8.5	3.5	0.25	8.9	2.55	22.25	0.67	2.2	10.96	11.61	2.08	3.38	1	8.92	1/2/13	6308/6 2Z
215TC	2,4,6	10.24	10.28	5.25	8.5	7	0.41	1.201	0.312	1.375	3.13	7.25	8.5	3.5	0.25	8.9	2.55	22.88	0.67	2.2	10.96	11.61	2.08	3.38	1	8.92	1/2/13	6308/6 2Z
254TC	2,4,6	12.28	9.92	6.25	10	8.25	0.55	1.416	0.375	1.625	3.75	7.25	8.5	4.25	0.25	10	3.11	25.83	0.58	2.36	13.18	14.17	2.08	4	1 1/4	10.08	1/2/13	6309 2Z
256TC	2,4,6	12.28	11.65	6.25	10	10	0.55	1.416	0.375	1.625	3.75	7.25	8.5	4.25	0.25	10	3.11	27.6	0.58	2.36	13.18	14.17	2.08	4	1 1/4	10.08	1/2/13	6309 2Z
284TC	4,6	13.78	13.11	7	11	9.5	0.55	1.591	0.5	1.875	4.38	9	10.5	4.75	0.25	11.25	3.53	31.16	0.89	2.75	14.01	14.17	2.08	4.62	1 1/2	10.34	1/2/13	6311 2Z
284TSC	2	13.78	13.11	7	11	9.5	0.55	1.416	0.375	1.625	3	9	10.5	4.75	0.25	11.25	2.1	27.2	0.89	2.75	14.01	14.17	2.08	3.25	1 1/2	10.34	1/2/13	6311 2Z
286TC	4,6	13.78	13.11	7	11	11	0.55	1.591	0.5	1.875	4.38	9	10.5	4.75	0.25	11.25	3.53	31.16	0.89	2.75	14.01	14.17	2.08	4.62	1 1/2	10.34	1/2/13	6311 2Z
286TSC	2	13.78	13.11	7	11	11	0.55	1.416	0.375	1.625	3	9	10.5	4.75	0.25	11.25	2.1	27.2	0.89	2.75	14.01	14.17	2.08	3.25	1 1/2	10.34	1/2/13	6311 2Z

## Severe Duty Premium 60N Series – 324TSC-447TC C-Face Mounting Dimensions



Frame	# of Poles	Mounting Dimensions																	
		D	2E	2F1	2F2	G	H	Shaft End					C-Face						
								BA	ES	N-W	R	S	U	AH	AJ	AK	BB/BC	BF	
																		Size	#
324TSC	2	8	12.5	10.5	12	1.38	0.66	5.25	2.75	3.75	1.591	0.5	1.875	3.5	11.0	12.5	0.25	5/8/11	4
324TC	4,6	8	12.5	10.5	12	1.38	0.66	5.25	4.33	5.25	1.845	0.5	2.125	5.0	11.0	12.5	0.25	5/8/11	4
326TSC	2	8	12.5	10.5	12	1.38	0.66	5.25	2.75	3.75	1.591	0.5	1.875	3.5	11.0	12.5	0.25	5/8/11	4
326TC	4,6	8	12.5	10.5	12	1.38	0.66	5.25	4.33	5.25	1.845	0.5	2.125	5.0	11.0	12.5	0.25	5/8/11	4
364TSC	2	9	14	11.25	12.25	1.49	0.66	5.88	2.75	3.75	1.591	0.5	1.875	3.5	11.0	12.5	0.25	5/8/11	8
364TC	4,6	9	14	11.25	12.25	1.49	0.66	5.88	4.92	5.88	2.021	0.625	2.375	5.63	11.0	12.5	0.25	5/8/11	8
365TSC	2	9	14	11.25	12.25	1.49	0.66	5.88	2.75	3.75	1.591	0.5	1.875	3.5	11.0	12.5	0.25	5/8/11	8
365TC	4,6	9	14	11.25	12.25	1.49	0.66	5.88	4.92	5.88	2.021	0.625	2.375	5.63	11.0	12.5	0.25	5/8/11	8
404TC	6	10	16	12.25	13.75	1.57	0.81	6.62	6.3	7.25	2.45	0.75	2.875	7.0	11.0	12.5	0.25	5/8/11	8
405TSC	2	10	16	12.25	13.75	1.57	0.81	6.62	3.5	4.25	1.845	0.5	2.125	4.0	11.0	12.5	0.25	5/8/11	8
405TC	4,6	10	16	12.25	13.75	1.57	0.81	6.62	6.3	7.25	2.45	0.75	2.875	7.0	11.0	12.5	0.25	5/8/11	8
444TSC	2	11	18	14.5	16.5	1.57	0.81	7.5	4.3	4.75	2.021	0.625	2.375	4.5	14.0	16.0	0.25	5/8/11	8
444TC	4,6	11	18	14.5	16.5	1.57	0.81	7.5	7.9	8.5	2.88	0.875	3.375	8.25	14.0	16.0	0.25	5/8/11	8
445TSC	2	11	18	14.5	16.5	1.57	0.81	7.5	4.3	4.75	2.021	0.625	2.375	4.5	14.0	16.0	0.25	5/8/11	8
445TC	4,6	11	18	14.5	16.5	1.57	0.81	7.5	7.9	8.5	2.88	0.875	3.375	8.25	14.0	16.0	0.25	5/8/11	8
447TSC	2	11	18	20	–	1.654	0.81	7.5	4.3	4.75	2.021	0.625	2.375	4.5	14.0	16.0	0.25	5/8/11	8
447TC	4,6	11	18	20	–	1.654	0.81	7.5	7.9	8.5	2.88	0.875	3.375	8.25	14.0	16.0	0.25	5/8/11	8

Frame	# of Poles	Overall Dimensions											
		A	AA	AB	B	BD	C	J	K1	K2	O	P	T
324TSC	2	15.8	2	13	15	13.0	31.6	3.15	4.45	4.45	16.9	17.9	2.5
324TC	4,6	15.8	2	13	15	13.0	33.1	3.15	4.45	4.45	16.9	17.9	2.5
326TSC	2	15.8	2	13	15	13.0	31.6	3.15	4.45	4.45	16.9	17.9	2.5
326TC	4,6	15.8	2	13	15	13.0	33.1	3.15	4.45	4.45	16.9	17.9	2.5
364TSC	2	17.5	3	14.2	15	13.2	33.6	3.35	4.53	4.53	18.8	19.9	2.5
364TC	4,6	17.5	3	14.2	15	13.2	35.7	3.35	4.53	4.53	18.8	19.9	2.5
365TSC	2	17.5	3	14.2	15	13.2	33.6	3.35	4.53	4.53	18.8	19.9	2.5
365TC	4,6	17.5	3	14.2	15	13.2	35.7	3.35	4.53	4.53	18.8	19.9	2.5
404TC	6	18.9	3	15.5	17.6	13.2	40.4	3.55	5.32	5.32	20.8	21.3	2.95
405TSC	2	18.9	3	15.5	17.6	13.2	37.4	3.55	5.32	5.32	20.8	21.3	2.95
405TC	4,6	18.9	3	15.5	17.6	13.2	40.4	3.55	5.32	5.32	20.8	21.3	2.95
444TSC	2	21.7	2x3	17.6	20.5	16.6	42	4.15	5.12	6.5	23.4	24.4	3.75
444TC	4,6	21.7	2x3	17.6	20.5	16.6	45.7	4.15	5.12	6.5	23.4	24.4	3.75
445TSC	2	21.7	2x3	17.6	20.5	16.6	42	4.15	5.12	6.5	23.4	24.4	3.75
445TC	4,6	21.7	2x3	17.6	20.5	16.6	45.7	4.15	5.12	6.5	23.4	24.4	3.75
447TSC	2	22.1	2x3	19.5	24	16.6	46.3	4.18	6.8	6.8	23.4	24.4	3.75
447TC	4,6	22.1	2x3	19.5	24	16.6	50	4.18	6.8	6.8	23.4	24.4	3.75

General Information

### METRIC IEC 40M Series – 0.08-1.5 HP (0.06-1.1 kW)

Performance Data

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

#### 50 Hz Performance Data

HP	RPM	Frame	kW	Torque			FLA			LRA	Efficiency			Power Factor	WK <sup>2</sup> kgm <sup>2</sup>	Wt kg
				FLT Nm	LRT %	BDT %	230V	380V	400V		%	FL	75%			
0.08	1400	Sg 56-4A	0.06	0.409	180	200	0.43	0.25	0.25	330	55	52	44	66	0.00015	2.7
	2800	Sg 56-2A		0.307	210	210	0.56	0.32	0.32		450	58	50			
0.12	1380	Sg 56-4B	0.09	0.623	200	190	0.59	0.34	0.34	320	61	58	54	65	0.00019	2.9
	2800	Sg 56-2B		0.409	180	210	0.6	0.35	0.35		480	63	58			
0.17	1380	Sg 63-4A	0.12	0.83	200	200	0.7	0.4	0.4	320	64	60	56	72	0.00024	3.6
	2760	Sg 63-2A		0.623	190	190	0.95	0.55	0.55		380	65	63			
0.25	1380	Sg 63-4B	0.18	1.246	200	200	1.1	0.65	0.65	320	64	62	60	70	0.00031	4.2
	890	Sh 71-6A		1.93	190	190	1.3	0.75	0.75		260	57	54			
0.33	2760	Sg 63-2B	0.25	0.865	200	200	1.1	0.65	0.65	400	68	65	62	83	0.000235	4.2
	1380	Sh 71-4A		1.73	200	200	1.5	0.85	0.85		300	66	63			
0.5	860	Sh 71-6B	0.37	2.78	160	160	1.75	1	1	230	55	52	45	79	0.00095	5.8
	2800	Sh 71-2A		1.262	220	220	1.73	1	1		440	71	69			
0.75	1360	Sh 71-4B	0.55	2.598	210	200	2.1	1.2	1.2	310	68	65	62	72	0.00077	5.9
	910	Sh 80-6A		3.88	200	210	2.4	1.4	1.4		300	64	63			
1	2790	Sh 71-2B	0.75	1.883	200	210	2.35	1.35	1.35	400	75	72	69	82	0.000484	6
	1400	Sh 80-4A		3.75	210	210	2.95	1.7	1.7		360	70	68			
1.5	900	Sh 80-6B	1.1	5.84	190	200	3.1	1.8	1.8	270	67	65	62	70	0.00207	8.6
	2800	Sh 80-2A		2.56	270	260	3.3	1.9	1.9		450	74	72			
	1390	Sh 80-4B		5.15	210	210	3.5	2	2	400	75	73	67	73	0.0019	8.8
	2780	Sg 80-2B		3.78	260	260	4.3	2.5	2.5	510	77	75	69	84	0.001005	9.1

#### 60 Hz Performance Data

HP	RPM	Frame	kW	Torque			FLA			LRA	Efficiency			Power Factor	WK <sup>2</sup> lb ft <sup>2</sup>	Wt lbs
				FLT lb ft	LRT %	BDT %	230V	460V	575V		%	FL	75%			
0.08	1680	Sg 56-4A	0.06	0.25	210	220	0.44	0.22	0.18	330	55	52	44	66	0.0036	5.9
	3360	Sg 56-2A		0.19	220	220	0.56	0.28	0.22		450	58	50			
0.12	1660	Sg 56-4B	0.09	0.38	210	200	0.6	0.3	0.24	320	61	58	54	65	0.0045	6.4
	3360	Sg 56-2B		0.27	200	220	0.6	0.3	0.24		480	63	58			
0.17	1660	Sg 63-4A	0.12	0.54	210	210	0.7	0.35	0.28	320	64	60	56	72	0.0057	7.9
	3310	Sg 63-2A		0.4	200	200	1	0.5	0.4		380	65	63			
0.25	1660	Sg 63-4B	0.18	0.79	210	210	1.1	0.55	0.44	320	64	62	60	70	0.0074	9.3
	1070	Sh 71-6A		1.23	200	200	1.4	0.7	0.56		260	57	54			
0.33	3310	Sg 63-2B	0.25	0.52	210	210	1.1	0.55	0.44	400	68	65	62	83	0.0056	9.3
	1660	Sh 71-4A		1.04	210	210	1.4	0.7	0.56		300	66	63			
0.5	1030	Sh 71-6B	0.37	1.63	200	200	1.8	0.9	0.72	230	55	52	45	70	0.0225	12.8
	3360	Sh 71-2A		0.78	200	210	1.8	0.9	0.72		440	71	69			
0.75	1630	Sh 71-4B	0.55	1.6	220	220	2	1	0.8	310	68	65	62	68	0.0183	13
	1090	Sh 80-6A		2.43	200	220	2.4	1.2	0.96		300	64	63			
1	3350	Sh 71-2B	0.75	1.18	210	220	2.4	1.2	0.96	400	75	72	69	85	0.0115	13.2
	1680	Sh 80-4A		2.34	220	220	3	1.5	1.2		360	70	68			
1.5	1080	Sh 80-6B	1.1	3.65	200	210	3.2	1.6	1.28	270	67	65	62	72	0.0491	19
	3360	Sh 80-2A		1.56	280	270	3.2	1.6	1.28		450	74	72			
	1670	Sh 80-4B		3.14	220	220	3.4	1.7	1.36	400	75	73	67	73	0.0451	19.4
	3340	Sg 80-2B		2.36	270	270	4.4	2.2	1.76	510	77	75	69	84	0.0238	20.1

# METRIC IEC 20M Series (without "P" Suffix) – 1-220 HP (1.5-160 kW)

Performance Data

## 50 Hz Performance Data

HP	RPM	Frame	kW	Torque			FLA			LRA	Efficiency			Power Factor	Design	WK <sup>2</sup> kgm <sup>2</sup>	Wt kg
				FLT Nm	LRT %	BDT %	230V	380V	400V		%	FL	75%				
1	925	90S	.75	6.2	220	260	3.5	2.2	2	420	75.9	76.1	75.5	70	H	0.0025	16.5
1.5	1425	90S	1.1	6.2	240	280	4.5	2.8	2.6	510	81.4	81.9	81.1	76	H	0.0029	16.3
2	2880	90S	1.5	5	330	340	5.7	3.5	3.3	760	81.8	82	80	81	N	0.0014	13.9
	1425	90L		10	280	330	6	3.6	3.4	710	82.8	83.2	81.2	76	H	0.0036	19
3	2870	90L	2.2	7.3	370	370	8.2	4.9	4.7	730	83.5	84.4	83.4	81	N	0.0016	17.3
	1440	100L		14.8	240	280	7.9	4.7	4.5	810	84.7	85.5	84.6	83	H	0.007	26
	955	112M		22.4	230	270	8.9	5.4	5.1	700	82.3	83.1	82	75	H	0.0177	32
4	2915	100L	3	9.8	310	330	10.7	6.5	6.2	830	84.6	84.7	82.8	83	N	0.0039	26.7
	1445	100L		19.7	340	360	11.5	6.9	6.6	960	86	86.1	84.3	76	H	0.0077	30
	950	132S		30.2	200	270	11.4	6.9	6.6	550	83.3	84.3	83.1	79	H	0.025	54
5.5	2915	112M	4	13.1	240	270	13.4	8.1	7.7	850	86.3	87.3	86.9	87	N	0.006	33.5
	1450	112M		27	200	290	14.6	8.8	8.4	740	87	87.7	86.9	79	H	0.0115	36
	950	132M		40.2	220	280	14.7	8.8	8.4	630	84.6	85.6	84.9	81	H	0.032	66
7.5	2930	132S	5.5	17.9	270	340	17.5	10.6	10.1	880	87.5	89.2	88.5	90	N	0.014	59.5
	1460	132S		30	240	310	19.7	11.6	11.3	830	88	88.5	87.6	80	H	0.029	69
	950	132M		55.3	270	310	20.3	12.3	11.7	650	86	86.8	85.8	79	H	0.04	72
10	2920	132S	7.5	24.5	270	330	23.1	13.9	13.2	850	88.6	89.1	88.2	92	N	0.017	70.8
	1460	132M		48.8	240	330	26.5	16.1	15.3	860	88.7	89.2	88.5	80	H	0.036	74
	960	160M		74.2	230	310	26.6	16.1	15.3	770	87.4	88.5	88.2	81	H	0.072	100
15	2940	160M	11	35.7	200	270	35.3	21.4	20.3	720	90	90.3	89.4	87	N	0.042	96
	1470	160M		72.7	200	280	38	22.9	21.8	800	89.8	90.3	89.3	81	H	0.057	106
	960	160L		111.3	250	310	38	22.9	21.8	820	88.7	89.6	89.3	82	H	0.096	125
20	2935	160M	15	48.8	200	280	46.9	28.3	26.9	700	90.3	91	90.6	89	H	0.048	103
	1470	160L		96.9	210	300	51.3	31.1	29.5	820	90.6	91.3	90.7	81	N	0.07	126
	975	180L		146.1	280	240	51.2	30.9	29.4	720	89.7	90.1	89.1	82	H	0.22	170
25	2935	160L	18.5	60.2	230	290	55.8	33.8	32.1	770	91.5	92.3	92.2	91	N	0.059	118
	1470	180M		121.2	280	300	59.2	35.8	34	870	91.2	91.3	90.2	86	H	0.139	169
	990	200L		179.9	200	260	66	40	38	660	90.8	90.7	89.2	77	H	0.5	283
30	2945	180M	22	71.3	260	320	68.7	41.6	39.5	750	91.3	91.7	90.8	88	N	0.062	156
	1460	180L		146.4	280	290	70.1	42.4	40.3	850	91.6	92	91.4	86	H	0.144	180
	990	200L		215.9	180	240	77	46	44	620	91	91.1	90	79	H	0.57	294
40	2952	200L	30	97	200	260	91	55	52	630	92.3	92.7	92	90	N	0.15	265
	1474	200L		193.3	190	230	93	56	54	630	92.4	93.1	93	87	H	0.31	285
	990	225M		287.9	190	230	101	61	58	650	91.9	92.4	91.7	81	H	0.82	379
50	2954	200L	37	120	180	250	110	66	63	600	92.7	93.5	93.6	91	N	0.18	283
	1484	225S		240	200	270	117	71	67	750	93.2	93.5	92.9	85	H	0.49	368
	989	250M		357	160	230	119	72	68	530	92.5	93	92.5	84	H	1.39	458
60	2967	225M	45	145	150	280	135	82	78	620	93.1	93.6	93.2	90	N	0.26	380
	1485	225M		287.9	210	280	144	87	83	770	93.6	93.8	93	84	H	0.55	395
	992	280S		433	170	230	152	92	87	560	93	93	92	80	H	1.9	682
75	2959	250M	55	177	180	230	163	98	94	570	93.3	93.9	93.8	91	N	0.42	492
	1479	250M		361.3	180	210	164	99	94	690	93.5	93.9	93	90	H	0.79	478
	992	280M		538.6	170	220	250	110	105	670	93.4	94.2	93.4	81	H	2.93	983
100	2978	280S	75	241	150	290	220	133	127	690	94.1	94.4	94	91	N	0.76	655
	1489	280S		478.5	200	250	225	136	129	760	94.2	94.6	94.1	89	H	1.37	678
	992	315S6		722	170	220	250	152	144	560	94	94.2	93.4	80	H	2.93	983
125	2972	280M	90	289	150	240	264	160	152	650	94.2	94.2	93.4	91	N	0.95	688
	1486	280M		599.3	170	220	272	165	157	760	94.3	94.7	94.5	88	H	1.5	700
	992	315M		897.7	160	200	288	174	165	700	94.2	94.5	93.8	83	H	3.4	1073
150	1489	315S	110	717.7	200	250	324	196	186	750	94.6	95.1	95	90	H	1.85	905
	992	315M		1077.3	170	210	352	213	203	730	94.4	94.7	94.1	83	H	4.21	1181
220	1487	315M	160	1028	180	210	465	281	267	570	95.0	95.8	96.0	91	H	2.59	1047

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### METRIC IEC 20M Series (without "P" Suffix) – 1-220 HP (1.5-160 kW) Performance Data

Premium Efficient Motors

#### 60 Hz Performance Data

HP	RPM	Frame	kW	Torque			FLA			LRA	Efficiency			Power Factor	Design	WK <sup>2</sup> lb ft <sup>2</sup>	Wt lbs
				FLT lb ft	LRT %	BDT %	230V	460V	575V		%	FL	75%				
1	1140	90S	.75	4.6	260	290	3.6	1.8	1.4	480	80	80.5	79.8	65	H	0.0593	37
1.5	1730	90S	1.1	4.6	290	320	4.6	2.3	1.8	650	84	84.3	82.3	72	H	0.0688	36
2	3490	90S	1.5	3	380	390	5.6	2.8	2.2	870	85.5	85.7	83.6	79	N	0.0332	31
	1735	90L		6.2	290	420	6	3	2.4	710	84	84.4	82.4	74	H	0.0854	42
3	3470	90L	2.2	4.5	410	410	8	4	3.2	830	86.5	87.4	86.4	80	N	0.0380	38
	1750	100L		8.9	280	330	8	4	3.2	810	87.5	88.3	87.4	79	H	0.1661	57
4	1170	112M	3	13.5	240	360	10.6	5.3	4.2	600	87.5	88.4	87.2	61	H	0.4200	71
	3530	100L		6	350	360	10.6	5.3	4.2	930	88.5	88.6	86.6	81	N	0.0925	59
5.5	1755	100L	4	12	380	390	11.6	5.8	4.6	840	87.5	87.6	85.8	74	H	0.1827	67
	1165	132S		18	280	370	11.4	5.7	4.6	780	87.5	88.5	87.3	76	H	0.5933	119
7.5	3525	112M	5.5	8	260	290	13.4	6.7	5.4	830	88.5	90	89.6	85	N	0.1424	74
	1760	112M		16.1	260	330	14.8	7.4	5.9	740	87.5	88.2	87.4	78	H	0.2729	79
10	1160	132M	7.5	24	290	350	15	7.5	6	750	87.5	88.5	87.8	76	H	0.7594	146
	3535	132S		11.1	320	490	17.6	8.8	7	1010	89.5	91.2	90.5	88	N	0.3322	132
15	1770	132S	11	22.2	280	340	19.6	9.8	7.8	920	89.5	90	89.3	79	H	0.6882	153
	1165	132M		33.8	300	380	22.4	11.2	9	840	89.5	90.3	89.3	77	H	0.9492	159
20	3530	132S	15	15	310	370	23	11.5	9.2	850	90.2	90.7	89.8	91	N	0.4034	156
	1770	132M		29.9	280	370	26.2	13.1	10.5	860	89.5	90	89.3	80	H	0.8543	163
25	1165	160M	18.5	45.4	440	330	26.2	13.1	10.5	770	89.5	90.6	90.3	80	H	1.7086	221
	3550	160M		22	240	300	35.2	17.6	14.1	830	91	91.3	90.4	86	N	0.9967	212
30	1765	160L	22	43.9	230	350	38	19	15.2	800	91	91.5	90.5	80	H	1.3526	234
	1165	160L		66.6	280	350	37.4	18.7	15	820	90.2	91.1	90.8	82	H	2.2781	276
40	3540	160M	30	29	230	300	46.4	23.2	18.6	820	91	91.7	91.3	89	H	1.1391	227
	1765	160L		59.9	260	380	51.8	25.9	20.7	820	91	91.7	91.1	80	N	1.6611	278
50	1175	180L	37	90	330	280	51.6	25.8	20.6	720	90.2	90.6	89.6	81	H	5.2207	375
	3540	160L		36	240	340	56.2	28.1	22.5	900	91.7	92.5	92.4	90	N	1.4001	260
60	1775	180M	45	73.4	320	400	59.2	29.6	23.7	870	92.4	92.5	91.4	85	H	3.2985	373
	1189	200L		109.2	240	260	62	31	24.8	670	91.7	91.9	90.4	81	H	11.8652	624
75	3550	180M	55	43	280	330	69.2	34.6	27.7	870	91.7	92.1	91.2	87	N	1.4713	345
	1770	180L		87.6	340	350	69.4	34.7	27.8	850	92.4	92.8	92.2	86	H	3.4172	397
100	1188	200L	75	129.9	240	250	74	37	29.6	660	91.7	92.2	91.1	82	H	13.5263	649
	3566	200L		59	290	320	90	45	36	850	92.4	92.8	92.1	90	N	3.5596	585
125	1776	200L	90	118.8	220	250	92	46	36.8	630	93	94.1	94	87	H	7.3564	629
	1190	225M		177.1	210	240	98	49	39.2	710	93	93.5	92.8	83	H	19.4589	836
150	3560	200L	110	73.7	220	280	112	56	44.8	760	93	93.6	93.7	89	N	4.2715	624
	1786	225S		147	260	320	116	58	46.4	850	93.6	94	93.4	86	H	11.6279	812
200	1193	250M	160	220	240	310	124	62	49.6	840	93	93.5	93	81	H	32.9852	1010
	3576	225M		88.1	250	320	138	69	55.2	810	93.6	94.1	93.7	87	N	6.1699	838
220	1785	225M	180	176.5	250	310	140	70	56	850	93.6	94.1	93.3	86	H	13.0517	871
	1193	280S		264	220	250	146	73	58.4	760	93.7	93.7	92.7	83	H	45.0877	1504
250	3571	250M	200	110.3	200	300	164	82	65.6	770	93.6	94.2	94.1	90	N	9.9668	1085
	1784	250M		220.7	220	270	164	82	65.6	640	94.1	94.1	93.2	90	H	18.7470	1054
300	1193	280M	225	324.6	240	260	182	91	72.8	800	93.6	95	94.2	81	H	69.5300	1639
	3581	280S		146.6	190	300	222	111	88.8	800	94.1	94.5	94.4	90	N	18.0351	1444
350	1789	280S	250	293.5	200	240	222	111	88.8	760	94.5	95.4	94.9	90	H	32.5106	1495
	1193	315S		440	260	280	246	123	98.4	600	94.5	94.6	93.9	81	H	69.5300	2168
400	3581	280M	275	183.2	190	300	264	132	105.6	800	95	95	94.2	90	N	22.5438	1517
	1790	280M		354.1	240	290	268	134	107.2	820	94.5	95.7	95.5	89	H	35.5955	1544
500	1194	315M	300	531.1	290	290	294	147	117.6	720	94.6	95	94.3	81	H	80.6832	2366
	1789	315S		440	230	270	322	161	128.8	760	95	95.5	95.4	90	H	43.9012	1996
600	1193	315M	325	660	270	280	354	177	141.6	850	95	95.2	94.6	82	H	99.9048	2604
	1789	315M		646	240	280	468	234	188	840	95.5	96.0	96.2	90	H	61.4616	2310

Parts and Accessories

# METRIC 20M Series (with "P" Suffix) – 1-270 HP (0.75-200 kW)

## Performance Data

### 50 Hz Performance Data

HP	RPM	Frame	kW	Torque			FLA			LRA	Efficiency			Power Factor	Design	WK <sup>2</sup> kgm <sup>2</sup>	Wt kg
				FLT Nm	LRT %	BDT %	230V	380V	400V		%	FL	75%				
1	2890	80	0.75	2.5	440	410	3	1.8	1.7	750	82	79.5	75.6	79	N	0.001	10.6
	1430	80		5	410	390	3.7	2.2	2.1	650	82.5	82.4	80.3	64	N	0.00265	11
	940	90S		7.6	170	240	3.4	2.1	2	430	78.9	79.3	77.2	70	N	0.0032	16
1.5	2890	80	1.1	3.6	510	480	3.8	2.3	2.2	380	83	82.9	79.1	77	N	0.00142	11.9
	1450	90S		7.2	230	350	4.3	2.6	2.5	720	84.1	84	81.8	77	N	0.0036	18
2	2925	90S	1.5	4.9	240	290	5.3	3.2	3	730	84.2	84.4	82.7	85	N	0.0014	16.5
	1450	90L		9.9	250	340	5.7	3.4	3.3	740	85.3	85.5	83.9	78	H	0.004	21
3	2910	90L	2.2	7.2	270	400	7.5	4.5	4.3	800	85.9	86.5	85.4	86	N	0.0019	18.5
4	2915	100L	3	9.8	310	410	10.2	6.2	5.8	930	87.1	87.7	86.9	85	N	0.0039	25
	965	132S		29.7	220	290	10.7	6.5	6.1	660	87	87.8	85	81	H	0.044	73
5.5	2925	112M	4	13	230	320	12.8	7.8	7.4	840	88.1	89	88.7	89	N	0.0075	35.5
	1455	112M		26.2	210	350	14.2	8.6	8.1	760	88.6	89	88.5	80	H	0.0115	41.5
	965	132M		39.8	230	300	14.1	8.5	8.1	660	88	89.2	89.1	81	H	0.0579	81
7.5	2940	132S	5.5	17.9	260	340	17.4	10.5	10	820	89.2	89.2	87.7	89	N	0.014	74
	1465	132S		35.7	250	330	18.1	11	10.4	850	89.6	90	89.5	85	H	0.036	82
10	2940	132S	7.5	24.4	280	380	23.2	14.1	13.3	850	90.1	90.3	89	90	N	0.017	83
	1465	132M		49.1	290	380	25.1	15.2	14.4	880	90.4	90.6	89.7	83	H	0.042	86
	970	160M		73.8	210	290	25.7	15.5	14.8	680	89.5	89.9	89	82	H	0.102	134
15	2945	160M	11	35.7	210	300	33.6	20.4	19.3	790	91.2	91.4	90.3	90	N	0.048	123
	1470	160M		71.5	260	300	36.4	22	20.9	730	91.4	91.7	90.9	83	H	0.088	136
	970	160L		108.3	220	300	37.3	22.6	21.4	700	90.3	91	91	82	H	0.123	146
20	2945	160M	15	48.6	240	340	45.5	27.6	26.2	800	91.9	91.9	89.8	90	N	0.059	132
	1475	160L		97.1	270	320	49.3	29.8	28.3	810	92.1	92.5	92	83	H	0.104	154
	980	180L		146.2	330	280	60	30.9	29.3	730	91.2	91.3	90	81	H	0.276	198
25	2940	160L	18.5	60.1	230	300	55.8	33.8	32.1	770	92.4	92.8	92.2	90	N	0.072	139
	1475	180M		120.2	260	300	59	35.7	33.9	790	92.6	92.3	90.9	85	H	0.162	190
	988	200L		179	200	240	63	38	36	580	92.1	92.4	91.8	80	H	0.5	285
30	2955	180M	22	71.1	320	370	66.2	40.1	38.1	920	92.7	92.4	91.1	90	N	0.095	190
	1475	180L		142.4	320	340	71.5	43.3	41.1	840	93	92.8	91.4	83	H	0.185	200
	988	200L		213	210	220	74	45	43	600	92.2	92.6	91.9	81	H	0.64	309
40	2962	200L	30	97	220	240	90	54	52	650	93.3	93.5	92.9	90	N	0.19	275
	1476	200L		194	190	240	90	55	52	590	93.7	94.7	95.1	89	H	0.38	329
	990	225M		289	200	240	99	60	57	670	92.9	93.3	92.7	82	H	0.89	392
50	2959	200L	37	119	220	250	110	67	63	660	93.7	93.8	93.5	90	N	0.2	295
	1483	225S		238	180	250	113	69	65	630	94.1	94.8	94.8	87	H	0.51	373
	992	250M		356	200	260	123	74	71	670	93.3	93.6	92.8	81	H	1.23	440
60	2975	225M	45	144	210	270	137	83	79	710	94.6	94.9	94.6	87	N	0.26	385
	1481	225M		290	180	250	136	82	78	640	94.3	95.1	95.3	88	H	0.59	410
	992	280S		433	200	230	147	89	84	670	93.9	94.1	93.6	82	H	1.7	635
75	2970	250M	55	177	220	300	161	97	93	690	94.3	94.9	94.9	91	N	0.42	495
	1487	250M		353	270	290	162	98	93	790	94.9	95.2	94.7	90	H	1	520
	992	280M		529	220	260	181	110	104	680	94.2	94.5	94	81	H	1.9	695
100	2979	280S	75	240	180	320	223	135	128	740	94.7	94.9	94.3	89	N	0.76	660
	1488	280S		481	190	250	220	133	127	660	95	95.3	95.1	90	H	1.37	710
	990	315S		723	200	220	242	147	139	620	94.8	95.3	95.2	82	H	2.4	900
125	2978	280M	90	289	180	290	264	160	152	710	95	95.1	94.5	90	N	0.95	690
	1489	280M		577	220	260	263	159	151	730	95.3	95.8	95.7	90	H	1.8	761
	990	315M		868	200	230	286	175	165	620	95.1	95.8	95.9	83	H	2.93	965
150	1488	315S	110	706	200	220	322	195	185	660	95.4	95.7	95.7	90	H	2.25	920
	991	315M		1060	240	250	349	211	201	670	95.3	95.7	95.5	83	H	3.46	1110
175	1488	315M	132	847	200	240	385	233	221	710	95.7	96.3	96.4	90	H	2.59	1030
	990	315M		1273	210	220		250	238	620	95.4	95.9	95.9	84	H	4.21	1230
220	1489	315M	160	1026	190	260	466	282	268	720	95.8	96.3	96.4	90	H	2.8	1130
	991	315M		1542	230	240		322	306	620	95.6	95.8	95.3	79	H	4.36	1235
270	1488	315M	200	1284	210	250		356	338	700	96	96.2	96.2	89	H	3.46	1205

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

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### METRIC 20M Series (with "P" Suffix) – (0.75-200 kW) Performance Data

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

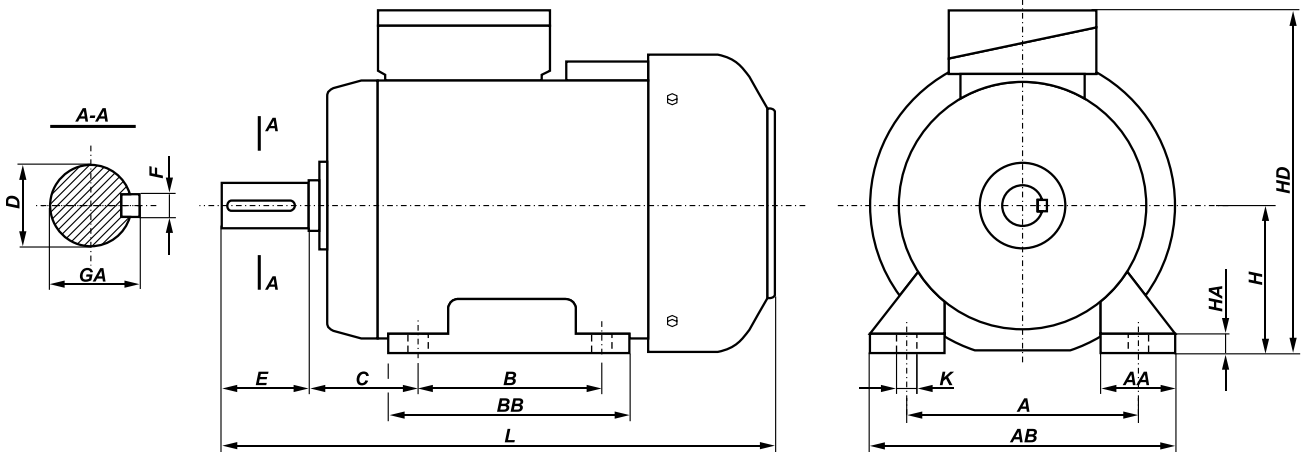
#### 60 Hz Performance Data

HP	RPM	Frame	kW	Torque			FLA			LRA	Efficiency			Power Factor	Design	WK <sup>2</sup> lb ft <sup>2</sup>	Wt lbs
				FLT lb ft	LRT %	BDT %	230V	460V	575V		%	FL	75%				
1	3470	80	0.75	1.5	530	530	3	1.5	1.2	1010	82	79.8	74.3	79	N	0.024	23
	1720	80		3.1	480	460	3.7	1.85	1.5	750	83.5	83.4	82.2	64	N	0.134	24
	1150	90S		4.6	180	290	3.6	1.8	1.5	510	82.5	82.3	79	65	N	0.076	36
1.5	3470	80	1.1	2.2	610	610	3.8	1.9	1.55	460	85.5	84.8	84.7	77	N	0.034	26
	1760	90S		4.4	260	420	4.4	2.2	1.8	850	86.5	85.8	82.6	73	N	0.085	40
2	3535	90S	1.5	3	280	360	5.4	2.7	2.2	960	85.5	85.1	82.7	81	N	0.033	36
	1755	90L		6	280	400	5.6	2.8	2.2	860	86.5	86	83.2	77	H	0.095	46
3	3520	90L	2.2	4.4	320	480	7.6	3.8	3	940	86.5	86.7	85.4	84	N	0.045	41
4	3530	100L	3	6	350	480	10.4	5.2	4.2	980	88.5	88.1	85.2	82	N	0.093	55
	1170	132S		18	240	340	10.6	5.3	4.2	740	89.5	89.7	88.5	79	H	1.044	161
5.5	3535	112M	4	8.1	260	380	12.8	6.4	5.1	980	88.5	88.3	86.5	88	N	0.178	78
	1765	112M		16	230	390	14.2	7.1	5.7	860	89.5	89.1	86.8	79	H	0.273	92
	1165	132M		24.2	260	360	14	7	5.6	770	89.5	90	89	80	H	1.374	179
7.5	3540	132S	5.5	10.9	280	440	17.8	8.9	7.1	950	89.5	88.5	85.7	87	N	0.332	163
	1770	132S		21.8	270	400	18.2	9.1	7.3	1000	91.7	91.4	89.6	83	H	0.854	181
10	3545	132S	7.5	14.9	300	430	23.4	11.7	9.4	910	90.2	90.2	88.9	89	N	0.403	183
	1770	132M		29.9	370	460	25.8	12.9	10.3	1100	91.7	91.6	90	79	H	0.997	190
	1170	160M		45.1	230	330	25.8	12.9	10.3	800	91	91	89.8	81	H	2.42	295
15	3550	160M	11	21.8	220	310	33.8	16.9	13.5	840	91	90.4	87.9	90	N	1.139	271
	1775	160M		43.7	290	350	36	18	14.4	840	92.4	92.4	91	83	H	2.088	300
	1170	160L		66.2	240	350	38	19	15.2	800	91.7	91.4	89.4	79	H	2.919	322
20	3550	160M	15	29.7	260	390	46	23	18.4	860	91	91.4	90.8	90	N	1.4	291
	1775	160L		59.5	310	360	49.4	24.7	19.8	920	93	92.3	90.3	82	H	2.468	340
	1180	180L		89.5	400	320	51.4	25.7	20.6	860	91.7	91.1	89.1	80	H	6.55	437
25	3545	160L	18.5	36.7	260	340	56.2	28.1	22.5	900	91.7	91.7	90.3	90	N	1.709	306
	1775	180M		66.8	260	310	59	29.5	23.6	870	93.6	93.1	91.5	84	H	3.844	419
	1189	200L		109.9	240	280	62	31	25	680	93	92.9	91.7	80	H	11.865	628
30	3560	180M	22	43.5	350	410	67.6	33.8	27	980	91.7	91.2	89.5	89	N	2.254	419
	1775	180L		87	390	440	72	36	28.8	940	93.6	92.4	89.8	82	H	4.39	441
	1189	200L		130.6	240	250	73	36.5	29.3	690	93	92.9	91.6	81	H	15.187	681
40	3566	200L	30	59	240	280	91	45	36	760	92.4	92.4	91.5	90	N	4.509	606
	1778	200L		118.8	230	260	90	45	36	690	94.3	94.8	94.7	89	H	9.018	725
	1191	225M		177.8	230	260	98	49	39	780	94.1	94.1	93	82	H	21.12	864
50	3560	200L	37	73	220	280	112	56	45	760	93	93	92.1	89	N	4.746	650
	1785	225S		146	210	290	113	56	45	730	94.7	95	94.6	87	H	12.102	822
	1193	250M		218.3	230	280	122	61	49	780	94.1	94	92.8	81	H	29.188	970
60	3577	225M	45	88.5	240	310	138	69	55	810	94.2	94.2	93.3	87	N	6.17	849
	1784	225M		177.8	210	290	135	67	54	740	95.1	95.5	95.3	88	H	14.001	904
	1193	280S		265.5	220	250	146	73	58	770	94.5	94.4	93.3	82	H	40.342	1400
75	3573	250M	55	108.4	240	330	163	81	65	800	94.2	94.4	93.9	90	N	9.967	1091
	1789	250M		216.9	310	320	161	80	64	930	95.4	95.3	94.4	90	H	23.73	1147
	1193	280M		324.5	250	290	182	91	73	790	94.7	94.7	93.8	80	H	45.088	1532
100	3581	280S	75	147.5	190	340	224	112	90	840	94.4	94.2	93	89	N	18.035	1455
	1789	280S		295	220	270	219	110	88	770	95.4	95.5	94.8	90	H	32.511	1566
	1191	315S		443.3	220	230	242	121	97	720	95	95.2	94.6	82	H	56.953	1985
125	3581	280M	90	177	190	300	264	132	106	800	95	95.1	94.6	90	N	22.544	1521
	1791	280M		354	260	300	263	131	105	850	95.6	95.8	95.3	90	H	42.715	1678
	1191	315M		532.5	220	250	286	143	114	730	95.2	95.6	95.4	83	H	69.53	2128
150	1789	315S	110	433	230	250	320	160	128	780	95.8	96	95.6	90	H	53.393	2029
	1192	315M		649.8	270	270	352	176	141	780	95.8	96	95.4	82	H	82.107	2448
175	1790	315M	132	519.3	230	260	383	191	153	830	96.2	96.5	96.3	90	H	61.462	2271
	1191	315M		780.4	240	230	412	206	165	720	95.8	96	95.7	84	H	99.905	2712
220	1790	315M	160	629.9	230	290	464	232	186	850	96.2	96.6	96.5	90	H	66.445	2492
	1192	315M		945.6	270	260	524	262	210	720	95.8	95.9	95.3	80	H	103.464	2723
270	1789	315M	200	787.8	240	280	586	293	235	820	96.2	96.4	96	89	H	82.107	2657



# METRIC IEC 40M Series and 20M Series (without "P" Suffix) IM B3 Footed IEC56-180

Mounting Dimensions



Series	Frame	A	B	C	D	E	F	GA	H	HA	K	AA	AB	BB	HD	L
40M	Sg 56-2A	90	71	36	9	20	3	10.2	56	7	7	5.8	30	110	154	188
40M	Sg 56-4A	90	71	36	9	20	3	10.2	56	7	7	5.8	30	110	154	149*
40M	Sg 56-2B	90	71	36	9	20	3	10.2	56	7	7	5.8	30	110	154	196
40M	Sg 56-4B	90	71	36	9	20	3	10.2	56	7	7	5.8	30	110	154	157*
40M	Sg 56-6B	90	71	36	9	20	3	10.2	56	7	7	5.8	30	110	154	196
40M	Sg 63-...A	100	80	40	11	23	4	12.5	63	8.5	8.5	7	36	124	165	202
40M	Sg 63-...B	100	80	40	11	23	4	12.5	63	8.5	8.5	7	36	124	165	214
40M	Sh 71-...A	112	90	45	14	30	5	16	71	8	8	7	45	142	182	223
40M	Sh 71-...B	112	90	45	14	30	5	16	71	8	8	7	45	142	182	245
40M	Sh 80-...A	125	100	50	19	40	6	21.5	80	9	9	10	55	160	200	266
40M	Sh 80-...B	125	100	50	19	40	6	21.5	80	9	9	10	55	160	200	278
20M	2SIE 90S -2,4,6	140	100	56	24	50	8	27	90	10	10	50	170	153	220	330
20M	2SIE 90L - 2	140	125	56	24	50	8	27	90	10	10	50	170	153	220	330
20M	2SIE 90L -4,6	140	125	56	24	50	8	27	90	10	10	50	170	153	220	355
20M	2SIE 100L -2,4A	160	140	63	28	60	8	31	100	14	12	45	200	172	240	420
20M	2SIE 100L -4B	160	140	63	28	60	8	31	100	14	12	45	200	172	240	440
20M	2SIE 100L -6	160	140	63	28	60	8	31	100	14	12	45	200	172	240	376
20M	2SIE 112M - 2,6	190	140	70	28	60	8	31	112	14	12	54	230	174	276	384
20M	2SIE 112M-4	190	140	70	28	60	8	35	112	14	12	54	230	174	276	411
20M	2SIE 132S -2A,6	216	140	89	38	80	10	41	132	16	12	56	278	182	310	463
20M	2SIE 132S -2B,4	216	140	89	38	80	10	41	132	16	12	56	278	220	310	501
20M	2SIE 132M -4,6A,6B	216	178	89	38	80	10	41	132	16	12	56	278	220	310	501
20M	2SIE 160M -2A,2B,4,6	254	210	108	42	110	12	45	160	20	15	60	305	256	370	612
20M	2SIE 160L -2,4,6	254	254	108	42	110	12	45	160	20	15	60	305	300	370	656
20M	2SIE 180M -2,4	279	241	121	48	110	14	51.5	180	26	15	70	350	320	408	705
20M	2SIE 180L -4,6	279	279	121	48	110	14	51.5	180	26	15	70	350	320	408	705

Units in millimeters and (...) regards all RPMs (2p=2,4,6).

General Information

### METRIC 20M Series (without "P" Suffix) – IM B3 Footed IEC200-355 Mounting Dimensions

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

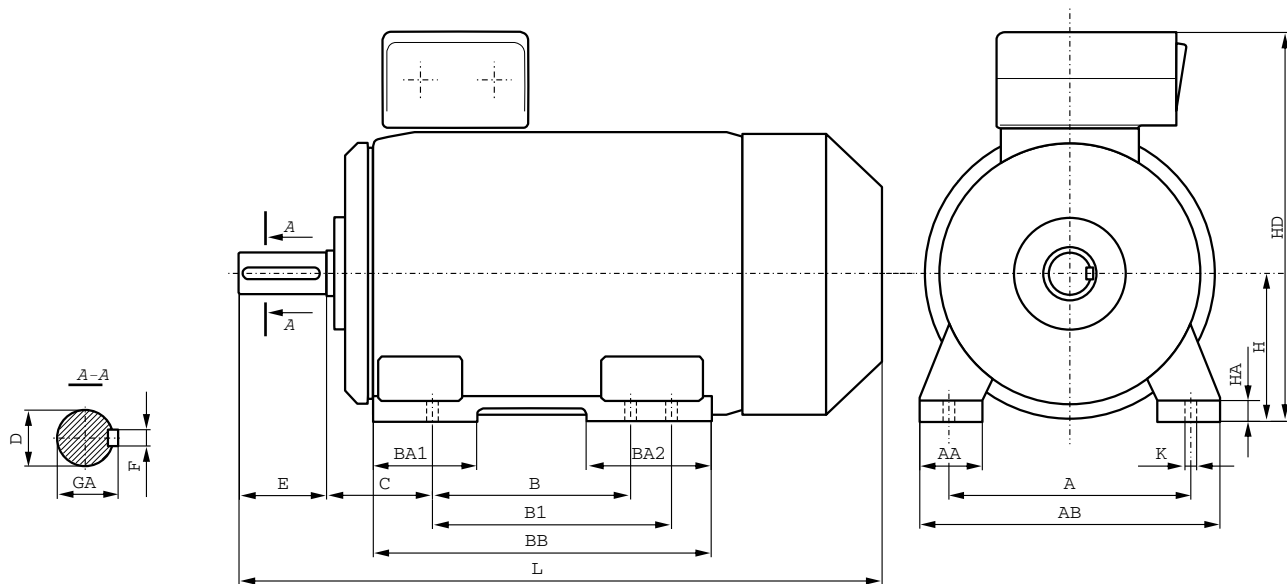
Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

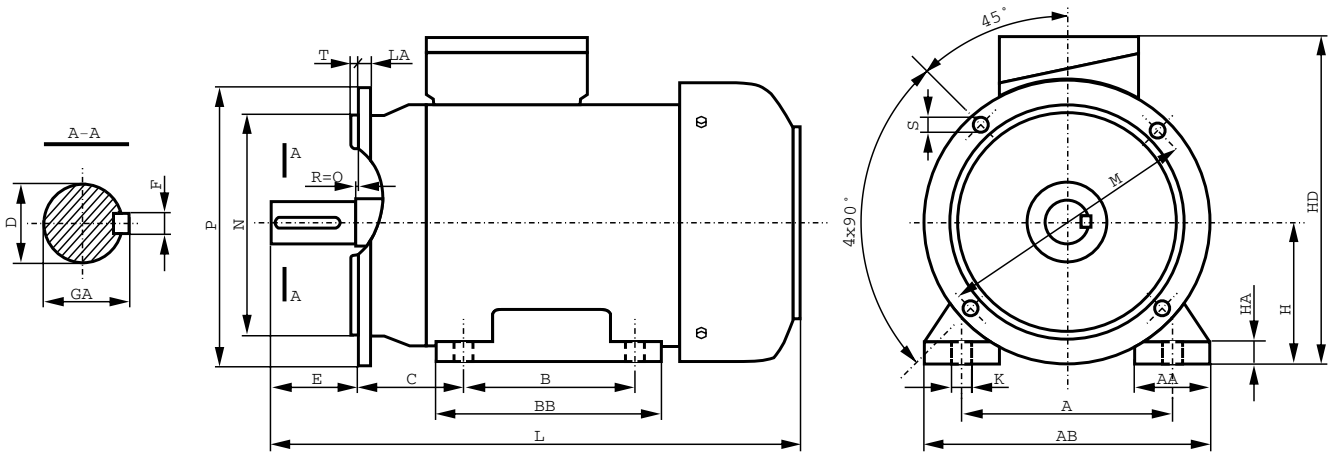


Series	Frame	A	B	B1	C	D	E	F	GA	H	HA	K	AA	AB	BA1	BA2	BB	HD	L
20M	2SIE 200	318	305	-	133	55	110	16	59	200	32	19	80	400	113	113	380	520	850
20M	2SIE 225 S4	356	286	311	149	60	140	18	64	225	34	19	85	440	115	115	380	570	960
20M	2SIE 225 M2	356	286	311	149	55	110	16	59	225	34	19	85	440	115	115	380	570	930
20M	2SIE 225 M4-6	356	286	311	149	60	140	18	64	225	34	19	85	440	115	115	380	570	960
20M	2SIE 250 M2	406	349	-	168	60	140	18	64	250	37	24	90	480	135	135	445	635	1010
20M	2SIE 250 M4-6	406	349	-	168	65	140	18	69	250	37	24	90	480	135	135	445	635	1040
20M	2SIE 280 S2	457	368	419	190	65	140	18	69	280	40	24	105	550	130	165	520	720	1135
20M	2SIE 280 S4-6	457	368	419	190	75	140	20	79.5	280	40	24	105	550	130	165	520	720	1135
20M	2SIE 280 M2	457	368	419	190	65	140	18	69	280	40	24	105	550	130	165	520	720	1135
20M	2SIE 280 M4-6	457	368	419	190	75	140	20	79.5	280	40	24	105	550	130	165	520	720	1135
20M	2SIE 315 S2	508	406	457	216	65	140	18	69	315	48	28	135	610	135	205	600	805	1325
20M	2SIE 315 S4-6	508	406	457	216	80	170	22	85	315	48	28	135	610	135	205	600	805	1355
20M	2SIE 315 M2A,B,C,D	508	406	457	216	65	140	18	69	315	48	28	135	610	135	205	600	805	1325
20M	2SIE 315 M4-6A,B,C,D	508	406	457	216	80	170	22	85	315	48	28	135	610	135	205	600	805	1355
20M	2SIE 315 ML (4,6)	508	457	508	216	80	170	22	85	315	40	28	120	620	150	180	637	865	1345
20M	2SIE 355 ML (2)	610	560	630	254	80	170	22	85	355	50	28	150	720	250	300	890	935	1580
20M	2SIE 355 ML (4,6)	610	560	630	254	100	210	28	106	355	50	28	150	720	250	300	890	935	1620
20M	2SIE 355 H (2)	610	900	-	200	70	140	20	74.5	355	45	28	160	730	265	265	1045	995	1800
20M	2SIE 355 H (4,6)	610	900	-	200	100	210	28	106	355	45	28	160	730	265	265	1045	995	1870

Units in millimeters and (...) regards all RPMs (2p=2,4,6).

# METRIC IEC 40M Series and 20M Series (without "P" Suffix) IM B35 D-Flange IEC56-180

Mounting Dimensions



Series	Frame	A	B	C	D	E	F	GA	H	K	M	N	P	S	LA	T	AA	AB	BB	HA	HD
40M	SLg 56-2A	90	71	36	9	20	3	10.2	56	8	100	80	120	7	8	3	30	110	92	7	154
40M	SLg 56-4A	90	71	36	9	20	3	10.2	56	8	100	80	120	7	8	3	30	110	92	7	154
40M	SLg 56-2B	90	71	36	9	20	3	10.2	56	8	100	80	120	7	8	3	30	110	92	7	154
40M	SLg 56-4B	90	71	36	9	20	3	10.2	56	8	100	80	120	7	8	3	30	110	92	7	154
40M	SLg 56-6B	90	71	36	9	20	3	10.2	56	8	100	80	120	7	8	3	30	110	92	7	154
40M	SLg 63-A	100	80	40	11	23	4	12.5	63	10	115	95	140	10	9	3	36	124	106	8.5	165
40M	SLg 63-B	100	80	40	11	23	4	12.5	63	10	115	95	140	10	9	3	36	124	106	8.5	165
40M	SLh 71-A	112	90	45	14	30	5	16	71	10	130	110	160	10	9	3.5	45	142	116	8	182
40M	SLh 71-B	112	90	45	14	30	5	16	71	10	130	110	160	10	9	3.5	45	142	116	8	182
40M	SLh 80-A	125	100	50	19	40	6	21.5	80	10	165	130	200	12	10	3.5	55	160	130	9	200
40M	SLh 80-B	125	100	50	19	40	6	21.5	80	10	165	130	200	12	10	3.5	55	160	130	9	200
20M	2SIEL 90S-2,4,6	140	100	56	24	50	8	27	90	10	165	130	200	12	8	3.5	50	170	153	10	220
20M	2SIEL 90L-2	140	125	56	24	50	8	27	90	10	165	130	200	12	8	3.5	50	170	153	10	220
20M	2SIEL 90L-4,6	140	125	56	24	50	8	27	90	10	165	130	200	12	8	3.5	50	170	153	10	220
20M	2SIEL 100L-2,4A	160	140	63	28	60	8	31	100	12	215	180	250	15	11	4	45	200	172	14	240
20M	2SIEL 100L-4B	160	140	63	28	60	8	31	100	12	215	180	250	15	11	4	45	200	172	14	240
20M	2SIEL 100L-6	160	140	63	28	60	8	31	100	12	215	180	250	15	11	4	45	200	172	14	240
20M	2SIEL 112M-2,6	190	140	70	28	60	8	31	112	12	215	180	250	15	12	4	54	230	174	14	276
20M	2SIEL 112M-4	190	140	70	28	60	8	31	112	12	215	180	250	15	12	4	54	230	174	14	276
20M	2SIEL 132S-2A,6	216	140	89	38	80	10	41	132	12	265	230	300	15	12	4	56	278	182	16	310
20M	2SIEL 132S-2B,4	216	140	89	38	80	10	41	132	12	265	230	300	15	12	4	56	278	220	16	310
20M	2SIEL 132M-4,6A,6B	216	178	89	38	80	10	41	132	12	265	230	300	15	12	4	56	278	220	16	310
20M	2SIEL 160M-2A,2B,4,6	254	210	108	42	110	12	45	160	15	300	250	350	19	13	5	60	305	256	20	370
20M	2SIEL 160L-2,4,6	254	254	108	42	110	12	45	160	15	300	250	350	19	13	5	60	305	300	20	370
20M	2SIEL 180M-2,4	279	241	121	48	110	14	51.5	180	15	300	250	350	19	13	5	70	350	320	26	408
20M	2SIEL 180L-4,6	279	279	121	48	110	14	51.5	180	15	300	250	350	19	13	5	70	350	320	26	408

Units in millimeters and (...) regards all RPMs (2p=2,4,6).

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

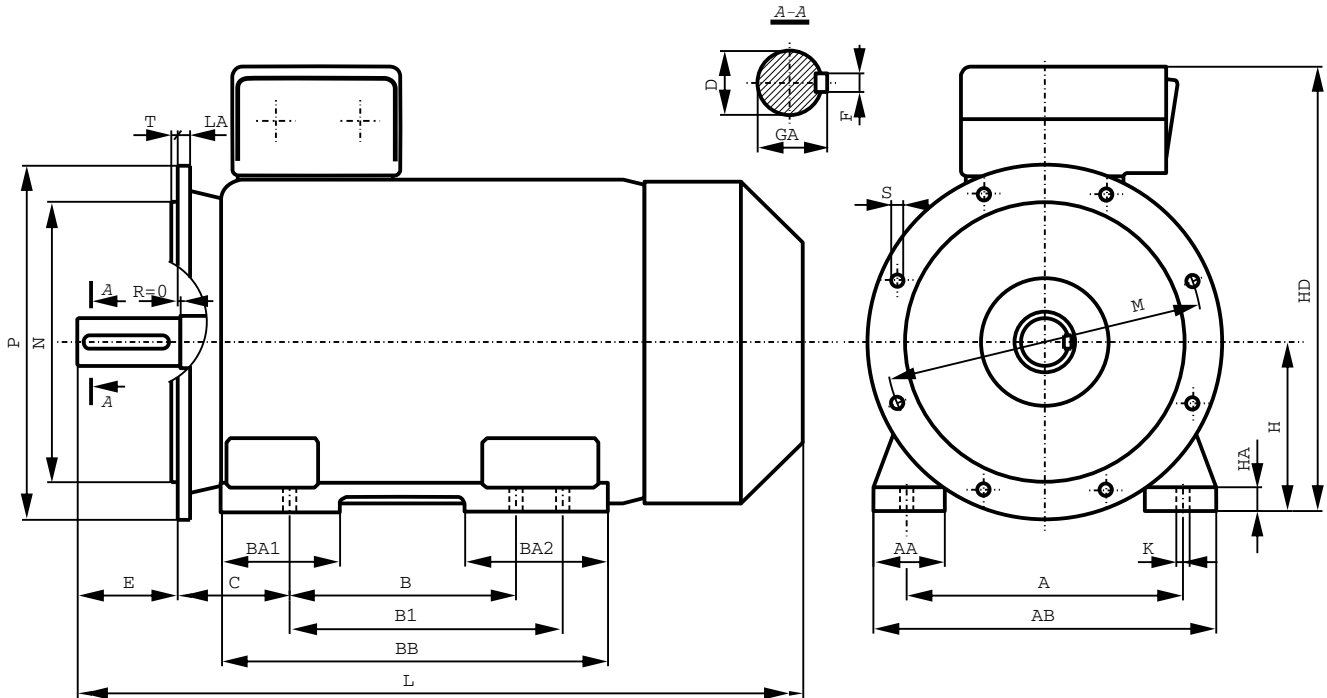
Pump Motors

Brake Motors

Parts and Accessories

Technical Data

### METRIC IEC 20M Series (without "P" Suffix) – IM B35 D-Flange IEC200-355 Mounting Dimensions

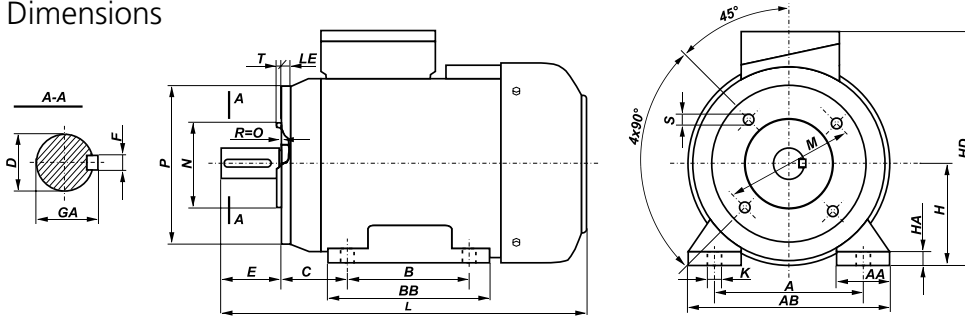


Series	Frame	A	B	B1	C	D	E	F	GA	H	HA	K	AA	AB	BA1	BA2	BB	HD	LA	P	M	N	S	T	L
20M	2SIEL 200	318	305	-	133	55	110	16	59	200	32	19	80	400	113	113	380	520	16.5	400	350	300	19	5	850
20M	2SIEL 225S4	356	286	311	149	60	140	18	64	225	34	19	85	440	115	115	380	570	18	450	400	350	19	5	960
20M	2SIEL 225M2	356	286	311	149	55	110	16	59	225	34	19	85	440	115	115	380	570	18	450	400	350	19	5	930
20M	2SIEL 225M4-6	356	286	311	149	60	140	18	64	225	34	19	85	440	115	115	380	570	18	450	400	350	19	5	960
20M	2SIEL 250M2	406	349	-	168	60	140	18	64	250	37	24	90	480	135	135	445	635	23	550	500	450	19	5	1010
20M	2SIEL 250M4-6	406	349	-	168	65	140	18	69	250	37	24	90	480	135	135	445	635	23	550	500	450	19	5	1040
20M	2SIEL 280S2	457	368	419	190	65	140	18	69	280	40	24	105	550	130	165	520	720	23	550	500	450	19	5	1135
20M	2SIEL 280S4-6	457	368	419	190	75	140	20	79.5	280	40	24	105	550	130	165	520	720	23	550	500	450	19	5	1135
20M	2SIEL 280M2	457	368	419	190	65	140	18	69	280	40	24	105	550	130	165	520	720	23	550	500	450	19	5	1135
20M	2SIEL 280M4-6	457	368	419	190	75	140	20	79.5	280	40	24	105	550	130	165	520	720	23	550	500	450	19	5	1135
20M	2SIEL 315S2	508	406	457	216	65	140	18	69	315	48	28	135	610	135	205	600	805	23	660	600	550	24	6	1325
20M	2SIEL 315S4-6	508	406	457	216	80	170	22	85	315	48	28	135	610	135	205	600	805	23	660	600	550	24	6	1355
20M	2SIEL 315M2A;B;C;D	508	406	457	216	65	140	18	69	315	48	28	135	610	135	205	600	805	23	660	600	550	24	6	1325
20M	2SIEL 315M4-6A;B;C;D	508	406	457	216	80	170	22	85	315	48	28	135	610	135	205	600	805	23	660	600	550	24	6	1355
20M	2SIEL 315ML (4,6)	508	457	508	216	80	170	22	85	315	40	28	120	620	150	180	637	865	22	660	600	550	22	6	1345
20M	2SIEL 355ML -2	610	560	630	254	80	170	22	85	355	50	28	150	720	250	300	890	935	24	800	740	680	22	6	1580
20M	2SIEL 355ML (4,6)	610	560	630	254	100	210	28	106	355	50	28	150	720	250	300	890	935	24	800	740	680	22	6	1620
20M	2SIEL 355H -2	610	900	-	254	70	140	20	74.5	355	45	28	160	730	265	265	1045	995	24	800	740	680	22	6	1854
20M	2SIEL 355H (4,6)	610	900	-	254	100	210	28	106	355	45	28	160	730	265	265	1045	995	24	800	740	680	22	6	1924

Units in millimeters and (...) regards all RPMs (2p=2,4,6).

# METRIC IEC 40M Series and 20M Series (without "P" Suffix) IM B34 & B34/1 C-Face IEC56-160

## Mounting Dimensions



Series	Frame	Flange	A	B	C	D	E	F	GA	H	HA	K	M	N	P	S	LE	T	AA	AB	BB	HD	L
40M	SLg 56-2A1	B34/1	90	71	36	9	20	3	10.2	56	7	8	85	70	105	M6	15	2.5	30	110	92	154	188
40M	SLg 56-2A2	B34	90	71	36	9	20	3	10.2	56	7	8	65	50	80	M5	12.5	2.5	30	110	92	154	188
40M	SLg 56-4A1	B34/1	90	71	36	9	20	3	10.2	56	7	8	85	70	105	M6	15	2.5	30	110	92	154	149*
40M	SLg 56-4A2	B34	90	71	36	9	20	3	10.2	56	7	8	65	50	80	M5	12.5	2.5	30	110	92	154	149*
40M	SLg 56-2B1	B34/1	90	71	36	9	20	3	10.2	56	7	8	85	70	105	M6	15	2.5	30	110	92	154	196
40M	SLg 56-2B2	B34	90	71	36	9	20	3	10.2	56	7	8	65	50	80	M5	12.5	2.5	30	110	92	154	196
40M	SLg 56-4B1	B34/1	90	71	36	9	20	3	10.2	56	7	8	85	70	105	M6	15	2.5	30	110	92	154	157*
40M	SLg 56-4B2	B34	90	71	36	9	20	3	10.2	56	7	8	65	50	80	M5	12.5	2.5	30	110	92	154	157*
40M	SLg 56-6B1	B34/1	90	71	36	9	20	3	10.2	56	7	8	85	70	105	M6	15	2.5	30	110	92	154	196
40M	SLg 56-6B2	B34	90	71	36	9	20	3	10.2	56	7	8	65	50	80	M5	12.5	2.5	30	110	92	154	196
40M	SLg 63-...A1	B34/1	100	80	40	11	23	4	12.5	63	8.5	10	100	80	120	M6	14	3	36	124	106	165	202
40M	SLg 63-...A2	B34	100	80	40	11	23	4	12.5	63	8.5	10	75	60	90	M5	9.5	2.5	36	124	106	165	202
40M	SLg 63-...B1	B34/1	100	80	40	11	23	4	12.5	63	8.5	10	100	80	120	M6	14	3	36	124	106	165	214
40M	SLg 63-...B2	B34	100	80	40	11	23	4	12.5	63	8.5	10	75	60	90	M5	9.5	2.5	36	124	106	165	214
40M	SLh 71-...A1	B34/1	112	90	45	14	30	5	16	71	8	10	115	95	140	M8	14	3	45	142	116	182	223
40M	SLh 71-...A2	B34	112	90	45	14	30	5	16	71	8	10	85	70	105	M6	12	2.5	45	142	116	182	223
40M	SLh 71-...B1	B34/1	112	90	45	14	30	5	16	71	8	10	115	95	140	M8	14	3	45	142	116	182	245
40M	SLh 71-...B2	B34	112	90	45	14	30	5	16	71	8	10	85	70	105	M6	12	2.5	45	142	116	182	245
40M	SLh 80-...A1	B34/1	125	100	50	19	40	6	21.5	80	9	10	130	110	160	M8	14	3.5	55	160	130	200	266
40M	SLh 80-...A2	B34	125	100	50	19	40	6	21.5	80	9	10	100	80	120	M6	12	3	55	160	130	200	266
40M	SLh 80-...B1	B34/1	125	100	50	19	40	6	21.5	80	9	10	130	110	160	M8	14	3.5	55	160	130	200	278
40M	SLh 80-...B2	B34	125	100	50	19	40	6	21.5	80	9	10	100	80	120	M6	12	3	55	160	130	195	278
20M	2SIEL 90S 2,4,6	B34/1	140	100	56	24	50	8	27	90	10	10	130	110	160	M8	10	3.5	41	170	153	228	331
20M	2SIEL 90S 2,4,6	B34	140	100	56	24	50	8	27	90	10	10	115	95	140	M8	10	3	41	170	153	228	331
20M	2SIEL 90L 2	B34/1	140	125	56	24	50	8	27	90	10	10	130	110	160	M8	10	3.5	41	170	153	228	331
20M	2SIEL 90L 2	B34	140	125	56	24	50	8	27	90	10	10	115	95	140	M8	10	3	41	170	153	228	331
20M	2SIEL 90L 4,6	B34/1	140	125	56	24	50	8	27	90	10	10	130	110	160	M8	10	3.5	41	170	153	228	356
20M	2SIEL 90L 4,6	B34	140	125	56	24	50	8	27	90	10	10	115	95	140	M8	10	3	41	170	153	228	356
20M	2SIEL 100L 2,6	B34/1	160	140	63	28	60	8	31	100	14	12	165	130	200	M10	12	3.5	44	197	174	250	377
20M	2SIEL 100L 2,6	B34	160	140	63	28	60	8	31	100	14	12	130	110	160	M8	12	3.5	44	197	174	250	377
20M	2SIEL 100L 4A	B34/1	160	140	63	28	60	8	31	100	14	12	165	130	200	M10	12	3.5	44	197	174	250	421
20M	2SIEL 100L 4A	B34	160	140	63	28	60	8	31	100	14	12	130	110	160	M8	12	3.5	44	197	174	250	421
20M	2SIEL 100L 4B	B34/1	160	140	63	28	60	8	31	100	14	12	165	130	200	M10	12	3.5	44	197	174	250	421
20M	2SIEL 100L 4B	B34	160	140	63	28	60	8	31	100	14	12	130	110	160	M8	12	3.5	44	197	174	250	421
20M	2SIEL 112M 2,6	B34/1	190	140	70	28	60	8	31	112	14	12	165	130	200	M10	12	3.5	49	230	174	276	389
20M	2SIEL 112M 2,6	B34	190	140	70	28	60	8	31	112	14	12	130	110	160	M8	12	3.5	49	230	174	276	389
20M	2SIEL 112M 4	B34/1	190	140	70	28	60	8	31	112	14	12	165	130	200	M10	12	3.5	49	230	174	276	416
20M	2SIEL 112M 4	B34	190	140	70	28	60	8	31	112	14	12	130	110	160	M8	12	3.5	49	230	174	276	416
20M	2SIEL 132S 2A,6	B34/1	216	140	89	38	80	10	41	132	17	12	215	180	250	M12	12	4	62	274	182	310	461
20M	2SIEL 132S 2A,6	B34	216	140	89	38	80	10	41	132	17	12	165	130	200	M10	12	3.5	62	274	182	310	461
20M	2SIEL 132S 2B,4	B34/1	216	140	89	38	80	10	41	132	17	12	215	180	250	M12	12	4	62	274	182	310	499
20M	2SIEL 132S 2B,4	B34	216	140	89	38	80	10	41	132	17	12	165	130	200	M10	12	3.5	62	274	182	310	499
20M	2SIEL 132M 2,4,6,6B	B34/1	216	178	89	38	80	10	41	132	17	12	215	180	250	M12	12	4	62	274	220	310	499
20M	2SIEL 132M 2,4,6,6B	B34	216	178	89	38	80	10	41	132	17	12	165	130	200	M10	12	3.5	62	274	220	310	499
20M	2SIEL 160M 2A,2B,4,6	B34/1	254	210	108	42	110	12	45	160	22	15	265	230	300	M12	13	4	60	305	256	365	611
20M	2SIEL 160M 2A,2B,4,6	B34	254	210	108	42	110	12	45	160	22	15	215	180	250	M12	20	4	60	305	256	365	611
20M	2SIEL 160L 2,4,6	B34/1	254	254	108	42	110	12	45	160	22	15	265	230	300	M12	13	4	60	305	300	365	655
20M	2SIEL 160L 2,4,6	B34	254	254	108	42	110	12	45	160	22	15	215	180	250	M12	20	4	60	305	300	365	655

Units in millimeters and (...) regards all RPMs (2p=2,4,6).

B34 is standard B14 (C-Face) flange motor with feet. B34/1 is non-standard reduction B14 (C-Face) flange motor with feet.

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rollled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

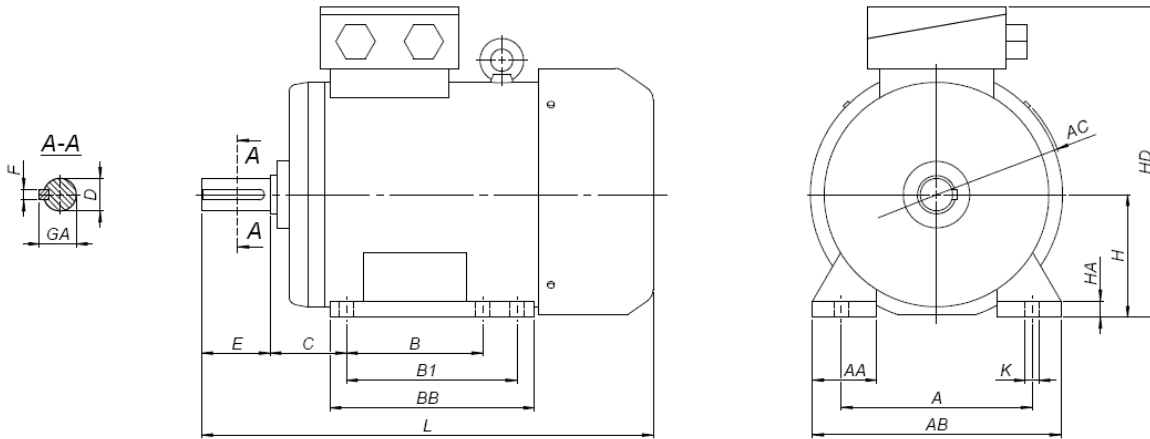
Brake Motors

Parts and Accessories

Technical Data

### METRIC IEC 20M Series (with "P" Suffix) IM B3 Footed IEC90-315

Mounting Dimensions

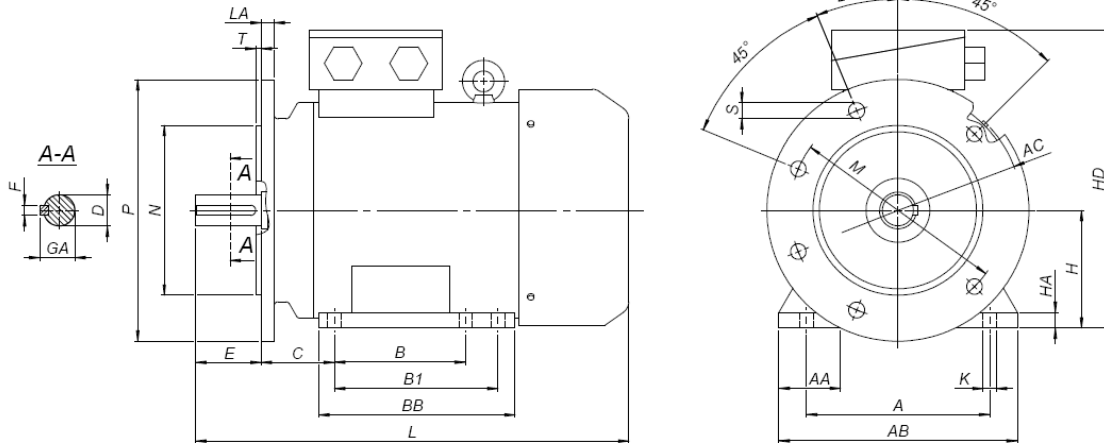


Series	Frame	A	B	B1	C	D	E	F	GA	H	HA	K	AA	AB	AC	BB	HD	L
20M..P	3SIE 90S 2,4,6	140	100	125	56	24	50	8	27	90	10	10	47	182	200	153	238	331
20M..P	3SIE 90L 2	140	100	125	56	24	50	8	27	90	10	10	47	182	200	153	238	331
20M..P	3SIE 90L 4,6	140	100	125	56	24	50	8	27	90	10	12	47	182	200	153	238	356
20M..P	3SIE 100L 2,6	160	140	-	63	28	60	8	31	100	12	12	52	202	215	170	257	377
20M..P	3SIE 100L 4A,4B	160	140	-	63	28	60	8	31	100	12	12	52	202	215	170	257	417
20M..P	3SIE 112M 2,6	190	140	-	70	28	60	8	31	112	14	12	52	222	248	170	280	398
20M..P	3SIE 112M 4	190	140	-	70	28	60	8	31	112	14	12	52	222	248	170	280	425
20M..P	3SIE 132S 2A,2B,4,6	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	329	512
20M..P	3SIE 132S 2	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	329	542
20M..P	3SIE 132M 4,6A,6B	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	329	512
20M..P	3SIE 132M 2,2A,4A,4B	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	329	542
20M..P	3SIE 160M 2A,2B,4,6	254	210	254	108	42	110	12	45	160	25	15	81	320	340	300	383	643
20M..P	3SIE 160L 2,4,6	254	210	254	108	42	110	12	45	160	25	15	81	320	340	300	383	643
20M..P	3SIE 180M 2,4	279	241	279	121	48	110	14	51.5	180	27	15	92	353	360	320	414	723
20M..P	3SIE 180L 4,6	279	241	279	121	48	110	14	51.5	180	27	15	92	353	360	320	414	723
20M..P	3SIE 200L 2A,B,C,D;L4,C,D;L6A,B	318	305	-	133	55	110	16	59	200	32	19	80	400	455	380	520	850
20M..P	3SIE 225S 4	356	286	311	149	60	140	18	64	225	34	19	85	440	500	380	570	930
20M..P	3SIE 225M 2,C	356	286	311	149	55	110	16	59	225	34	19	85	440	500	380	570	900
20M..P	3SIE 225M 4,C;M6,C	356	286	311	149	60	140	18	64	225	34	19	85	440	500	380	570	930
20M..P	3SIE 250M 2,C	406	349	-	168	60	140	18	64	250	37	24	90	480	545	445	635	1010
20M..P	3SIE 250M 4,C;M6,C	406	349	-	168	65	140	18	69	250	37	24	90	480	545	445	635	1040
20M..P	3SIE 280S 2	457	368	419	190	65	140	18	69	280	40	24	105	550	600	520	720	1135
20M..P	3SIE 280S 4;S6	457	368	419	190	75	140	20	79.5	280	40	24	105	550	600	520	720	1135
20M..P	3SIE 280M2,C,D	457	368	419	190	65	140	18	69	280	40	24	105	550	600	520	720	1135
20M..P	3SIE 280M 4,C;M6,C	457	368	419	190	75	140	20	79.5	280	40	24	105	550	600	520	720	1135
20M..P	3SIE 315S 2	508	406	457	216	65	140	18	69	315	48	28	120	610	630	565	805	1235
20M..P	3SIE 315S 4;S6	508	406	457	216	80	170	22	85	315	48	28	120	610	630	565	805	1265
20M..P	3SIE 315M 2A	508	406	457	216	65	140	18	69	315	48	28	120	610	630	565	805	1235
20M..P	3SIE 315M 2B	508	406	457	216	65	140	18	69	315	48	28	120	610	630	565	805	1235
20M..P	3SIE 315M 4A;6A	508	406	457	216	80	170	22	85	315	48	28	120	610	630	565	805	1265
20M..P	3SIE 315M 4B	508	406	457	216	80	170	22	85	315	48	28	120	610	630	565	805	1265
20M..P	3SIE 315M 6B	508	406	457	216	80	170	22	85	315	48	28	135	610	630	600	805	1355
20M..P	3SIE 315M 2C	508	406	457	216	70	140	20	74.5	315	48	28	135	610	630	600	805	1290
20M..P	3SIE 315M 4C	508	406	457	216	80	170	22	85	315	48	28	135	610	630	600	805	1320
20M..P	3SIE 315M 6C	508	406	457	216	80	170	22	85	315	48	28	135	610	630	600	805	1320
20M..P	3SIE 315M 6D	508	406	457	216	90	170	25	95	315	48	28	135	610	630	600	805	1320

Units in millimeters and (...) regards all RPMs (2p=2,4,6).

# METRIC IEC 20M Series (with "P" Suffix) IM B35 D-Flange IEC90-315

Mounting Dimensions



Series	Frame	A	B	B1	C	D	E	F	GA	H	HA	K	AA	AB	AC	BB	HD	L	LA	M	N	P	T	S	
																								Ø	holes
20M..P	3SIEL 90S2,4,6	140	100	125	56	24	50	8	27	90	10	10	47	182	200	153	238	331	8	165	130	200	3.5	12	4
20M..P	3SIEL 90L2	140	100	125	56	24	50	8	27	90	10	10	47	182	200	153	238	331	8	165	130	200	3.5	12	4
20M..P	3SIEL 90L4,6	140	100	125	56	24	50	8	27	90	10	12	47	182	200	153	238	356	8	165	130	200	3.5	12	4
20M..P	3SIEL 100L2,6	160	140	-	63	28	60	8	31	100	12	12	52	202	215	170	257	377	11	215	180	250	4	15	4
20M..P	3SIEL 100L4A,4B	160	140	-	63	28	60	8	31	100	12	12	52	202	215	170	257	417	11	215	180	250	4	15	4
20M..P	3SIEL 112M2,6	190	140	-	70	28	60	8	31	112	14	12	52	222	248	170	280	398	12	215	180	250	4	15	4
20M..P	3SIEL 112M4	190	140	178	70	28	60	8	31	112	14	12	52	222	248	170	280	425	12	215	180	250	4	15	4
20M..P	3SIEL 132S2A,2B,4,6	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	329	512	12	265	230	300	4	15	4
20M..P	3SIEL 132S2	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	329	542	12	265	230	300	4	15	4
20M..P	3SIEL 132M4,6A,6B	216	178	178	89	38	80	10	41	132	18	12	61	266	288	220	329	512	12	265	230	300	4	15	4
20M..P	3SIEL 132M2,2A,4A,4B	216	178	254	89	38	80	10	41	132	18	12	61	266	288	220	329	542	12	265	230	300	4	15	4
20M..P	3SIEL 160M2A,2B,4,6	254	210	254	108	42	110	12	45	160	25	15	81	320	340	300	383	643	13	300	250	350	5	19	4
20M..P	3SIEL 160L2,4,6	254	254	279	108	42	110	12	45	160	25	15	81	320	340	300	383	643	13	300	250	350	5	19	4
20M..P	3SIEL 180M2,4	279	241	279	121	48	110	14	51.5	180	27	15	92	353	360	320	414	723	13	300	250	350	5	19	4
20M..P	3SIEL 180L4,6	279	279	-	121	48	110	14	51.5	180	27	15	92	353	360	320	414	723	13	300	250	350	5	19	4
20M..P	3SIEL 200L2A,B,C,D; L4,C,D;L6A,B	318	305	311	133	55	110	16	59	200	32	19	80	400	455	380	520	850	16.5	350	300	400	5	19	4
20M..P	3SIEL 225S4	356	286	311	149	60	140	18	64	225	34	19	85	440	500	380	570	930	18	400	350	450	5	19	8
20M..P	3SIEL 225M2,C	356	286	311	149	55	110	16	59	225	34	19	85	440	500	380	570	900	18	400	350	450	5	19	8
20M..P	3SIEL 225M4,C;M6,C	356	286	-	149	60	140	18	64	225	34	19	85	440	500	380	570	930	18	400	350	450	5	19	8
20M..P	3SIEL 250M2,C	406	349	-	168	60	140	18	64	250	37	24	90	480	545	445	635	1010	23	500	450	550	5	19	8
20M..P	3SIEL 250M4,C;M6,C	406	349	419	168	65	140	18	69	250	37	24	90	480	545	445	635	1040	23	500	450	550	5	19	8
20M..P	3SIEL 280S2	457	368	419	190	65	140	18	69	280	40	24	105	550	600	520	720	1135	23	500	450	550	5	19	8
20M..P	3SIEL 280S4;S6	457	368	419	190	75	140	20	79.5	280	40	24	105	550	600	520	720	1135	23	500	450	550	5	19	8
20M..P	3SIEL 280M2,C,D	457	368	419	190	65	140	18	69	280	40	24	105	550	600	520	720	1135	23	500	450	550	5	19	8
20M..P	3SIEL 280M4,C;M6,C	457	368	457	190	75	140	20	79.5	280	40	24	105	550	600	520	720	1135	23	500	450	550	5	19	8
20M..P	3SIEL 315S2	508	406	457	216	65	140	18	69	315	48	28	120	610	630	565	805	1235	23	600	550	660	6	24	8
20M..P	3SIEL 315S4;S6	508	406	457	216	80	170	22	85	315	48	28	120	610	630	565	805	1265	23	600	550	660	6	24	8
20M..P	3SIEL 315M2A	508	406	457	216	65	140	18	69	315	48	28	120	610	630	565	805	1235	23	600	550	660	6	24	8
20M..P	3SIEL 315M2B	508	406	457	216	65	140	18	69	315	48	28	135	610	630	565	805	1235	23	600	550	660	6	24	8
20M..P	3SIEL 315M4A,6A	508	406	457	216	80	170	22	85	315	48	28	120	610	630	565	805	1265	23	600	550	660	6	24	8
20M..P	3SIEL 315M4B	508	406	457	216	80	170	22	85	315	48	28	120	610	630	565	805	1265	23	600	550	660	6	24	8
20M..P	3SIEL 315M6B	508	406	457	216	80	170	22	85	315	48	28	135	610	630	600	805	1355	23	600	550	660	6	24	8
20M..P	3SIEL 315M2C	508	406	457	216	70	140	20	74.5	315	48	28	135	610	630	600	805	1290	23	600	550	660	6	24	8
20M..P	3SIEL 315M4C	508	406	457	216	80	170	22	85	315	48	28	135	610	630	600	805	1320	23	600	550	660	6	24	8
20M..P	3SIEL 315M6C	508	406	457	216	80	170	22	85	315	48	28	135	610	630	600	805	1320	23	600	550	660	6	24	8
20M..P	3SIEL 315M6D	508	406	457	216	90	170	25	95	315	48	28	135	610	630	600	805	1320	23	600	550	660	6	24	8

Units in millimeters and (...) regards all RPMs (2p=2,4,6).

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

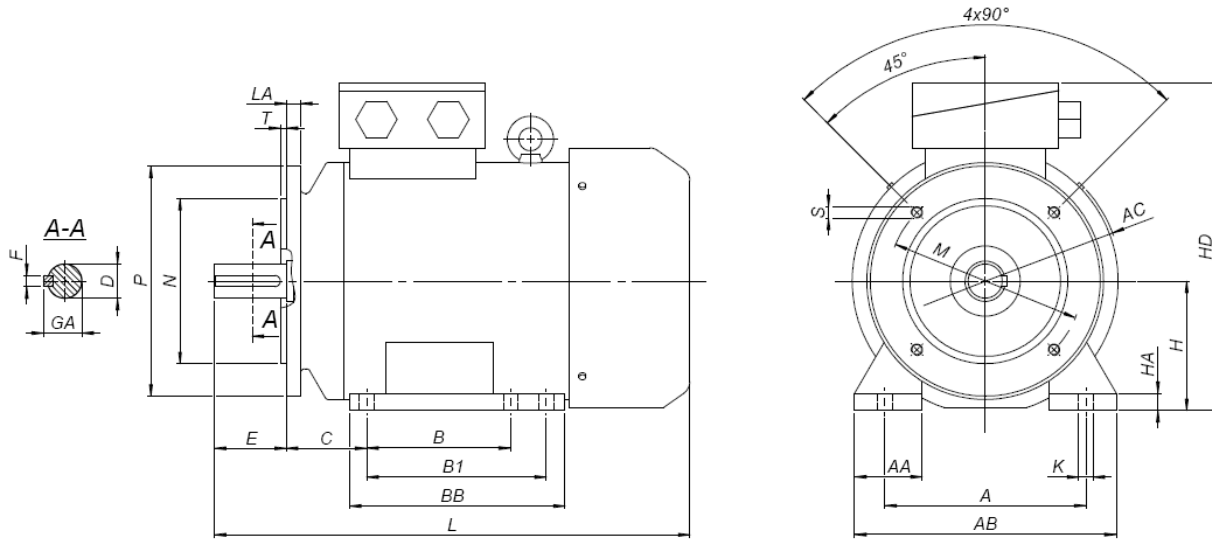
Pump Motors

Brake Motors

Parts and Accessories

### METRIC IEC 20M Series (with "P" Suffix) IM B34 & B34/1 C-Face IEC90-315

#### Mounting Dimensions



Series	Frame	A	B	B1	C	D	E	F	GA	H	HA	K	AA	AB	AC	BB	HD	L	LA	Flange	M	N	P	T	S Ø holes	
20M..P	3SIEK 90S2,4,6,L2	140	100	125	56	24	50	8	27	90	10	10	47	182	200	153	148	331	10	B34/1	130	110	160	3.5	M8	4
20M..P	3SIEK 90S2,4,6,L2	140	100	125	56	24	50	8	27	90	10	10	47	182	200	153	148	331	10	B34	115	95	140	3	M8	4
20M..P	3SIEK 90L4,6	140	100	125	56	24	50	8	27	90	10	12	47	182	200	153	148	356	10	B34/1	130	110	160	3.5	M8	4
20M..P	3SIEK 90L4,6	140	100	125	56	24	50	8	27	90	10	12	47	182	200	153	148	356	10	B34	115	95	140	3	M8	4
20M..P	3SIEK 100L2,6	160	140	-	63	28	60	8	31	100	12	12	52	202	215	170	157	377	12	B34/1	165	130	200	3.5	M10	4
20M..P	3SIEK 100L2,6	160	140	-	63	28	60	8	31	100	12	12	52	202	215	170	157	377	12	B34	130	110	160	3.5	M8	4
20M..P	3SIEK 100L4A,4B	160	140	-	63	28	60	8	31	100	12	12	52	202	215	170	157	417	12	B34/1	165	130	200	3.5	M10	4
20M..P	3SIEK 100L4A,4B	160	140	-	63	28	60	8	31	100	12	12	52	202	215	170	157	417	12	B34	130	110	160	3.5	M8	4
20M..P	3SIEK 112M2,6	190	140	-	70	28	60	8	31	112	14	12	52	222	248	170	168	398	12	B34/1	165	130	200	3.5	M10	4
20M..P	3SIEK 112M2,6	190	140	-	70	28	60	8	31	112	14	12	52	222	248	170	168	398	12	B34	130	110	160	3.5	M8	4
20M..P	3SIEK 112M4	190	140	178	70	28	60	8	31	112	14	12	52	222	248	170	168	425	12	B34/1	165	130	200	3.5	M10	4
20M..P	3SIEK 112M4	190	140	178	70	28	60	8	31	112	14	12	52	222	248	170	168	425	12	B34	130	110	160	3.5	M8	4
20M..P	3SIEK 132S2A,2B,4,6	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	197	512	12	B34/1	215	180	250	4	M12	4
20M..P	3SIEK 132S2A,2B,4,6	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	197	512	12	B34	165	130	200	3.5	M10	4
20M..P	3SIEK 132S2	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	197	542	12	B34/1	215	180	250	4	M12	4
20M..P	3SIEK 132S2	216	140	178	89	38	80	10	41	132	18	12	61	266	288	220	197	542	12	B34	165	130	200	3.5	M10	4
20M..P	3SIEK 132M4,6A,6B	216	178	178	89	38	80	10	41	132	18	12	61	266	288	220	197	512	12	B34/1	215	180	250	4	M12	4
20M..P	3SIEK 132M4,6A,6B	216	178	178	89	38	80	10	41	132	18	12	61	266	288	220	197	512	12	B34	165	130	200	3.5	M10	4
20M..P	3SIEK 132M2,2A,4A,4B	216	178	254	89	38	80	10	41	132	18	12	61	266	288	220	197	542	12	B34/1	215	180	250	4	M12	4
20M..P	3SIEK 132M2,2A,4A,4B	216	178	254	89	38	80	10	41	132	18	12	61	266	288	220	197	542	12	B34	165	130	200	3.5	M10	4
20M..P	3SIEK 160M2A,2B,4,6	254	210	254	108	42	110	12	45	160	25	15	81	320	340	300	223	643	13	B34/1	265	230	300	4	M12	4
20M..P	3SIEK 160M2A,2B,4,6	254	210	254	108	42	110	12	45	160	25	15	81	320	340	300	223	643	13	B34	215	180	250	4	M12	4
20M..P	3SIEK 160L2,4,6	254	210	254	108	42	110	12	45	160	25	15	81	320	340	300	223	643	13	B34/1	265	230	300	4	M12	4
20M..P	3SIEK 160L2,4,6	254	210	254	108	42	110	12	45	160	25	15	81	320	340	300	223	643	13	B34	215	180	250	4	M12	4

Units in millimeters and (...) regards all RPMs (2p=2,4,6).

B34 is standard B14 (C-Face) flange motor with feet. B34/1 is non-standard reduction B14 (C-Face) flange motor with feet.



## Premium JM/JP Pump 20J Series – 1-60 HP

### Performance Data

HP	RPM	Frame	Torque			FLA			LRA		Efficiency			Power Factor			NEMA Design	Code	SF	WK <sup>2</sup> lb ft <sup>2</sup>	lbs
			FLT lb-ft	LRT %	BDT %	460V	575V	208V	460V	575V	FL	75%	50%	FL	75%	50%					
1	1765	143J	3	300	320	1.4	1.1	3.1	12.9	10.3	85.5	84.5	81.3	78	70	57	B	M	1.4	0.09	53
	3540	143J	2.2	350	410	2.1	1.7	4.6	20	16	84.5	83.2	79.8	78	69	57	B	M	1.4	0.07	56
1.5	1750	145J	4.5	300	400	2	1.6	4.4	16.6	13.3	87	86.8	85	79	72	59	B	K	1.4	0.1	57
	3525	145J	3	360	400	2.7	2.2	6.0	25.4	20.3	86	85.7	83.3	82	75	62	B	L	1.4	0.08	57
2	1745	145J	6	260	340	2.6	2.1	5.8	19.2	15.4	86.5	87.1	85.8	83	77	64	B	J	1.4	0.13	59
	3500	182J	4.5	310	320	4	3.2	8.8	32	25.6	86.5	86.4	84.4	82	76	65	B	K	1.4	0.12	76
3	1775	182J	8.9	320	400	4.2	3.4	9.3	38	30.4	89.5	88.5	85.8	75	67	54	A	M	1.4	0.27	102
	3535	184J	7.4	450	530	6.2	5.0	13.7	73	58.4	89	88.6	86.7	85	80	68	A	N	1.4	0.2	102
5	1770	184J	14.8	300	380	6.7	5.4	14.8	61	48.8	89.5	89.2	87.6	78	71	58	A	L	1.3	0.34	108
	3525	213J	11.2	290	315	8.5	6.8	18.8	76	60.8	90	90	88.7	92	89	81	A	K	1.3	0.45	159
7.5	1765	213J	22.3	240	290	9.3	7.4	20.6	71	56.8	91.7	91.6	90.5	82	78	67	A	J	1.3	0.87	167
	3535	215J	14.8	300	335	11.4	9.1	25.2	93	74.4	90.2	90.4	89.3	91	88	80	A	J	1.3	0.5	173
10	1770	215J	29.6	230	280	12.5	10.0	27.6	87	69.6	91.7	91.7	90.4	82	77	66	A	H	1.3	0.99	185
	3540	254J	22.3	240	250	17.6	14.1	38.9	112	90	91.7	91.8	90.5	87	85	77	B	G	1.3	1.15	258
15	1775	254J	44.3	380	440	17.3	13.8	38.3	168	134.4	92.4	92	90.7	88	84	76	A	K	1.3	2.89	301
	3540	256J	29.7	230	260	22.9	18.3	50.6	138	110	92	92.4	91.7	89	88	82	B	F	1.3	1.47	306
20	1775	256J	59.1	380	450	22.9	18.3	50.6	230	184	93	92.7	91.4	88	84	76	A	L	1.2	3.57	390
	3555	284J	36.9	260	300	29.5	23.6	65.2	205	164	92.4	92.4	91.3	86	82	74	A	H	1.2	1.72	348
25	1780	284J	73.7	380	420	30.5	24.4	67.5	300	240	93.6	93.1	91.6	82	76	66	A	L	1.2	3.59	397
	3540	286J	44.5	250	300	35.2	28.2	77.8	215	172	91.7	92	91.2	87	85	80	A	G	1.2	1.92	390
30	1780	286J	88.4	370	390	37.5	30.0	82.9	350	280	93.6	93	91.3	80	73	61	A	L	1.2	3.84	441
	3552	324J	59	145	200	44	35	97.3	290	232	93	93.6	93.3	92	91	88	B	G	1.2	4	608
40	1780	324J	118	240	270	45	36	99.5	290	232	94.1	94.7	94.3	88	86	78	B	G	1.3	9.3	690
	3552	326J	74	145	200	55	44	121.6	362	290	93	93.7	93.5	92	92	89	B	G	1.2	4.7	655
50	1781	326J	148	250	270	56	45	123.8	362	290	94.5	95.1	94.9	88	85	78	B	G	1.3	11.6	769
	3562	364J	88.5	125	200	65	52	143.8	435	348	93.6	94.1	93.8	92	91	87	B	G	1.2	6.5	860
60	1786	364J	177	140	200	67	54	148.2	435	348	95	95.6	95.3	88	87	80	B	G	1.2	15.5	926

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

General Information

### Premium JM/JP Pump 20J Series – 143JM/JP-286JM/JP Mounting Dimensions

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

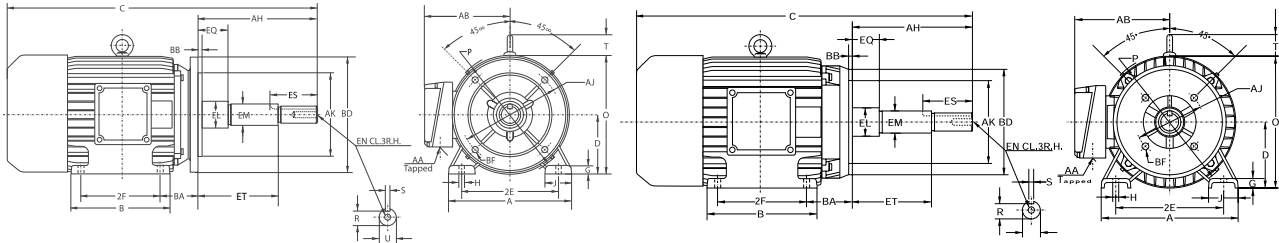
Brake Motors

Parts and Accessories

Technical Data

143JM/JP - 184JM/JP

213JM/JP - 286JM/JP

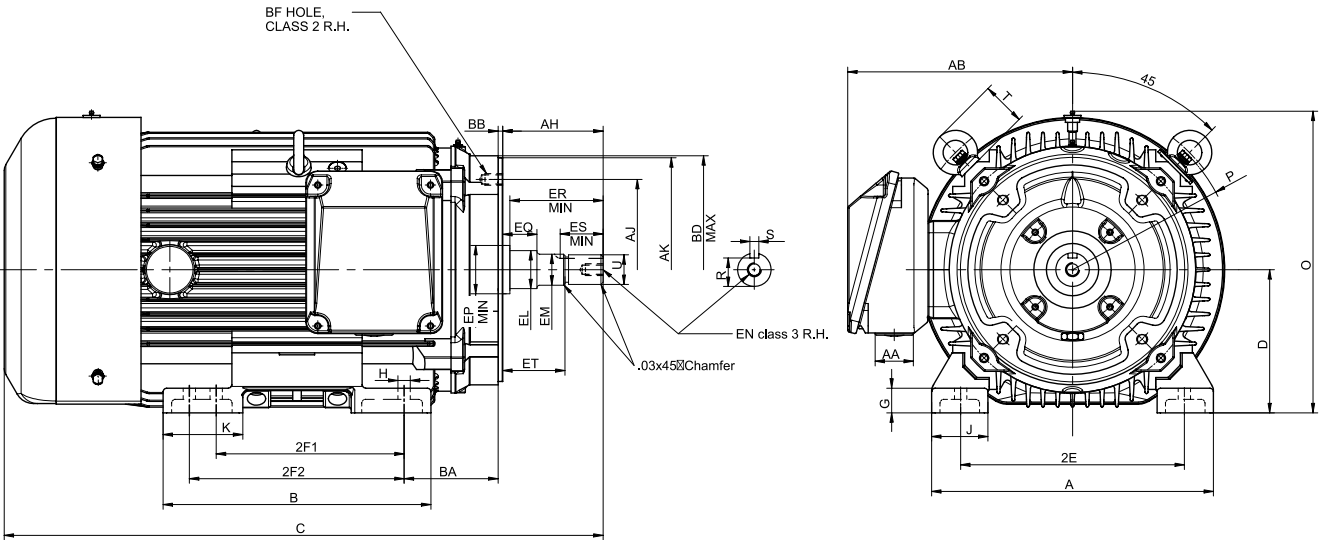


Frame	U	AH	AJ	AK	BB	BD Max	BF			EL	EM	EN			EQ	Keyseat			ET
							#	Tap Size	Bolt Penetration Allowance			Tap Size	Tap Drill Depth Max	Bolt Penetration Allowance		R	ES Min	S	
143 JP	0.8745	7.343 7.281	5.875	4.500 4.497	0.156 0.125	6.50	4	3/8-16	0.56	1.156	1.0000	3/8-16	1.12	0.85	1.578 1.548	0.771 0.756	1.65	0.190 0.188	5.952
145 JP										1.154									5.922
182 JP										1.250 1.248									0.9995
184 JP	0.8740	4.281 4.219	7.250	8.500 8.497	0.312 0.250	9.0	4	1/2-13	0.75	1.156	1.3750	1.12	0.85	0.640 0.610	0.771 0.756	1.65	0.190 0.188	2.860	
143 JM										1.154								2.890	
145 JM										1.250 1.248								0.9995	2.860
213 JP	1.2495	8.156 8.094	7.250	8.500 8.497	0.312 0.250	9.0	4	1/2-13	0.75	1.750	1.3750	1.12	0.85	2.390 2.360	1.112 1.097	1.65	0.252 0.250	5.890	
215 JP						1.748				5.860									
254 JP						1.250 1.248				0.9995								5.895	
256 JP	1.2490	5.281 5.219	11.00	12.5001 2.495	0.312 0.250	14.0	4	5/8-11	0.94	1.750	1.3750	1.50	1	0.640 0.610	1.112 1.097	2.53	0.252 0.250	5.855	
284 JP						1.748				2.985									
286 JP						1.250 1.248				0.9995								2.980	
213 JM	0.8745	4.281 4.219	7.250	8.500 8.497	0.312 0.250	9.0	4	1/2-13	0.75	1.250	1.0000	3/8-16	1.1222	0.85	0.640 0.610	0.771 0.756	1.65	0.190 0.188	2.860
215 JM						1.248				2.860									
254 JM						1.250 1.248				0.9995									3.015
256 JM	1.2490	5.281 5.219	11.00	12.5001 2.495	0.312 0.250	10.0	4	1/2-13	0.75	1.750	1.3750	1.50	1	0.640 0.610	1.112 1.097	2.53	0.252 0.250	2.985	
284 JM						1.748				3.020									
286 JM						1.250 1.248				0.9995								2.980	

Frame	D	2E	2F	G	H	BA	A	AA	AB	B	C	J	O	P	T
143 JP	3.50	5.50	4.00	0.39	0.34	2.36	6.62	3/4	6.50	5.83	19.41	1.66	7.48	8.27	-
145 JP	3.50	5.50	5.00	0.39	0.34	2.36	6.62	3/4	6.50	7.00	20.36	1.66	7.48	8.27	-
182 JP	4.50	7.50	4.50	0.60	0.41	2.78	9.00	1	7.90	6.74	22.42	2.13	9.09	9.53	1.77
184 JP	4.50	7.50	5.50	0.60	0.41	2.78	9.00	1	7.90	8.31	22.43	2.13	9.09	9.53	1.77
143 JM	3.50	5.50	4.00	0.39	0.34	2.36	6.62	3/4	6.50	5.83	16.35	1.66	7.48	8.27	-
145 JM	3.50	5.50	5.00	0.39	0.34	2.36	6.62	3/4	6.50	7.00	17.30	1.66	7.48	8.27	-
182 JM	4.50	7.70	4.50	0.60	0.41	2.78	9.00	1	7.90	6.74	19.36	2.13	0.09	9.53	1.77
184 JM	4.50	7.70	5.50	0.60	0.41	2.78	9.00	1	7.90	8.31	19.36	2.13	0.09	9.53	1.77
213 JP	5.25	8.50	5.50	0.72	0.41	3.80	10.24	1	8.45	8.10	27.28	2.20	10.55	10.94	1.77
215 JP	5.25	8.50	5.50	0.72	0.41	3.80	10.24	1	8.45	9.60	27.91	2.20	10.55	10.94	1.77
254 JP	6.25	10.00	8.25	0.58	0.55	4.50	12.28	1 1/4	10.08	9.92	30.24	2.36	13.18	14.17	2.08
256 JP	6.25	10.00	10.00	0.58	0.55	4.50	12.28	1 1/4	10.08	11.65	32.01	2.36	13.18	14.17	2.08
284 JP	7.00	11.00	9.50	0.89	0.55	4.95	13.78	1 1/2	10.34	11.61	34.94	2.75	14.01	14.17	2.08
286 JP	7.00	11.00	11.00	0.89	0.55	4.95	13.78	1 1/2	10.34	13.11	34.94	2.75	14.01	14.17	2.08
213 JM	5.25	8.50	5.50	0.72	0.41	3.80	10.24	1	8.45	8.10	23.88	2.20	10.55	10.94	1.77
215 JM	5.25	8.50	7.00	0.72	0.41	3.80	10.24	1	8.45	9.60	24.11	2.20	10.55	10.94	1.77
254 JM	6.25	10.00	8.25	0.58	0.55	4.50	12.28	1 1/4	10.08	9.92	27.36	2.36	13.18	14.17	2.08
256 JM	6.25	10.00	10.00	0.58	0.55	4.50	12.28	1 1/4	10.08	11.65	29.13	2.36	13.18	14.17	2.08
284 JM	7.00	11.00	9.50	0.89	0.55	4.95	13.78	1 1/2	10.34	11.61	32.06	2.75	14.01	14.17	2.08
286 JM	7.00	11.00	11.00	0.89	0.55	4.95	13.78	1 1/2	10.34	13.11	32.06	2.75	14.01	14.17	2.08

## Premium JM/JP Pump 20J Series – 324JM/JP-364JM/JP

### Mounting Dimensions



Frame	U	AH	AJ	AK	BB	BD Max	BF			EL	EM
							#	Tap Size	Bolt Penetration Allowance		
324 JM	1.2495-1.2490	5.281-5.219	11	12.500-12.495	0.312-0.250	14	4	5/8-11	0.94	1.750-1.748	1.3750-1.3745
326 JM	1.2495-1.2490	5.281-5.219	11	12.500-12.495	0.312-0.250	14	4	5/8-11	0.94	1.750-1.748	1.3750-1.3745
364 JM	1.6245-1.6240	5.281-5.219	11	12.500-12.495	0.312-0.250	14	4	5/8-11	0.94	1.750-1.748	1.3750-1.3745
365 JM	1.6245-1.6240	5.281-5.219	11	12.500-12.495	0.312-0.250	14	4	5/8-11	0.94	1.750-1.748	1.3750-1.3745
324 JP	1.2495-1.2490	8.156-8.094	11	12.500-12.495	0.312-0.250	14	4	5/8-11	0.94	1.750-1.748	1.3750-1.3745
326 JP	1.2495-1.2490	8.156-8.094	11	12.500-12.495	0.312-0.250	14	4	5/8-11	0.94	1.750-1.748	1.3750-1.3745
364 JP	1.6245-1.6240	8.156-8.094	11	12.500-12.495	0.312-0.250	14	4	5/8-11	0.94	2.125-2.123	1.7500-1.7495
365 JP	1.6245-1.6240	8.156-8.094	11	12.500-12.495	0.312-0.250	14	4	5/8-11	0.94	2.125-2.123	1.7500-1.7495

Frame	EN			EP Min	EQ	ER Min	Keyseat			ET
	Tap Size	Tap Drill Depth Max	Bolt Penetration Allowance				R	ES Min	S	
324 JM	1/2-13	1.5	1	2.125	0.645-0.605	5.25	1.112-1.097	2.53	0.252-0.250	3.020-2.980
326 JM	1/2-13	1.5	1	2.125	0.645-0.605	5.25	1.112-1.097	2.53	0.252-0.250	3.020-2.980
364 JM	1/2-13	1.5	1	2.756	0.645-0.605	5.25	1.112-1.097	2.53	0.252-0.250	3.020-2.980
365 JM	1/2-13	1.5	1	2.756	0.645-0.605	5.25	1.112-1.097	2.53	0.252-0.250	3.020-2.980
324 JP	1/2-13	1.5	1	2.125	2.395-2.355	8.125	1.112-1.097	2.53	0.252-0.250	5.895-5.855
326 JP	1/2-13	1.5	1	2.125	2.395-2.355	8.125	1.112-1.097	2.53	0.252-0.250	5.895-5.855
364 JP	1/2-13	1.5	1	2.5	2.395-2.355	8.125	1.416-1.401	2.53	0.377-0.375	5.895-5.855
365 JP	1/2-13	1.5	1	2.5	2.395-2.355	8.125	1.416-1.401	2.53	0.377-0.375	5.895-5.855

Frame	D	2E	2F	G	H	BA	A	AA	AB	B	C	J	O	P	T
324 JM	8.0000	12.5	10.5/-	1.38	0.66	5.25	15.8	2	12.6	15	33.38	3.15	16.9	17.9	2.5
326 JM	8.0000	12.5	10.50/12.0	1.38	0.66	5.25	15.8	2	12.6	15	33.38	3.15	16.9	17.9	2.5
364 JM	9.0000	14	11.25/-	1.49	0.66	5.88	17.5	3	13.6	15	35.42	3.35	18.7	19.9	2.5
365JM	9.0000	14	11.25/12.25	1.49	0.66	5.88	17.5	3	13.6	15	35.42	3.35	18.7	19.9	2.5
324 JP	8.0000	12.5	10.5/-	1.38	0.66	5.25	15.8	2	12.6	15	36.26	3.15	16.9	17.9	2.5
326 JP	8.0000	12.5	10.5/12.0	1.38	0.66	5.25	15.8	2	12.6	15	36.26	3.15	16.9	17.9	2.5
364 JP	9.0000	14	11.25/-	1.49	0.66	5.88	17.5	3	13.6	15	38.3	3.35	18.7	19.9	2.5
365 JP	9.0000	14	11.25/12.25	1.49	0.66	5.88	17.5	3	13.6	15	38.3	3.35	18.7	19.9	2.5

General Information

### EPACT JM/JP Pump 40J Series – 1-30 HP

Performance Data and Mounting Dimensions

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

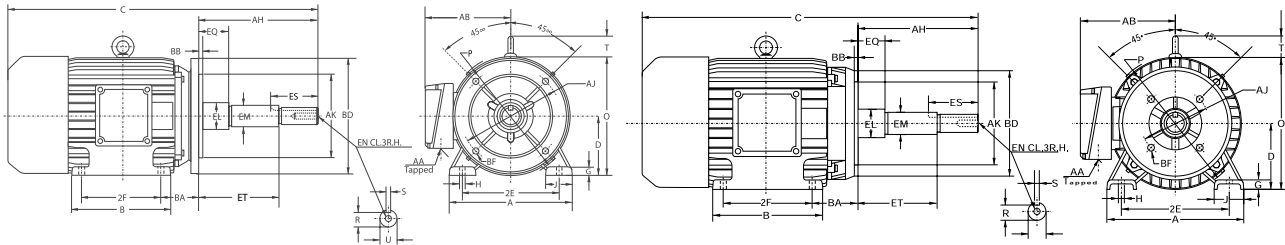
Parts and Accessories

Technical Data

HP	RPM	Frame	CC#	Torque			FLA			LRA		Efficiency			Power Factor			NEMA Design	Code	SF	WK <sup>2</sup> lb ft <sup>2</sup>	lbs
				FLT lb-ft	LRT %	BDT %	460V	575V	208V	460V	575V	FL	75%	50%	FL	75%	50%					
1	1755	143J	CC025A	3	295	310	1.5	1.2	3.1	12	9.6	82.5	81	76.8	75	66	53	B	L	1.4	0.08	51
	3500	143J	CC025A	2.2	275	320	2	1.6	4.2	16.4	13.1	82.5	81.4	77.5	87	81	72	B	K	1.3	0.06	51
1.5	1745	145J	CC025A	4.5	265	370	2.1	1.7	4.6	15.9	12.7	84	83.2	80	79	71	59	B	K	1.4	0.09	54
	3505	145J	CC025A	3	280	325	2.6	2	5.3	22.2	17.8	84	83.8	81.4	87	82	72	B	K	1.4	0.06	57
2	1735	145J	CC025A	6.1	240	330	2.7	2.2	5.8	18.4	14.7	84	84	82	82	76	65	B	J	1.4	0.11	56
	3510	182J	CC025A	4.5	220	280	3.8	3.1	8.9	27.6	22.1	85.5	84.8	82.1	86	80	71	B	J	1.4	0.12	75
3	1745	182J	CC025A	9	260	380	3.9	3.1	8.8	30.8	24.6	87.5	87.3	85.1	82	76	64	B	K	1.3	0.24	86
	3500	184J	CC025A	7.5	225	280	6.2	4.9	13.4	44	35.2	87.5	87.8	86.3	87	85	75	B	H	1.4	0.2	101
5	1735	184J	CC025A	15.1	250	320	6.2	5	13.8	45	36	87.5	88.7	86.9	86	81	70	B	J	1.3	0.34	103
	3500	213J	CC025A	11.3	220	350	8.6	6.9	18.6	56	44.8	88.5	89	88.2	92	89	83	B	G	1.3	0.36	138
7.5	3525	284J	CC025A	37.3	260	230	29.5	23.7	65.2	178	142.4	91	91.8	91.5	87	86	79	B	G	1.15	1.63	335
	1760	284J	CC025A	74.6	230	230	28	22.3	61.7	173	138.4	92.4	93.2	93.2	91	89	84	B	F	1.15	3.19	357
25	3535	286J	CC025A	44.6	245	290	35.1	28.1	76.1	200	160	91	91.3	90.5	88	86	82	B	F	1.15	1.92	388
	1755	286J	CC025A	89.8	235	230	33.2	26.4	75.2	212	169.6	92.4	93.3	93.4	92	90	85	B	G	1.15	3.59	395

143JM/JP - 184JM/JP

213JM/JP - 286JM/JP



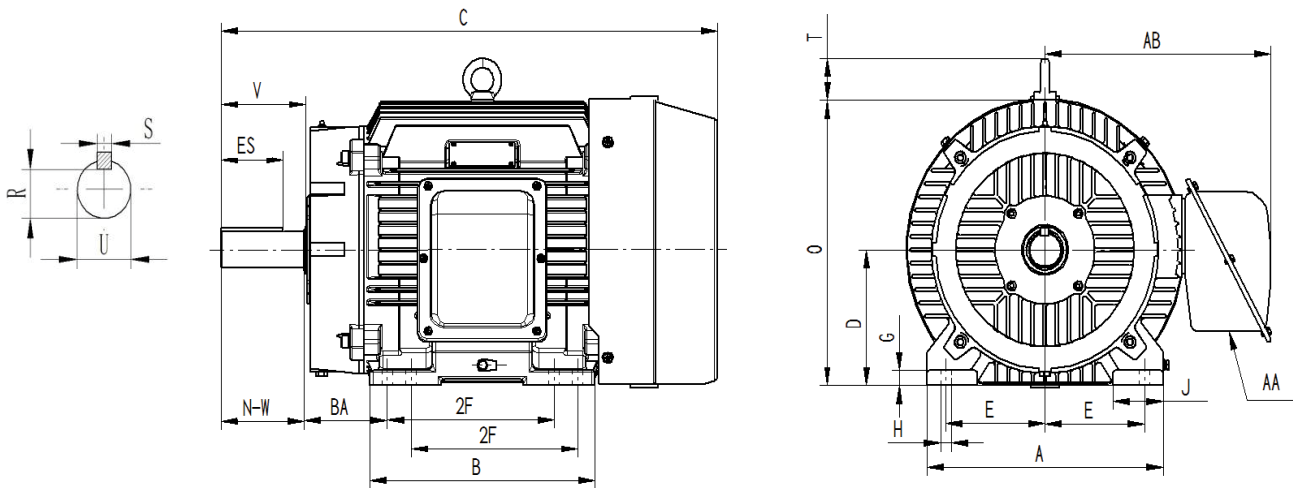
Frame	U	AH	AJ	AK	BB	BD Max	BF			EL	EM	EN			Keyseat			ET		
							#	Tap Size	Bolt Penetration Allowance			Tap Size	Tap Drill Depth Max	Bolt Penetration Allowance	EQ	R	ES Min		S	
143 JP										1.156										
145 JP	0.8745	7.343		4.500	0.156	6.50	4	3/8-16	0.56	1.154	1.0000				1.578	0.771	1.65	0.190	5.952	
182 JP	0.8740	7.281	5.875	4.497	0.125					1.250	0.9995	3/8-16	1.12	0.85	1.548	0.756	1.65	0.188	5.922	
184 JP										1.248										
213 JP	1.2495	8.156	7.250	8.500	0.312	9.0	4	1/2-13	0.75	1.750	1.3750	3/8-16	1.12	0.85	2.390	1.112	1.65	0.252	5.890	
284 JP	1.2490	8.094		8.497	0.250					1.748	1.3745				2.360	1.097	2.53	0.250	5.860	
286 JP			11.00	12.5001	0.2495	14.0	4	5/8-11	0.94			1/2-13	1.50	1					5.895	
143 JM										1.156										
145 JM	0.8745	4.281		4.500	0.156	6.50	4	3/8-16	0.56	1.154	1.0000				0.640	0.771	1.65	0.190	2.890	
182 JM	0.8740	4.219	5.875	4.497	0.125					1.250	0.9995	3/8-16	1.12	0.85	0.610	0.756	1.65	0.188	2.860	
										1.248										
284 JM	1.2495	5.281	11.00	12.5001	0.312	14.0	4	5/8-11	0.94	1.750	1.3750	1/2-13	1.50	1	0.645	1.112	2.53	0.252	3.020	
	1.2490	5.219		2.495	0.250					1.748	1.3745				0.605	1.097		0.250	2.980	

Frame	D	2E	2F	G	H	BA	A	AA	AB	B	C	J	O	P	T
143 JP	3.50	5.50	4.00	0.39	0.34	2.36	6.62	3/4	6.50	5.83	18.24	1.66	7.48	8.27	-
145 JP	3.50	5.50	5.00	0.39	0.34	2.36	6.62	3/4	6.50	7.00	19.41	1.66	7.48	8.27	-
182 JP	4.50	7.50	4.50	0.60	0.41	2.78	9.00	1	7.90	6.74	19.82	2.13	9.09	9.53	1.77
184 JP	4.50	7.50	5.50	0.60	0.41	2.78	9.00	1	7.90	8.31	21.44	2.13	9.09	9.53	1.77
213 JP	5.25	8.50	5.50	0.72	0.41	3.80	10.24	1	8.45	8.10	23.80	2.20	10.55	10.94	1.77
284 JP	7.00	11.00	9.50	0.89	0.55	4.95	13.78	1 1/2	10.34	11.61	30.88	2.75	14.01	14.17	2.08
286 JP	7.00	11.00	11.00	0.89	0.55	4.95	13.78	1 1/2	10.34	13.11	32.38	2.75	14.01	14.17	2.08
143 JM	3.50	5.50	4.00	0.39	0.34	2.36	6.62	3/4	6.50	5.83	15.18	1.66	7.48	8.27	-
145 JM	3.50	5.50	5.00	0.39	0.34	2.36	6.62	3/4	6.50	7.00	16.35	1.66	7.48	8.27	-
182 JM	4.50	7.70	4.50	0.60	0.41	2.78	9.00	1	7.90	6.74	16.76	2.13	0.09	9.53	1.77
284 JM	7.00	11.00	9.50	0.89	0.55	4.95	13.78	1 1/2	10.34	11.61	28.00	2.75	14.01	14.17	2.08

## Design D – 3-100 HP

### Performance Data and Mounting Dimensions

HP	RPM	Frame	Slip %	Torque			FLA			LRA			Full Load		SF	lbs
				FLT lb-ft	LRT %	BDT %	230V	460V	796V	230V	460V	796V	EFF	Power Factor		
3	1140	213T	5	13.8	278	140	8.8	4.4	2.5	52.8	26.4	15	78.8	80	1.15	110
5	1135	215T	5.4	23.1	294	166	13.6	6.8	3.9	86.4	43.2	24.8	81	85	1.15	137
7.5	1115	254T	7	35.3	327	178	21.6	11	6.2	121	61.7	34.8	81	80	1.15	213
10	1125	256T	6.2	46.7	364	221	27.6	13.8	8	184	92	53	82	83	1.15	254
15	1135	284T	5.4	69.4	302	208	36	18	10.4	251	125	72	86	90	1.15	335
20	1135	286T	5.4	92.5	303	225	47	23.5	13.6	322	161	93	88	90	1.15	399
25	1140	324T	5	115.1	304	250	64	32	18.5	380	190	110	88	83	1.15	540
30	1140	326T	5	138.2	313	250	76	38	22	468	234	136	87	85	1.15	586
40	1140	365T	5	184.2	336	270	100	50	29	752	376	165	87	88	1.15	743
50	1140	404T	5	230.3	300	241	126	63	36.4	813	406	235	87	86	1.15	1030
60	1140	405T	5	276.3	376	287	156	78	45	1139	569	329	87	86	1.15	1129
75	1140	444T	5	345.4	355	267	180	90	52	1305	653	377	89	87	1.15	1568
100	1140	445T	5	460.5	374	300	240	120	69	1817	908	522	89	88	1.15	1837



Frame	Mounting				A Max	B Max	C	D	G	J	P	O	T	Shaft Extension			Keyseat			Conduit Box		Bearings	
	E	2F	H	BA										N-W	U	Min V	S	Min Es	R	AA	AB	DE	ODE
213T	4.25	5.50	0.41	3.50	10.5	9.4	19.90	5.25	0.67	1.82	10.83	10.8	1.42	3.38	1.375	3.12	0.312	2.41	1.201	1.38	8.86	6308ZC3	6208C3ZC2
215T	4.25	7.00	0.41	3.50	10.5	9.4	19.90	5.25	0.67	1.82	10.83	10.8	1.42	3.38	1.375	3.12	0.312	2.41	1.201	1.38	8.86	6308ZC3	6208C3ZC2
254T	5.00	8.25	0.53	4.25	12.5	11.1	25.25	6.25	0.79	2.37	12.60	13.0	1.80	4.00	1.625	3.75	0.375	2.91	1.416	2.05	10.00	6310ZC3	6310ZC3
256T	5.00	10.00	0.53	4.25	12.5	11.1	25.25	6.25	0.79	2.37	12.60	13.0	1.80	4.00	1.625	3.75	0.375	2.91	1.416	2.05	10.00	6310ZC3	6310ZC3
284T	5.50	9.50	0.53	4.75	14.0	12.8	28.60	7.00	0.87	2.76	14.10	14.1	2.20	4.62	1.875	4.38	0.500	3.28	1.591	2.48	10.60	6310ZC3	6210ZC3
286T	5.50	11.00	0.53	4.75	14.0	12.8	28.60	7.00	0.87	2.76	14.10	14.1	2.20	4.62	1.875	4.38	0.500	3.28	1.591	2.48	10.60	6310ZC3	6210ZC3
324T	6.25	10.50	0.66	5.25	16.0	13.8	31.52	8.00	0.99	2.77	15.60	15.9	2.60	5.25	2.125	5.00	0.500	3.91	1.845	2.48	12.80	6312C3	6212C3
326T	6.25	12.00	0.66	5.25	16.0	13.8	31.52	8.00	0.99	2.77	15.60	15.9	2.60	5.25	2.125	5.00	0.500	3.91	1.845	2.48	12.80	6312C3	6212C3
365T	7.00	12.25	0.66	5.88	18.0	16	33.99	9.00	1.11	3.15	17.40	18.2	2.60	5.88	2.357	5.62	0.625	4.28	2.021	3.52	13.60	6215C3	6312C3
404T	8.00	12.25	0.81	6.62	20.0	17.6	38.72	10.00	1.20	3.15	19.20	19.8	3.00	7.25	2.875	7.00	0.750	5.65	2.450	3.52	15.80	6316C3	6313C3
405T	8.00	13.75	0.81	6.62	20.0	17.6	38.72	10.00	1.20	3.15	19.20	19.8	3.00	7.25	2.875	7.00	0.750	5.65	2.450	3.52	15.80	6316C3	6313C3
444T	9.00	14.50	0.81	7.50	22.0	21.3	44.90	11.00	1.38	3.43	21.30	22.1	3.65	8.50	3.375	8.25	0.875	6.91	2.880	4.62	16.90	6318C3	6315C3
445T	9.00	16.50	0.81	7.50	22.0	21.3	44.90	11.00	1.38	3.43	21.30	22.1	3.65	8.50	3.375	8.25	0.875	6.91	2.880	4.62	16.90	6318C3	6315C3

General Information

### Crusher 40NFC & 33NFC Series – 250-600 HP

Performance Data and Mounting Dimensions

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

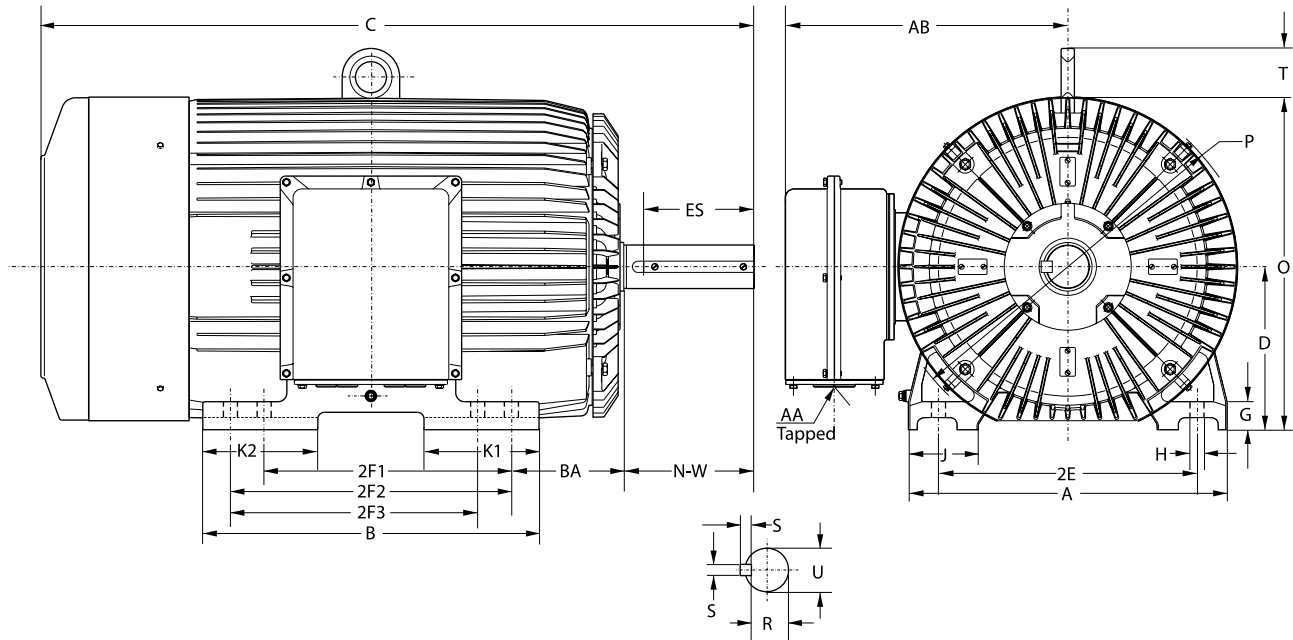
Parts and Accessories

Technical Data

HP	Series Prefix	RPM	Frame	Torque			FLA		LRA		Efficiency			Power Factor			NEMA Design	Code	SF	DE	ODE	lbs
				FLT lb-ft	LRT %	BDT %	460V	575V	460V	575V	FL	75%	50%	FL	75%	50%						
250	40NFC	1189	449T	1105	220	210	305	244	2100	1680	95.0	94.9	93.9	81	80	78	C	H	1.15	NU319	6314C3	2645
300	40NFC	1787	449T	882	240	230	347	278	2600	2080	95.4	95.4	95.1	85	84	79	C	H	1.15	NU319	6314C3	2665
	40NFC	1188	449T	1326	230	210	368	294	2550	2040	95.0	95.0	94.8	80	77	68	C	H	1.15	NU319	6314C3	2830
350	40NFC	1787	449T	1029	230	240	400	320	3050	2440	95.4	95.4	95.1	86	84	80	C	H	1.15	NU319	6314C3	2900
	33NFC	1190	587UZ	1545	219	277	401	321	2485	1988	95.0	94.9	94.0	86	83	74	C	G	1.15	NU324	6324C3	3877
400	40NFC	1785	449T	1178	200	200	452	362	2983	2386	95.2	95.4	95.1	87	86	84	C	H	1.0	NU319	6314C3	2900
	33NFC	1790	587UZ	1174	208	258	436	349	2766	2213	95.5	95.9	95.1	90	88	83	C	F	1.15	NU324	6324C3	3877
500	33NFC	1190	587UZ	1765	206	259	458	366	2678	2142	95.0	95.0	94.0	86	84	76	C	F	1.15	NU324	6324C3	4200
	33NFC	1790	588UZ	1467	206	272	545	436	3436	2749	95.5	95.2	94.5	90	89	84	C	F	1.15	NU324	6324C3	4300
600	33NFC	1190	588UZ	2207	218	264	573	458	3449	2759	95.0	95.1	94.2	86	84	76	C	F	1.15	NU324	6324C3	4420
	33NFC	1790	588UZ	1760	210	268	654	523	4106	3285	95.5	95.3	94.6	90	89	84	C	F	1.15	NU324	6324C3	4421

### Crusher 40NFC Series – 449T-587 Footed

Mounting Dimensions

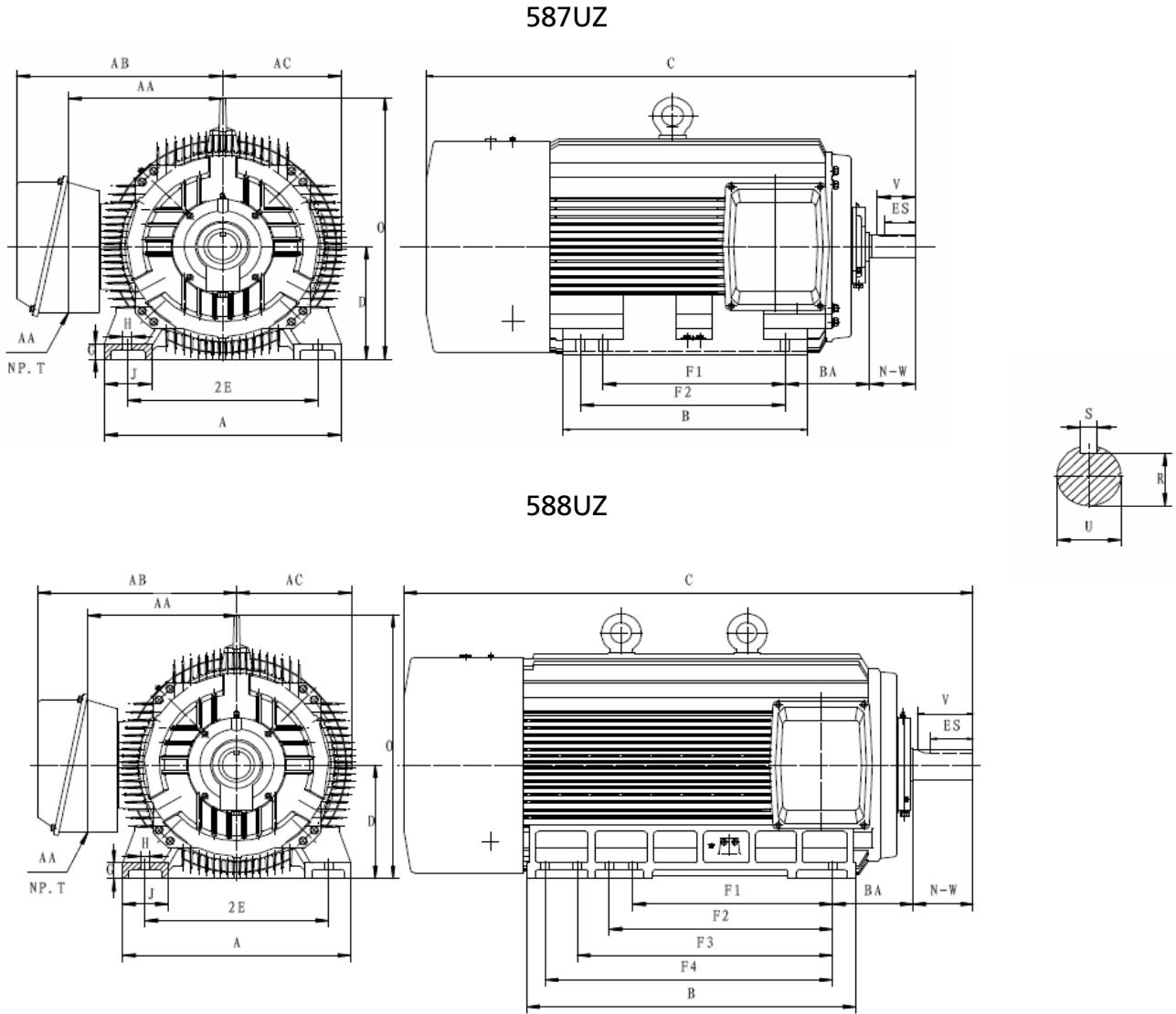


Frame	# of Poles	Mounting Dimensions											Overall Dimensions												
		D	2E	2F1	2F2	2F3	G	H	Shaft End					A	AA	AB	B	C	J	K1	K2	O	P	T	
449T	4,6	11	18	20	25	20	1.55	0.81	7.5	7.87	8.5	2.88	0.875	3.375	21.97	2 X 3	23.85	29.72	55.1	5.2	9.72	9.72	22.9	25	4.66
587	4,6	14.5	23	22	25	-	2.48	1.25	10	9.842	11.625	3.309	1	3.875	28.34	2 X 3	25.12	29.92	63.5	6.22	7.28	10.24	33.94	30.6	4.827

449T Base suitable for 447T Frame mounting.  
587 Base suitable for 586 Frame mounting (F1 position only).

## Crusher 33NFC Series – 587UZ-588UZ Footed

### Mounting Dimensions



Frame	# of Poles	2E	F1	F2	F3	F4	H	G	J	A	B	O	D	BA	AB	AC	AA	U	R	S	N-W	ES	V	C
587UZ	4,6,8	23	25	28	—	—	1.1	2	5.7	28.6	29.53	33.5	14.5	10	25	14.37	18.11	4.375	3.819	1	11.6	10	10.5	65
588UZ	4,6,8	23	25	28	32	36	1.1	2	5.7	28.6	41.14	33.5	14.5	10	25	14.37	18.11	4.375	3.819	1	11.6	10	10.5	77

General Information

### Premium Brake 20N Series – 1-30 HP

#### Performance Data

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories

Technical Data

HP	RPM	Frame	Torque				FLA			LRA		Efficiency			Power Factor			NEMA Design	Code	SF	lbs	Brake Type
			FLT lb-ft	BT* lb-ft	LRT %	BDT %	460V	575V	208V	460V	575V	FL	75%	50%	FL	75%	50%					
1	1765	143T	3	11.8	300	320	1.4	1.1	3.1	12.9	10.3	85.5	84.5	81.3	78	70	57	B	M	1.4	53	HPS10
	1160	145T	4.5	11.8	240	300	1.7	1.4	3.8	10	8	82.5	81.9	78.6	68	59	46	B	K	1.4	55	HPS10
	3540	143T	2.2	11.8	350	410	2.1	1.7	4.6	20	16	84.5	83.2	79.8	78	69	57	B	M	1.4	56	HPS10
1.5	1750	145T	4.5	11.8	300	400	2	1.6	4.4	16.6	13.3	87	86.8	85	79	72	59	B	K	1.4	57	HPS10
	1170	182T	6.7	44.2	190	280	2.4	1.9	5.3	14	11.2	87.5	86.9	84.5	68	59	47	B	J	1.4	85	HPS14
	3525	145T	3	11.8	360	400	2.7	2.2	6.0	25.4	20.3	86	85.7	83.3	82	75	62	B	L	1.4	57	HPS10
2	1745	145T	6	11.8	260	340	2.6	2.1	5.8	19.2	15.4	86.5	87.1	85.8	83	77	64	B	J	1.4	59	HPS10
	1170	184T	9	44.2	200	300	3	2.4	6.6	25	20	88.5	88.6	86.9	72	64	51	B	L	1.4	98	HPS14
	3500	182T	4.5	44.2	310	320	4	3.2	8.8	32	25.6	86.5	86.4	84.4	82	76	65	B	K	1.4	76	HPS14
3	1775	182T	8.9	44.2	320	400	4.2	3.4	9.3	38	30.4	89.5	88.5	85.8	75	67	54	A	M	1.4	102	HPS14
	1165	213T	13.5	59	260	360	4.2	3.4	9.3	32	25.6	89.5	89.5	88	74	68	56	B	K	1.4	205	HPS16
	3535	184T	7.4	44.2	450	530	6.2	5.0	13.7	73	58.4	89	88.6	86.7	85	80	68	A	N	1.4	102	HPS14
5	1770	184T	14.8	44.2	300	380	6.7	5.4	14.8	61	48.8	89.5	89.2	87.6	78	71	58	A	L	1.3	108	HPS14
	1170	215T	22.4	59	250	350	7	5.6	15.5	46	36.8	89.5	89.6	88.2	75	69	57	B	J	1.3	220	HPS16
	3525	213T	11.2	59	290	315	8.5	6.8	18.8	76	60.8	90	90	88.7	92	89	81	A	K	1.3	159	HPS16
7.5	1765	213T	22.3	59	240	290	9.3	7.4	20.6	71	56.8	91.7	91.6	90.5	82	78	67	A	J	1.3	167	HPS16
	1185	254T	33.2	111	320	350	10.4	8.3	23.0	77.5	62	91	90.6	88.6	74	67	54	A	K	1.3	321	HPS18
	3535	215T	14.8	59	300	335	11.4	9.1	25.2	93	74.4	90.2	90.4	89.3	91	88	80	A	J	1.3	173	HPS16
10	1770	215T	29.6	59	230	280	12.5	10.0	27.6	87	69.6	91.7	91.7	90.4	82	77	66	A	H	1.3	185	HPS16
	1180	256T	44.5	111	290	330	13.4	10.7	29.6	94	75.2	91	90.8	89.2	77	70	58	A	J	1.3	363	HPS18
	3540	254T	22.3	111	240	250	17.6	14.1	38.9	112	90	91.7	91.8	90.5	87	85	77	B	G	1.3	258	HPS18
15	1775	254T	44.3	111	380	440	17.3	13.8	38.3	168	134.4	92.4	92	90.7	88	84	76	A	K	1.3	301	HPS18
	1185	284T	66.4	177	470	380	19.5	15.6	43.1	180	144	91.7	91.2	89	79	73	61	A	L	1.3	371	HPS20
	3540	256T	29.7	111	230	260	22.9	18.3	50.6	138	110	92	92.4	91.7	89	88	82	B	F	1.3	306	HPS18
20	1775	256T	59.1	111	380	450	22.9	18.3	50.6	230	184	93	92.7	91.4	88	84	76	A	L	1.2	390	HPS18
	1185	286T	88.5	177	380	320	25.5	20.4	56.4	221	177	91.7	91.1	89.1	80	74	63	A	L	1.2	421	HPS20
	3555	284TS	36.9	177	260	300	29.5	23.6	65.2	205	164	92.4	92.4	91.3	86	82	74	A	H	1.2	348	HPS20
25	1780	284T	73.7	177	380	420	30.5	24.4	67.5	300	240	93.6	93.1	91.6	82	76	66	A	L	1.2	397	HPS20
	3540	286TS	44.5	177	250	300	35.2	28.2	77.8	215	172	91.7	92	91.2	87	85	80	A	G	1.2	390	HPS20
	1780	286T	88.4	177	370	390	37.5	30.0	82.9	350	280	93.6	93	91.3	80	73	61	A	L	1.2	441	HPS20

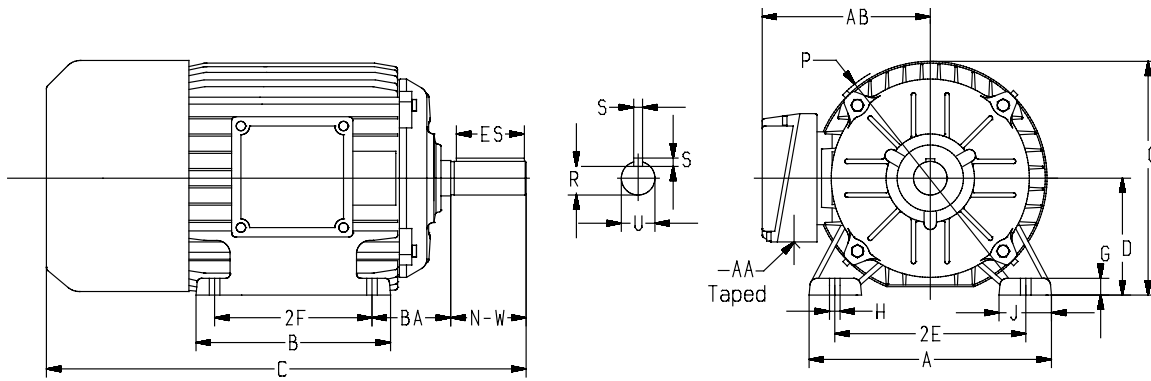
\* BT = Break Torque in lb-ft



# Premium Brake 20N Series – 143T-286TS Footed

## Mounting Dimensions

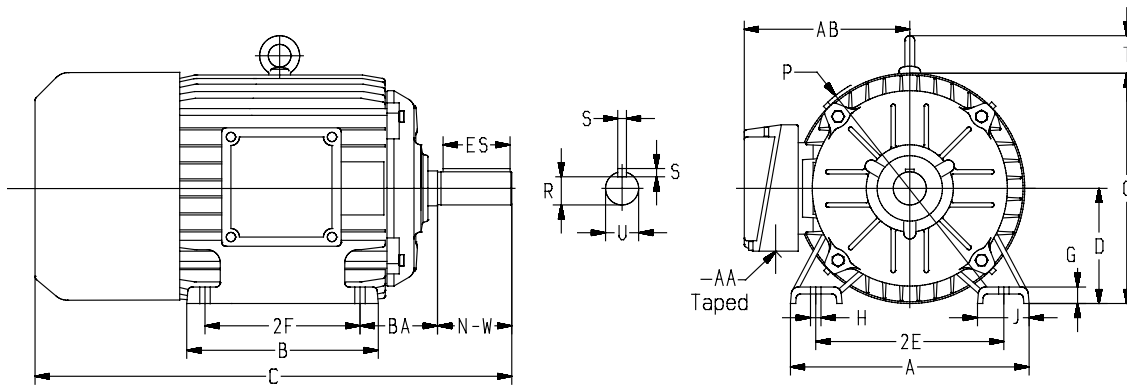
### 143T-145T



Frame	Mounting Dimensions											Overall Dimensions								Bearing
	A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	AB	
143T	6.62	5.83	3.50	5.50	4.00	0.34	0.771	0.875	2.25	3/4	2.25	1.52	17.31	0.39	1.66	7.48	8.27	0.188	6.50	6205 2Z
145T	6.62	7.00	3.50	5.50	5.00	0.34	0.771	0.875	2.25	3/4	2.25	1.52	18.27	0.39	1.66	7.48	8.27	0.188	6.50	6205 2Z

Units in inches. Manual release is located on the top of the fan guard and has a height of 3.5 inches from the fan guard to the handle.

### 182T-286TS



Frame	Mounting Dimensions											Overall dimensions									Bearing
	A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	T	AB	
182T	9.00	6.74	4.50	7.50	4.50	0.41	0.986	1.125	2.75	1	2.75	1.94	22.21	0.60	2.13	9.09	9.53	0.250	1.77	7.90	6306 2Z
184T	9.00	8.31	4.50	7.50	5.50	0.41	0.986	1.125	2.75	1	2.75	1.94	22.17	0.60	2.13	9.09	9.53	0.250	1.77	7.90	6306 2Z
213T	10.24	8.10	5.25	8.50	5.50	0.41	1.201	1.375	3.38	1	3.50	2.55	23.83	0.72	2.20	10.55	10.94	0.312	1.77	8.45	6308/6 2Z
215T	10.24	9.60	5.25	8.50	7.00	0.41	1.201	1.375	3.38	1	3.50	2.55	27.45	0.72	2.20	10.55	10.94	0.312	1.77	8.45	6308/6 2Z
254T	12.28	9.92	6.25	10.00	8.25	0.55	1.416	1.625	4.00	1 1/4	4.25	3.11	30.31	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
256T	12.28	11.65	6.25	10.00	10.00	0.55	1.416	1.625	4.00	1 1/4	4.25	3.11	32.08	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
284T	13.78	11.61	7.00	11.00	9.50	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	36.46	0.89	2.75	14.01	14.17	0.500	2.08	10.34	6311 2Z
284TS	13.78	11.61	7.00	11.00	9.50	0.55	1.416	1.625	3.25	1 1/2	4.75	2.10	35.16	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z
286T	13.78	13.11	7.00	11.00	11.00	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	36.54	0.89	2.75	14.01	14.17	0.500	2.08	10.34	6311 2Z
286TS	13.78	13.11	7.00	11.00	11.00	0.55	1.416	1.625	3.25	1 1/2	4.75	2.10	34.72	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z

Units in inches. Manual release is located on the top of the fan guard and has a height of 3.5 inches from the fan guard to the handle.

General Information

### Premium Brake 20N Series – 143TC-286TSC C-Face Mounting Dimensions

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Roller Steel Motors

Stainless Steel Washdown Motors

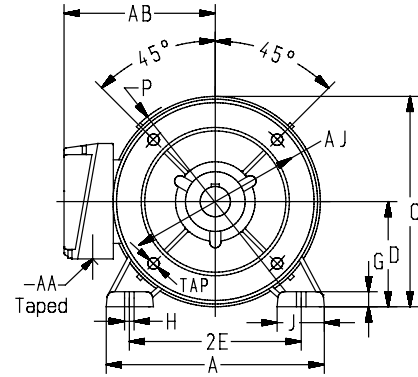
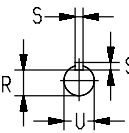
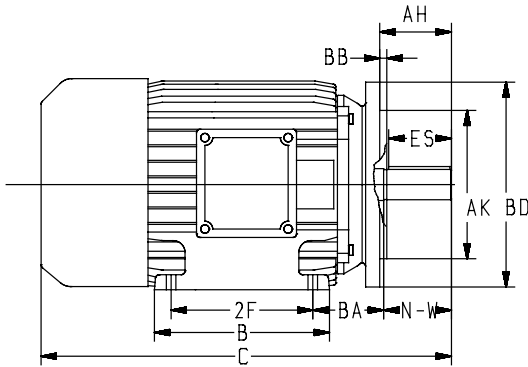
Pump Motors

Brake Motors

Parts and Accessories

Technical Data

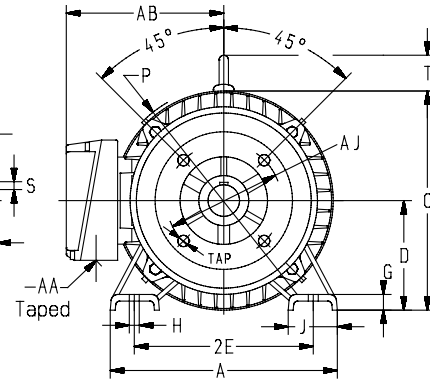
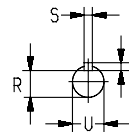
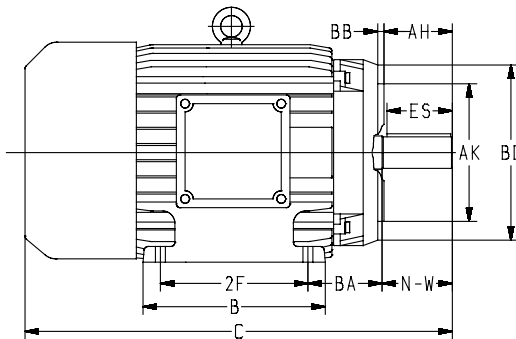
#### 143TC-145TC



Frame	Mounting Dimensions											Overall Dimensions								Bearing
	A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	AB	
143TC	6.62	5.83	3.50	5.50	4.00	0.34	0.771	0.875	2.25	3/4	2.25	1.52	17.31	0.39	1.66	7.48	8.27	0.188	6.50	6205 2Z
145TC	6.62	7.00	3.50	5.50	5.00	0.34	0.771	0.875	2.25	3/4	2.25	1.52	18.27	0.39	1.66	7.48	8.27	0.188	6.50	6205 2Z

Units in inches. Manual release is located on the top of the fan guard and has a height of 3.5 inches from the fan guard to the handle.

#### 182TC-286TSC



Frame	Mounting Dimensions											Overall dimensions								Bearing	
	A	B	D	2E	2F	H	R	U	N-W	AA	BA	ES	C	G	J	O	P	S	T		AB
182TC	9.00	6.74	4.50	7.50	4.50	0.41	0.986	1.125	2.75	1	2.75	1.94	22.21	0.60	2.13	9.09	9.53	0.250	1.77	7.90	6306 2Z
184TC	9.00	8.31	4.50	7.50	5.50	0.41	0.986	1.125	2.75	1	2.75	1.94	22.17	0.60	2.13	9.09	9.53	0.250	1.77	7.90	6306 2Z
213TC	10.24	8.10	5.25	8.50	5.50	0.41	1.201	1.375	3.38	1	3.50	2.55	23.83	0.72	2.20	10.55	10.94	0.312	1.77	8.45	6308/6 2Z
215TC	10.24	9.60	5.25	8.50	7.00	0.41	1.201	1.375	3.38	1	3.50	2.55	27.45	0.72	2.20	10.55	10.94	0.312	1.77	8.45	6308/6 2Z
254TC	12.28	9.92	6.25	10.00	8.25	0.55	1.416	1.625	4.00	1 1/4	4.25	3.11	30.31	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
256TC	12.28	11.65	6.25	10.00	10.00	0.55	1.416	1.625	4.00	1 1/4	4.25	3.11	32.08	0.58	2.36	13.18	14.17	0.375	2.08	10.08	6309 2Z
284TC	13.78	11.61	7.00	11.00	9.50	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	36.46	0.89	2.75	14.01	14.17	0.500	2.08	10.34	6311 2Z
284TSC	13.78	11.61	7.00	11.00	9.50	0.55	1.416	1.625	3.25	1 1/2	4.75	2.10	35.16	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z
286TC	13.78	13.11	7.00	11.00	11.00	0.55	1.591	1.875	4.62	1 1/2	4.75	3.53	36.54	0.89	2.75	14.01	14.17	0.500	2.08	10.34	6311 2Z
286TSC	13.78	13.11	7.00	11.00	11.00	0.55	1.416	1.625	3.25	1 1/2	4.75	2.10	34.72	0.89	2.75	14.01	14.17	0.375	2.08	10.34	6311 2Z

Units in inches. Manual release is located on the top of the fan guard and has a height of 3.5 inches from the fan guard to the handle.

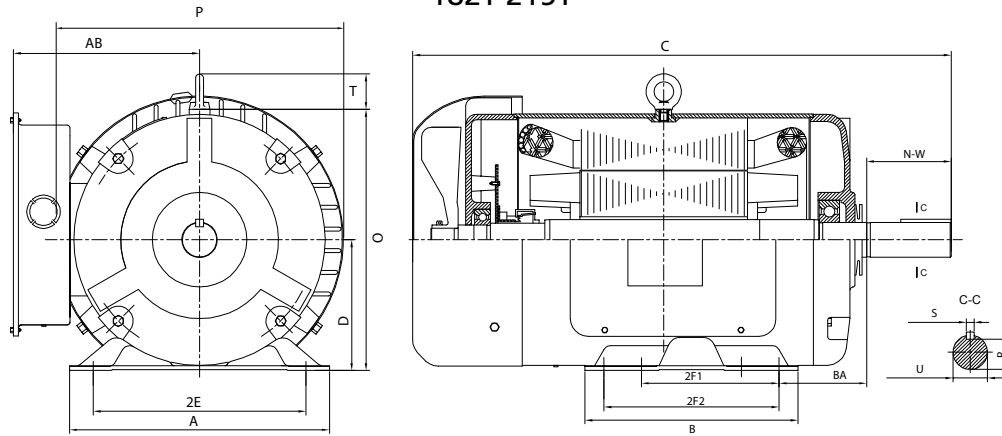
# High Torque Single Phase Rolled Steel 36T Series – 1-Phase

NEMA AC Foot Mounted and C-Face Performance Data and Mounting Dimensions

HP	RPM	Frame	Volt	Phase	HZ	Full Load Amps	LRT %	BDT %	LRA %	EFF %	PF %	lbs	Encl	Start Cap uF/350V	Run Cap uF/450V
3	3475	182T/TC	208-230/460V	1	60	14.0-12.4/6.3	234	150	641	79.4	99	88	TEFC	300	40
	1735	182T/TC	208-230/460V	1	60	14.5-12.6/6.4	295	160	695	81.7	95	92	TEFC	350	30
5	3490	184T/TC	208-230/460V	1	60	23.0-20.0/10.0	157	170	503	82.5	99	95	TEFC	400	50
	1740	184T/TC	208-230/460V	1	60	22.5-20.0/10.0	270	150	663	83.8	95	110	TEFC	350	40
7.5	3490	213T/TC	208-230/460V	1	60	31.5-29.0/15.0	314	190	616	83.5	99	123	TEFC	500	60
	1740	213T/TC	208-230/460V	1	60	32.8-30.0/15.2	340	180	783	84.5	98	143	TEFC	650	60
10	1738	215T/TC	208-230/460V	1	60	40.2-38.2/19.5	299	170	684	88.7	97	161	TEFC	450 (x2)*	50 (x2)*

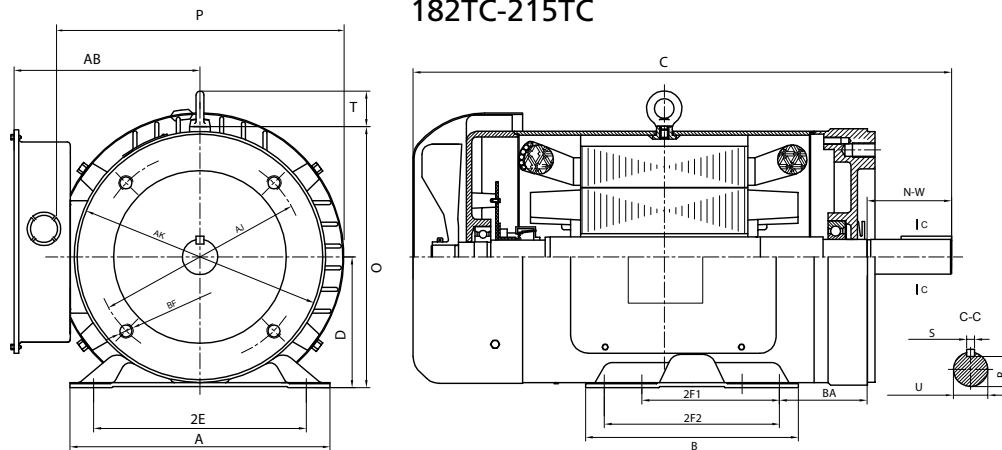
\* (2) capacitors needed per motor.

## 182T-215T



Frame	AB	T	O	2E	A	P	D	C	2F1	2F2	B	BA	N-W	S	R	U
182T	6.7	2	9.3	7.5	8.7	9	4.5	17	4.5	5.5	6.7	2.75	2.75	0.25	0.98	1.125
184T	6.7	2	9.3	7.5	8.7	9	4.5	18	4.5	5.5	6.7	2.75	2.75	0.25	0.98	1.125
213T	7.7	2	11	8.5	10	12	5.25	20	5.5	7	10	3.5	3.38	0.312	1.20	1.375
215T	7.7	2	11	8.5	10	12	5.25	20	5.5	7	10	3.5	3.38	0.312	1.20	1.375

## 182TC-215TC



Frame	AB	T	O	2E	A	P	D	C	2F1	2F2	B	BA	N-W	S	R	U	AJ	AK	BF
182TC	6.7	2	9.3	7.5	8.7	9	4.5	17	4.5	5.5	6.7	2.75	2.75	0.25	0.98	1.125	7.25	8.327	1/2-13UNC
184TC	6.7	2	9.3	7.5	8.7	9	4.5	18	4.5	5.5	6.7	2.75	2.75	0.25	0.98	1.125	7.25	8.327	1/2-13UNC
213TC	7.7	2	11	8.5	10	12	5.25	20	5.5	7	10	3.5	3.38	0.312	1.20	1.375	7.25	8.5	1/2-13UNC
215TC	7.7	2	11	8.5	10	12	5.25	20	5.5	7	10	3.5	3.38	0.312	1.20	1.375	7.25	8.5	1/2-13UNC

General Information

### 56C Frame Rolled Steel – 1-Phase and 3-Phase

NEMA AC TEFC Footed and Footless Performance Data and Mounting Dimensions

Premium Efficient Motors

#### 1-Phase With or Without Thermal Protection and Manual Reset

HP	RPM	Frame	Phase	Volt	HZ	Amps 230V	LRT %	BDT %	LRA %	EFF %	PF %	C DIM	lbs
1/3	3450	56C	1	115/230	60	2.4	300	180	700	57	82	10.95	23.2
	1720	56C	1	115/230	60	3	280	180	700	60	59	10.95	23.2
1/2	3450	56C	1	115/230	60	3.1	280	180	700	63	83	10.95	24.3
	1720	56C	1	115/230	60	4	250	180	700	62	65	10.95	24.3
3/4	3450	56C	1	115/230	60	4.5	280	180	700	64	83	10.95	26.5
	1720	56C	1	115/230	60	4.6	250	180	700	73	71	11.42	31
1	3450	56C	1	115/230	60	6.2	250	180	700	64	83	11.42	32
	1720	56C	1	115/230	60	6.1	250	180	700	73	73	11.90	36.4
1.5	3450	56C	1	115/230	60	8.7	250	180	700	66	84	11.90	39.7
	1720	56C	1	115/230	60	8.4	250	180	700	74	77	12.90	40.8
2	3450	56HC	1	115/230	60	10.8	250	180	700	72	84	12.90	43
	1720	56HC	1	115/230	60	9	170	170	600	76	95	12.90	43

Severe & Crusher Duty Motors

Metric IEC Motors

#### 3-Phase

NEMA PREMIUM	HP	RPM	Frame	Phase	Volt	HZ	Amps 460V	LRT %	BDT %	LRA %	EFF %	PF %	C DIM	lbs
-	1/3	3400	56C	3	230/460	60	0.65	400	420	700	59	83	10.95	21
		1700	56C	3	230/460	60	0.5	280	320	700	79	81	10.95	20.5
-	1/2	3400	56C	3	230/460	60	0.88	400	400	700	62	85	10.95	22.1
		1700	56C	3	230/460	60	0.9	260	280	700	71	75	10.95	21.2
-	3/4	3400	56C	3	230/460	60	1.2	380	390	700	69	84	10.95	23.4
		1700	56C	3	230/460	60	1.3	270	320	700	72	76	10.95	22.7
P	1	3450	56HC	3	230/460	60	1.3	270	280	760	80	89	13.2	26
PA		3520	56HC	3	230/460	60	1.8	280	390	620	77	75	12.8	27
P		1750	56HC	3	230/460	60	1.5	370	530	990	85.5	71	13.2	32
PA		1760	56HC	3	230/460	60	2	330	350	900	84	80	12.8	29
P	1.5	3450	56HC	3	230/460	60	1.9	340	420	1000	84	88	13.2	30
PA		3520	56HC	3	230/460	60	2.5	280	320	890	85.5	83	12.8	32
P		1750	56HC	3	230/460	60	2.2	390	480	950	86.5	73	13.2	33
PA		1765	56HC	3	230/460	60	3.8	320	300	860	86.5	89	12.8	43
P	2	3450	56HC	3	230/460	60	2.5	360	390	1090	85.5	87	13.2	32
PA		3520	56HC	3	230/460	60	1.5	350	450	890	85.5	64	12.8	34
P		1750	56HC	3	230/460	60	2.7	310	400	830	86.5	80	13.9	37
PA		1760	56HC	3	230/460	60	2.2	380	400	970	86.5	62	12.8	37
P	3	3450	56HC	3	230/460	60	3.6	350	350	1030	86.5	90	13.9	39
PA		3480	56HC	3	230/460	60	3	290	350	730	86.5	70	12.8	41

"P" or "PA" = part number suffixes for Premium Efficient motors (ex: 38CF-3-1-18P or 38CF-3-1-18PA)  
230/460V suitable at 208V

Roller Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

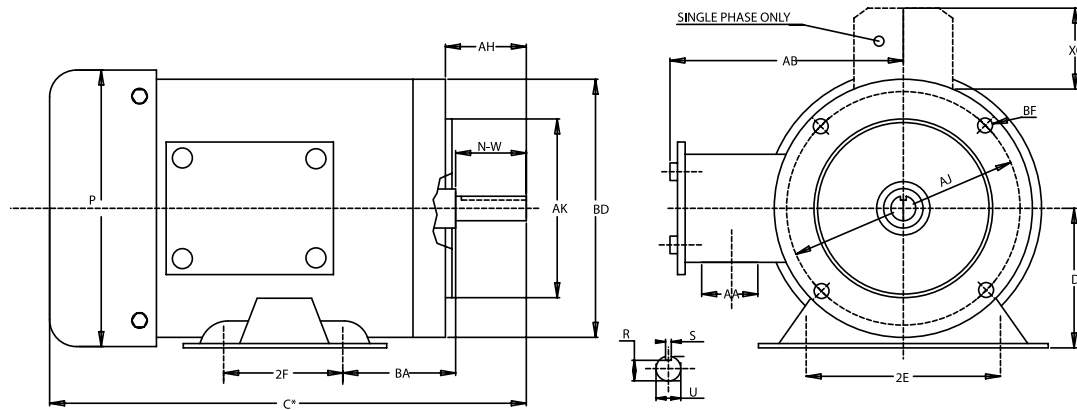
Parts and Accessories

Technical Data

## 56C Frame Rolled Steel – 1-Phase and 3-Phase

NEMA AC TEFC Footed and Footless Mounting Dimensions

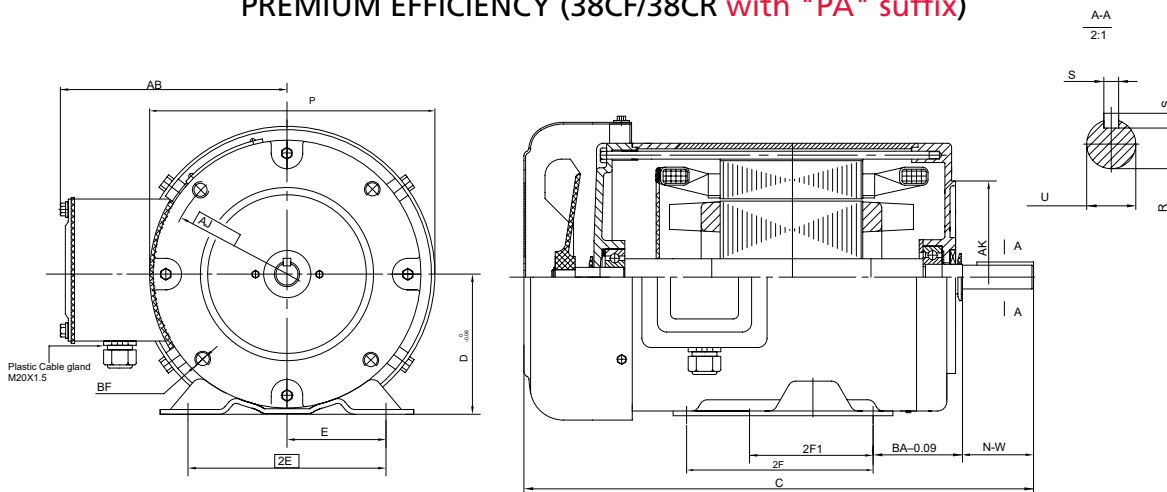
STANDARD EFFICIENCY (38CF/38CR **without part # suffix**)  
and PREMIUM EFFICIENCY (38CF/38CR **with "P" suffix**)



Frame	PH	D	2E	2F	BA	N-W	R	S	U	AH	AJ	AK	BF	AA	AB	BD	P	X0
56C	1	3.5	4.88	3	2.75	1-7/8	33/64	3/16	5/8	2 1/16	5-7/8	4 1/2	3/8-16	0.87	5 5/16	6 19/32	7 1/10	1.72
56C	3	3.5	4.88	3	2.75	1-7/8	33/64	3/16	5/8	2 1/16	5-7/8	4 1/2	3/8-16	0.87	5 5/16	6 19/32	7 1/10	-

NOTE: Drawing reflects 38CF Footed C-Face 56C motors without a part number suffix (ex: 38CF-3-1-18) and with a "P" suffix (ex: 38CF-3-1-18P).  
38CR Round Body C-Face 56C motors without a part number suffix and with a "P" suffix have the same dimensions, but no feet.  
C Dimension included in performance data.  
2 HP 1-Phase motor has 2 capacitors.

### PREMIUM EFFICIENCY (38CF/38CR **with "PA" suffix**)



Frame	PH	D	2E	2F	2F1	BA	N-W	R	S	U	AJ	AK	BF	AB	P	E	C
56C	3	3.5	4.8	5	3	2.75	1.88	0.517	0.188	0.625	5.875	4.5	3/8-16UNC-2B	5.5	7	2.44	12.8

NOTE: Drawing reflects 38CF Footed C-Face 56C premium motors with "PA" part number suffix (ex: 38CF-3-1-18PA).  
38CR Round Body C-Face 56C motors with "PA" part number suffix have the same dimensions, but no feet.

General Information

### 56C Frame Stainless Steel – 1-Phase and 3-Phase

NEMA AC Footed and Footless Performance Data and Mounting Dimensions

Premium Efficient Motors

#### 1-Phase 56C Frame Stainless Steel

HP	RPM	Frame	Volt	Phase	HZ	Amps	LRT %	BDT %	LRA %	EFF %	PF %	C DIM	lbs	Encl
1/2	3450	56C	115/230	1	60	6.2/3.1	360	180	658	63	83	10.6	24	TEFC
	1725	56C	115/230	1	60	8.2/4.1	320	220	512	61	65	11	24	TEFC
3/4	3450	56C	115/230	1	60	9/4.5	310	170	587	63	84	11	27	TEFC
	1725	56C	115/230	1	60	9.8/4.9	280	220	612	72	68	11.7	24	TEFC
1	3450	56C	115/230	1	60	12.4/6.2	270	184	709	64	84	11.7	32	TEFC
	1725	56C	115/230	1	60	13.6/6.8	270	230	618	69	69	12.2	33	TEFC
1.5	3450	56C	115/230	1	60	17.6/8.8	270	190	647	65	84	12.2	35	TEFC
	1725	56C	115/230	1	60	19/9.5	250	220	663	73	69	13.1	39	TEFC
2	3450	56HC	115/230	1	60	21.6/10.8	240	210	759	72	84	14	50	TEFC
	1725	56HC	115/230	1	60	18/9	190	190	733	76	95	14	48	TEFC

Metric IEC Motors

#### 3-Phase 56C Frame Stainless Steel

NEMA <sup>†</sup> PREMIUM	HP	RPM	Frame	Volt	Phase	HZ	Amps	LRT %	BDT %	LRA %	EFF %	PF %	C DIM	lbs	Encl
-	1/3	3400	56C	230/460	3	60	1.16/0.58	200	221	568	67	88	8.9	23	TENV
		1700	56C	230/460	3	60	1.3/0.65	320	380	785	72	66	9.4	22	TENV
-	1/2	3400	56C	230/460	3	60	1.6/0.8	230	250	680	75	85	8.9	25	TENV
		1700	56C	230/460	3	60	1.7/0.85	270	360	776	78	70	9.4	24	TENV
-	3/4	3400	56C	230/460	3	60	2.2/1.1	210	250	663	80	80	8.9	30	TENV
		1700	56C	230/460	3	60	2.4/1.2	270	340	825	79	75	9.4	31	TENV
P	1	3450	56HC	230/460	3	60	2.6/1.3	270	280	760	80	89	11.6	36.3	TEFC
		1750	56HC	230/460	3	60	3/1.5	370	530	990	85.5	71	13.6	44.5	TEFC
P	1.5	3450	56HC	230/460	3	60	3.8/1.9	340	420	1000	84	88	13.6	42	TEFC
		1750	56HC	230/460	3	60	4.4/2.2	390	480	950	86.5	73	13.6	47	TEFC
P	2	3450	56HC	230/460	3	60	5/2.5	360	390	1090	85.5	87	13.6	44.5	TEFC
		1750	56HC	230/460	3	60	5.4/2.7	310	400	830	86.5	80	14	52.6	TEFC
P	3	3450	56HC	230/460	3	60	7.2/3.6	350	350	1030	86.5	90	14	54.6	TEFC

<sup>†</sup>"P" type = Premium Efficient

Pump Motors

Brake Motors

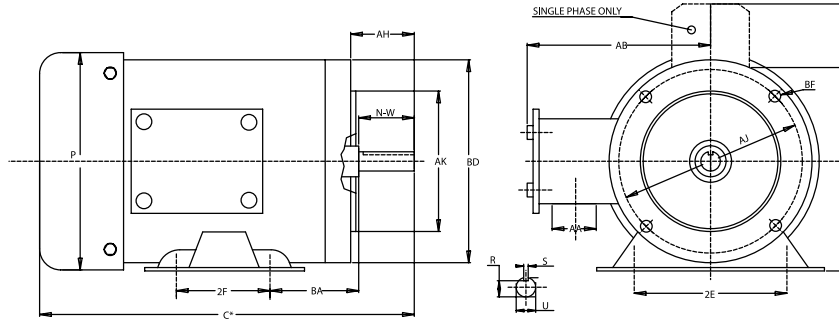
Parts and Accessories

Technical Data

# 56C Frame Stainless Steel – 1-Phase and 3-Phase

NEMA AC Footed and Footless Mounting Dimensions

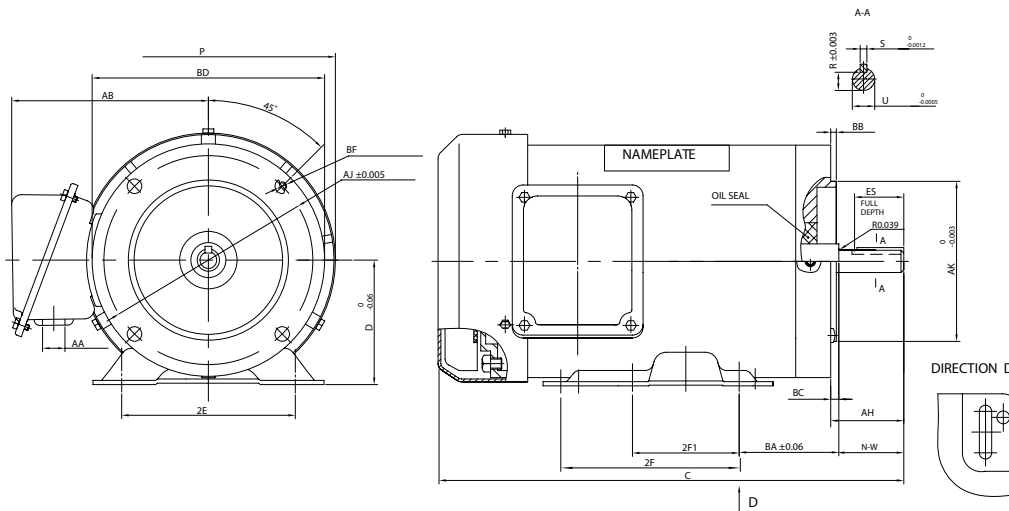
## STANDARD EFFICIENCY (39CF/39CR without "P" suffix)



Frame	PH	D	2E	2F	BA	N-W	R	S	U	AH	AJ	AK	BF	AA	AB	BD	P	X0
56C	1	3.5	4.88	3	2.75	1-7/8	33/64	3/16	5/8	2 1/16	5-7/8	4 1/2	3/8-16	0.87	5 5/16	6 19/32	7 1/10	1.72
56C	3	3.5	4.88	3	2.75	1-7/8	33/64	3/16	5/8	2 1/16	5-7/8	4 1/2	3/8-16	0.87	5 5/16	6 19/32	7 1/10	-

NOTE: Drawing reflects 39CF Footed C-Face 56C premium motors without a part number suffix.  
 39CR Round Body C-Face 56C motors without a part number suffix have the same dimensions, but no feet.  
 C Dimension included in performance data.  
 Fractional 3-Phase motors in their standard version have neither fan nor fan guard (TENV).

## PREMIUM EFFICIENCY (39CF/39CR with "P" suffix)



Frame	PH	HP	Pole	C Dim	D	2E	2F	2F1	BA	N-W	ES	R	S	U	AH	AJ	AK	BB	BC	BD	BF	AA	AB	P
56C	3	1	2P	11.6	3.5	4.88	5	3	2.75	1.875	1.41	0.512	0.189	0.625	2.06	5.875	4.5	0.12	0.185	6.6	3/8-16UNC	0.630	5.5	7.2
56C	3	1	4P	13.6	3.5	4.88	5	3	2.75	1.875	1.41	0.512	0.189	0.625	2.06	5.875	4.5	0.12	0.185	6.6	3/8-16UNC	0.630	5.5	7.2
56C	3	1.5	2P	13.6	3.5	4.88	5	3	2.75	1.875	1.41	0.512	0.189	0.625	2.06	5.875	4.5	0.12	0.185	6.6	3/8-16UNC	0.630	5.5	7.2
56C	3	1.5	2P	13.6	3.5	4.88	5	3	2.75	1.875	1.41	0.512	0.189	0.625	2.06	5.875	4.5	0.12	0.185	6.6	3/8-16UNC	0.630	5.5	7.2
56C	3	2	2P	13.6	3.5	4.88	5	3	2.75	1.875	1.41	0.512	0.189	0.625	2.06	5.875	4.5	0.12	0.185	6.6	3/8-16UNC	0.630	5.5	7.2
56C	3	2	4P	14	3.5	4.88	5	3	2.75	1.875	1.41	0.512	0.189	0.625	2.06	5.875	4.5	0.12	0.185	6.6	3/8-16UNC	0.630	5.5	7.2
56C	3	3	2P	14	3.5	4.88	5	3	2.75	1.875	1.41	0.512	0.189	0.625	2.06	5.875	4.5	0.12	0.185	6.6	3/8-16UNC	0.630	5.5	7.2

NOTE: Drawing reflects 39CF Footed C-Face 56C premium motors with "P" part number suffix.  
 39CR Round Body C-Face 56C motors with "P" part number suffix have the same dimensions, but no feet.

### Premium Stainless Steel 79 Series – 143TC-286TC 3-Phase

NEMA AC Footed and Round Body Performance Data

HP	RPM	Frame	CONN	Torque			IDLE 460V	FLA 460V	LRA 460V	Efficiency			Power Factor			NEMA Design	Code	SF	lbs
				FLT lb-ft	LRT %	BDT %				FL	75%	50%	FL	75%	50%				
1	3600	143TC	2Y/Y	1.53	185	250	0.63	15	15	77	81.1	79.73	84	84.96	75.53	B	J	1.15	44
	1800	143TC	2Y/Y	3.05	275	300	1.06	15	15	85.5	84.76	83.2	75	71.94	59.16	B	G	1.15	44
1.5	3600	143TC	2Y/Y	2.29	175	250	0.87	20	20	84	85.05	84.71	84	86.2	77.77	B	H	1.15	53
	1800	145TC	2Y/Y	4.59	250	280	1.34	20	20	86.5	86.35	85.13	79	75.5	63.49	B	G	1.15	53
2	3600	145TC	2Y/Y	3.07	170	240	0.91	25	25	85.5	86.15	86.12	86	89.24	82.72	B	G	1.15	55
	1800	145TC	2Y/Y	6.11	235	270	1.64	25	25	86.5	86.82	86.25	80	76.83	65.21	B	G	1.15	59
3	3600	182TC	2Y/Y	4.49	160	230	1.46	32	32	86.5	87.25	86.36	87	88.65	81.8	B	J	1.15	98
	1800	182TC	2Y/Y	8.94	215	250	2.53	32	32	89.5	89.42	88.18	80	75.25	63.24	B	J	1.15	100
5	3600	184TC	2Y/Y	7.51	150	215	2.26	46	46	88.5	88.91	88.63	88	89.55	83.35	B	H	1.15	107
	1800	184TC	2Y/Y	14.94	185	225	3.52	46	46	89.5	89.32	88.61	80	79.82	69.39	B	H	1.15	108
7.5	3600	213TC	2Δ/Δ	11.2	140	200	1.72	63.5	63.5	89.7	89.82	89.45	89	89.95	84.62	B	G	1.15	159
	1800	213TC	2Δ/Δ	22.41	175	215	3.65	63.5	63.5	91.7	91.63	91.12	84	81.9	73.06	B	G	1.15	171
10	3600	215TC	2Δ/Δ	14.94	135	200	1.88	81	81	90.2	90.76	90.25	90	91.66	87.78	B	G	1.15	177
	1800	215TC	2Δ/Δ	29.87	165	200	4.1	81	81	91.7	91.85	91.41	84	83.64	75.83	B	G	1.15	208
15	3600	254TC	2Δ/Δ	22.15	180	240	4.35	116	116	91	91.17	90	89	89	83.5	B	G	1.15	271
	1800	254TC	2Δ/Δ	44.68	185	220	7.75	116	116	92.4	92.42	91.61	83	81.4	71.4	B	F	1.15	296
20	3600	256TC	2Δ/Δ	29.54	160	220	5.17	145	145	91	91.25	91.21	90	90.8	87	B	G	1.15	322
	1800	256TC	2Δ/Δ	59.58	180	220	9.2	145	145	93	92.45	92.28	84	85	77.6	B	G	1.15	347
25	3600	284TSC	2Δ/Δ	36.92	170	220	6.6	182.5	182.5	91.7	92.05	91.76	89	89.9	85.1	B	F	1.15	428
	1800	284TC	2Δ/Δ	74.26	170	220	10.5	182.5	182.5	93.6	93.42	92.66	86	83.4	74.7	B	G	1.15	451
30	3600	286TSC	2Δ/Δ	44.31	170	230	7.7	217.5	217.5	91.7	92.1	92.07	89	90.2	85.7	B	E	1.15	474
	1800	286TC	2Δ/Δ	89.11	170	220	12	217.5	217.5	93.6	93.29	93.12	86	84.5	76.5	B	G	1.15	482

General  
Information

Premium  
Efficient Motors

Severe & Crusher  
Duty Motors

Metric IEC  
Motors

Roller Steel  
Motors

Stainless Steel  
Washdown Motors

Pump  
Motors

Brake  
Motors

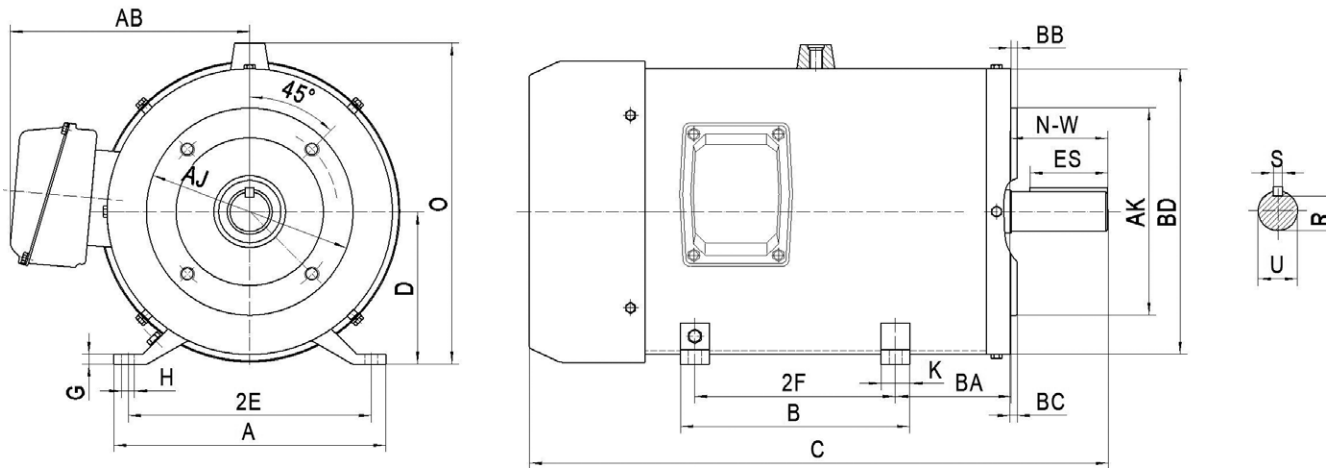
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## Premium Stainless Steel 79 Series – 143TC-286TC 3-Phase

NEMA AC Footed and Round Body Mounting Dimensions



Frame	Mounting			A	B	C	D	G	H	O	P	R	S	AB	Shaft Extension			Bearing	
	2E	2F	BA												N-W	U	V	DE	ODE
143TC	5.5	4	2.75	6.4	4.96	12.6	3.5	0.08	0.35	7	7	0.768	0.188	6.1	2.25	0.886	2	6205	6205
145TC	5.5	5	2.75	6.4	6.4	15.2	3.5	0.08	0.35	7	7	0.768	0.188	6.1	2.25	0.886	2	6205	6205
182TC	7.5	4.5	3.5	9	6.1	16	4.5	0.16	0.43	9	8.7	0.98	0.25	7.1	2.75	1.125	2.5	6306	6306
184TC	7.5	5.5	3.5	9	7.1	17	4.5	0.16	0.43	9	8.7	0.98	0.25	7.1	2.75	1.125	2.5	6306	6306
213TC	8.5	5.5	4.25	10.5	8.5	20.5	5.25	0.16	0.43	10.4	10.4	1.181	0.315	8.27	3.38	1.378	3.12	6208	6208
215T	8.5	7	4.25	10.5	8.5	22	5.25	0.16	0.43	10.4	10.4	1.181	0.315	8.27	3.38	1.378	3.12	6208	6208
254TC	10	8.25	4.75	11.2	10.6	23.8	6.25	0.39	0.53	13.2	12.5	1.417	0.375	9.84	4	1.625	3.75	6309	6309
256TC	10	10	4.75	11.2	12.36	25.4	6.25	0.39	0.53	13.2	12.5	1.417	0.375	9.84	4	1.625	3.75	6309	6309
284TSC	11	9.5	4.75	12.2	11.08	25.2	7	0.47	0.53	14.8	14	1.417	0.375	9.84	3.25	1.625	3	6310	6310
284TC	11	9.5	4.75	12.2	11.08	26.6	7	0.47	0.53	14.8	14	1.591	0.5	9.84	4.62	1.875	4.38	6310	6310
286TSC	11	11	4.75	12.2	12.57	26.2	7	0.47	0.53	14.8	14	1.417	0.375	9.84	3.25	1.625	3	6310	6310
286TC	11	11	4.75	12.2	12.57	27.6	7	0.47	0.53	14.8	14	1.591	0.5	9.84	4.62	1.875	4.38	6310	6310

Frame	AJ	AK	BA	Min BB	BC	Max BD	# of Holes	Screw	Depth of Hole	U	AH	Keyway		
												R	ES	S
143TC	5.875	4.5	2.75	0.16	+0.12	6.5	4	3/8-16	0.56	0.886	2.12	0.768	1.41	0.188
145TC	5.875	4.5	2.75	0.16	+0.12	6.5	4	3/8-16	0.56	0.886	2.12	0.768	1.41	0.188
182TC	7.25	8.5	3.5	0.25	+0.12	9	4	1/2-13	0.75	1.125	2.62	0.98	1.78	0.25
184TC	7.25	8.5	3.5	0.25	+0.12	9	4	1/2-13	0.75	1.125	2.62	0.98	1.78	0.25
213TC	7.25	8.5	4.25	0.25	+0.25	9	4	1/2-13	0.75	1.378	3.12	1.181	2.41	0.315
215T	7.25	8.5	4.25	0.25	+0.25	9	4	1/2-13	0.75	1.378	3.12	1.181	2.41	0.315
254TC	7.25	8.5	4.75	0.25	+0.25	10	4	1/2-13	0.75	1.625	3.75	1.417	2.91	0.375
256TC	7.25	8.5	4.75	0.25	+0.25	10	4	1/2-13	0.75	1.625	3.75	1.417	2.91	0.375
284TSC	9	10.5	4.75	0.25	+0.25	11.25	4	1/2-13	0.75	1.625	3	1.417	1.91	0.375
284TC	9	10.5	4.75	0.25	+0.25	11.25	4	1/2-13	0.75	1.875	4.38	1.591	3.28	0.5
286TSC	9	10.5	4.75	0.25	+0.25	11.25	4	1/2-13	0.75	1.625	3	1.417	1.91	0.375
286TC	9	10.5	4.75	0.25	+0.25	11.25	4	1/2-13	0.75	1.875	4.38	1.591	3.28	0.5

General Information

### SAE Hydraulic Pump Motors – SAE A 2-Bolt

NEMA AC Footed Performance Data

Premium Efficient Motors

HP	RPM	Frame	Phase	Torque			FLA			LRA	Efficiency	Power Factor	NEMA Design	Duty	SF	lbs
				FLT lb-ft	LRT %	BDT %	208V	230V	460V	460V						
10	1750	215YZ	3	29.21	225	250	28	25.4	12.7	88	89	82	B	30 min per hour	1.0	143
15	1750	215YZ	3	44.97	150	165	42	38	19	88	87	84	B	30 min per hour	1.0	143

Severe & Crusher Duty Motors

### SAE Hydraulic Pump Motors – SAE A 2-Bolt

NEMA AC Footed Mounting Dimensions

Metric IEC Motors

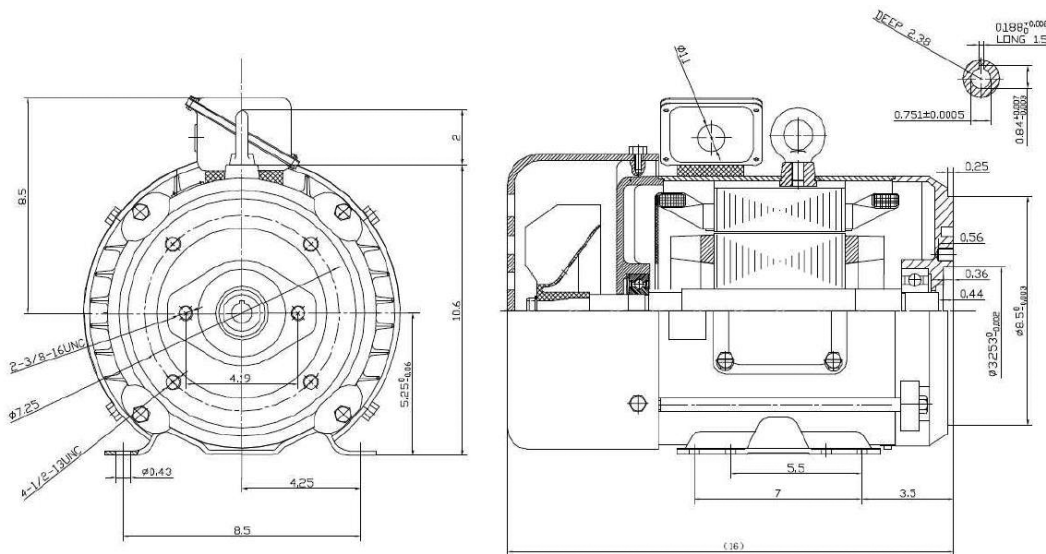
Rolled Steel Motors

Stainless Steel Washdown Motors

Pump Motors

Brake Motors

Parts and Accessories



Technical Data

# Motor Warranty, Return and Sales Policies

Elektrim Motors reserves the right to change these policies as business conditions warrant.

## Freight Policy

All electric motors are shipped FOB shipping point freight prepaid and add unless otherwise specified by the Buyer. Elektrim covers shipping and handling for standard ground delivery of regularly priced motors (excluding overstock and sale items) on a single order over \$3000.00 before tax and freight, on a carrier chosen by Elektrim, to a single destination within the continental United States. Other terms and conditions may apply for additional freight services, including, without limitation, expedited delivery, air freight, freight collect, export orders, hazardous materials, shipments outside the contiguous United States, or other special handling by the carrier. Any extra charges incurred for additional freight services must be paid by Buyer. Title and risk of loss pass to Buyer upon tender of shipment to the carrier. All Latin America export orders are shipped EX-WORKS Natick, MA or EX-WORKS Schaumburg, IL. See full Terms and Conditions for Latin American export sales.

## Damaged or Lost Shipments

In the event of damaged or lost shipments: (a) If Buyer requested freight charges via collect or third party freight, Buyer is responsible for filing claim with carrier. Elektrim is not liable for merchandise damaged or lost by carrier; (b) If Elektrim paid pre-paid or no-charge freight, receiver of Goods must have the driver note the damage or shortage on the freight bill, and Buyer must notify Elektrim within 5 business days with pictures and explanation of damages. Keep damaged product and packaging until you are advised to dispose by Elektrim. Elektrim does not recommend shipping electric motors and related products over 40lbs via UPS or FedEx Ground. Buyers choosing UPS or FedEx Ground as their carrier for Elektrim products over 40 lbs must sign a shipping waiver or ship collect or third party billing, and are responsible for filing claim with carrier in the event of damage or loss. Shipping wavier provided by Elektrim upon request.

## Motor Return Policy

Motor returns must be returned in original packaging, unused, undamaged and in saleable condition within 30 days after the date of shipment for a 20% restocking fee, unless otherwise indicated. Depending on circumstances, repackaging or other fees may apply. Proof of purchase is required in all cases, and Buyer must obtain a Returned Merchandise Authorization (RMA) from Elektrim prior to return. Buyer is responsible for freight charges on original order, and may be billed for freight paid out by Elektrim on original order. Original order freight charges are not reimbursable. Buyer is responsible for return freight and new freight charges on any replacement order. After 30 days motors cannot be returned. No credit will be issued on authorized returns due to the following conditions: (a) item has been used, and is not in resalable condition; (b) item has been modified by Buyer; (c) item has been damaged; or (d) item returned does not match item authorized for return. Unauthorized returns with no RMA and no paperwork will be processed, and no credit is due Buyer. Such returns are subject to be returned to Buyer, and freight charges for the return are the responsibility of the Buyer. In the unlikely event of motor failure, Elektrim will warrant the motor under the guidelines of the Elektrim Motor Limited Warranty and Service Policy. Elektrim does not offer stocking distributors a "stock-swap" policy, unless written authorization has been provided by Elektrim (additional terms and conditions apply).

## Motor Modification Cancellation Policy

A cancellation charge of double the modification fee will be invoiced to Buyer if a motor order is cancelled after the motor has been modified. Any modification order cancelled before modification is completed is subject to a 25% cancellation charge. Modified motors that are returned, per the terms and conditions of the Motor Return Policy, will be invoiced at double the modification fee plus an additional 10% restocking fee.

## Sourced Products

Elektrim Motors may procure products not available through the Elektrim Motors catalog or available on [www.elektrimmotors.com](http://www.elektrimmotors.com) for a Buyer from other sources ("Sourced Product(s)"). Sourced products are priced according to current market conditions on a per order basis, and are shipped FOB origin with freight and handling fee paid by Elektrim and charged to Buyer. Any charges for Other Freight Services are paid by Buyer. Special order products may require a 50% down-payment by the Buyer. **ELEKTRIM'S LIMITED WARRANTY TERMS INCLUDED IN THESE TERMS AND CONDITIONS DO NOT APPLY TO SOURCED PRODUCTS. THE PRODUCT WARRANTY PROVIDED BY THE MANUFACTURER AND/OR SUPPLIER WILL BE BUYER'S SOLE REMEDY.** All Sourced Products are sold on a "FINAL SALE" basis only, and no cancellations, returns, refunds or credits are allowed. Sourced and/or Special Order Products may be subject to advance deposits, prepayments, or other non-standard payment terms. At its discretion, Elektrim Motors may require non-cancelable purchase orders for any sourced or special order requests.

## Custom Motor Order Policy

Buyer may order custom motors ("Custom Product(s)") created to Buyer's specifications. Elektrim is not responsible for verifying or confirming the accuracy of specifications provided by Buyer to Elektrim for Custom Products. **ELEKTRIM'S LIMITED WARRANTY TERMS INCLUDED IN THESE TERMS AND CONDITIONS DO NOT APPLY TO CUSTOM PRODUCTS. THE PRODUCT WARRANTY PROVIDED BY THE MANUFACTURER AND/OR SUPPLIER WILL BE BUYER'S SOLE REMEDY.** All Custom Products are sold on a "FINAL SALE" basis only, and no cancellations, returns, refunds or credits are allowed. Buyer order products may require a 50% down-payment by the Buyer.

## Limited Warranty

Elektrim Motors and its employees are proud of our products and are committed to providing our customers and end users with the best designed and manufactured electric motors. This Limited Warranty and Service Policy describes the Elektrim warranty and warranty procedures.

**Scope of Warranty:** All Elektrim motors are warranted against defect in workmanship and materials.

**Warranty Period:** Elektrim motors are warranted for (Part Number Prefixes 20J, 20M, 20N, 31N, 32N, 34N, 40J, 40M, 40N, 60N, 77N: 36 months; 36, 38, 39, 79: 12 months) from the date of shipment to Buyer from the Elektrim warehouse or, if applicable, any consigned inventory or district warehouse. All warranty claims must be submitted to Elektrim Motors prior to expiration of the warranty period.

**Procedure to Receive Warranty Service:** Buyers must contact Elektrim Motors and receive authorization prior to obtaining warranty service. Elektrim is not liable for cost of modifications or repairs performed to Elektrim motors if warranty authorization was not obtained. Buyers seeking warranty authorization must fill out and submit to Elektrim the Motor Warranty Service Report indicating the defect or problem, a description of the way in which the motor was used, your name, address and phone number. The Warranty Service Report can be obtained by contacting Elektrim or at <https://www.toolmex.com/cb-Support/SupportDocuments.aspx>.

**Warranty Service Center Locations:** Warranty service is available for all Elektrim motors from all Elektrim Authorized Service Centers. A list of service centers is available by contacting Elektrim at 2015 S. Mitchell Blvd., Schaumburg, IL 60193, 1-855-GO-ELEKTRIM (855-463-5358) or by email at [warranty@elektrimmotors.com](mailto:warranty@elektrimmotors.com).

**Repair by Other than an Elektrim Authorized Service Center:** Buyers who are unable to take or ship the Elektrim motor to an Elektrim Authorized Service Center, or those who desire that there be made an alternative facility must contact Elektrim to receive a written authorization. Modifications or repairs performed to Elektrim motors by non-authorized service providers will void the warranty.

**Repairs or Replacement Within the Scope of the Warranty:** If an Elektrim motor is defective due to Elektrim workmanship or materials and the defect occurs during the warranty period, Elektrim will either repair the product, issue credit or replace it with a new one, whichever Elektrim believes to be appropriate under the circumstances. Elektrim will pay domestic freight on replacement motors (and only if requested by Elektrim, motors returned to Elektrim) as a result of warranty. Elektrim will not pay freight for any returned motors as a result of warranty, if the return was not requested by Elektrim in writing. **ELEKTRIM IS NOT RESPONSIBLE FOR REMOVAL AND SHIPPING OF THE ELEKTRIM MOTOR TO THE SERVICE CENTER, REINSTALLATION OF THE ELEKTRIM MOTOR UPON ITS RETURN TO THE BUYER, OR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE DEFECT, REMOVAL, REINSTALLATION, SHIPMENT OR OTHERWISE.**

**Repairs Outside the Scope of Warranty:** Problems with Elektrim motors can be due to improper maintenance, faulty installation, non-Elektrim additions or modifications, or other problems not due to defects in workmanship or materials. If the Elektrim Authorized Service Center determines that the problem with an Elektrim motor is not due to defects in workmanship or materials, then the Buyer will be responsible for the cost of any necessary repairs. Buyers not satisfied with a determination that a problem is outside warranty coverage should contact Elektrim Motors.

**Intended Use:** Elektrim motors are designed for commercial and/or industrial use.

**Product Specification:** All motor specifications, applications and other information provided in Elektrim catalogs and publications are subject to correction and change without notice and should be confirmed with Elektrim Motors prior to ordering.

**No Other Warranties and Liability Limitation:** This Limited Warranty and Service Policy represents Elektrim Motors' sole and exclusive warranty obligation with respect to Elektrim motors. Elektrim Motor's liability to a Buyer or any other person shall not exceed the Elektrim Motors sales price of the applicable motor. **ELEKTRIM DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY.**

## Authorized Service Center Policy

The requirements for becoming an Elektrim Authorized Center are as follows:

- The repair shop must be a member of EASA (any exceptions must be approved).
- The repair shop must subscribe to and implement EASA standards for testing and repair.
- The repair shop must abide by the Elektrim Authorized Service Center Policy procedures and fee schedule.

### Procedures:

1. Write or call Elektrim Motors prior to performing work on our product.
2. Once clearance is given, inspect motor for failure due to workmanship or material defect.
3. Prepare Elektrim Warranty report on motor failure cause.
4. Forward a detailed copy of report and nameplate to Elektrim for review. Actual report and nameplate will need to be in Elektrim files at 2015 S. Mitchell Blvd., Schaumburg, IL 60193.
5. Elektrim will make the final determination as to repair or replace.
6. Elektrim reserves the right to supply all motor parts necessary for motor repair.

### Fee Schedule; Frame Inspection Fee Maximum

140 frames	\$35.00	280 frames	\$60.00	440 frames	\$125.00
180 frames	\$40.00	320 frames	\$65.00	580 frames	\$150.00
210 frames	\$45.00	360 frames	\$80.00		
250 frames	\$50.00	400 frames	\$100.00		

**Comments and Questions:** We welcome comments and questions regarding our products. Please contact Customer Service at: 855-Go-Elektrim (855-463-5358) or [support@elektrimmotors.com](mailto:support@elektrimmotors.com)

Any comments, ideas, suggestions or other communications sent to Elektrim shall be and remain the exclusive property of Elektrim and can be used by Elektrim in any manner without compensation to you.

## Frequently Asked Questions – Mechanical

### On vertical mounting, is it okay to mount your motors both shaft up and down?

Yes. In general, motors up to 445T frame can be mounted vertically shaft up and down. Motors installed vertically must be protected from weather conditions. Larger motors are horizontal operation only. See individual product pages for details.

### On motors, are the fans UNI or bidirectional?

All NEMA motors are equipped with bidirectional fans.

### Is it better to install a DE roller bearing on the motors?

It depends on the application. A DE roller bearing is always preferred for belted drive applications. In direct coupling applications, always use ball bearing motors.

### What kind of bearings do you use on your motors?

32N Series motors up to 215T frame and 20, 31N and 40 Series motors up to NEMA 286T and IEC180L frame are equipped with double-shielded bearings. Larger motors have regreasable bearings. See individual product pages for details.

### What kind of grease should I use to re-grease your bearings?

We use lithium grease in our regreasable bearings, e.g. POLYREX<sup>®</sup> EM or other equivalent mineral motor grease. Please look to manual for details and regreasing schedule.

### Do I have to re-grease the bearings of a new motor?

It depends on how long the motor was stocked. Every motor with regreasable bearings which has been stocked for over 6 months has to be re-greased before usage.

### How often should I re-grease the bearings?

It depends on the motor's RPM and usage. Regreasable bearings should be re-greased according to the recommendation in the manual of that particular motor.

### Where is the junction box located on your Metric motors?

Metric IE2 and IE3 (20M) and (40M motors up to IEC180 frame) have the junction box on top of the motor. Metric (40M motors IEC200 - IEC315) have the junction box in the F2 position which is convertible to F1.

### Should the drain holes always be opened?

The drain holes have to be open when the motor is operating in a high humidity atmosphere or low temperature environment.

### What does IM B35 mean for Metric motors?

It means that the motors are equipped with D-Flange and Feet. Other descriptions are as follows: IM B3 = Footed, IM B34 = C-Face and Footed.

### At what frame does the factory begin locking the shaft before shipment?

NEMA motors starting from 320T frame and Metric motors starting from IEC200 frame have shafts locked prior to shipment.

### Do your motors have removable feet?

We offer removable feet on our motors as follows: 20N series 324T frame and up; Metric 20M and 40M series up to IEC132 frame. Metric 20M and 40M series from IEC90 - IEC112 frame also have rotatable feet.

### Do you offer brake motors with flanges?

Yes. NEMA and Metric Brake motors are offered with all the same flanges as standard motors.

### Can I convert your standard NEMA motor to F2 position?

All 31N and 32N motors can be converted to F2 position. 40N and 20N series motors up to 286T frame can be converted to F2 position. Rolled Steel and 580 frame motors are F1 only.

### Do you offer D-Flange NEMA motors?

We offer D-Flanges for 31N series motors ranging from 143TD-365TD and 20N series motors ranging from 324TD - 445TD.

### Do your motors have a threaded hole inside the end shaft?

All Metric motors have a threaded hole inside the end shaft according to IEC standard (see page 129 for details). NEMA 20N and 40N series motors 320T up to 449T frame have a M20 threaded hole.

### When are blowers required on your motors?

Blowers will be required for all constant torque applications where the turn down ration exceeds VFD capability.

## Frequently Asked Questions – Electrical

### Are your motors Inverter Rated?

Yes. All three phase motors are inverter duty rated. See individual product pages for specific inverter duty ratings for each product group.

### Are your NEMA motors suitable for Y/Delta and Part Winding starting?

Yes. In general, standard motors starting from 213T frame are suitable for Y/Delta starting at 460V. Motors up to 100HP are suitable for Part Winding at 230V and motors 125HP and up are suitable for Part Winding starting at 460V. See individual product pages for specific starting for each product group.

### Can your NEMA motors run at 208V?

NEMA Motors up to 400 frame are suitable at 208V. The connection diagram is the same as 230V. Max amps at 208V are placed on the nameplate.

### Do you offer dual-rated motors for 60Hz / 50Hz?

All 3-Phase motors are dual rated for 60/50Hz on the standard nameplate. See individual product pages for specific rating information for each product group.

### Do you offer 575V motors from stock?

Yes. NEMA motors 1-100HP and Metric motors IEC132 and larger can be re-rated to 575V with nominal HP.

### Do you offer motors with non-standard voltages and HP?

Many NEMA and metric motors can be re-rated for different voltages, HP and/or frequency based on application, duty cycle, ambient temperature and service factor required. Please contact Elektrim Motors Customer Support to discuss your special application requirements.

### What brake type do you use on your Brake motors – DC or AC?

Our Brake motors are equipped with DC disc brake with a 460V AC rectifier placed inside the junction box.

On request, the 460V AC rectifier can be replaced with a 230V AC rectifier.

### Can I order a NEMA motor with a terminal board?

Yes. We offer NEMA motors with optional terminal boards.

### Do you offer terminal boards on your Metric motors?

Yes. Elektrim Metric motors up to 112M frame are equipped with terminal boards as standard. Metric motors starting from IEC132 have 12 leads (Double Delta / Delta connection diagram at 230/460V) and can be equipped with optional terminal board.

### Do you offer motors with thermal sensors?

Explosion Proof, 20 and 40 Series motors starting from 320 frame (including Metric 200L and up) are equipped with thermistors in windings as standard. Other motors can be equipped with different thermal sensors as an option.

### Must an inductor be used between motor and drive?

Any motor connected to an inverter drive with power leads that exceed 100 ft. should have an inductor between the motor and drive.

### What kind of starter do you prefer for your motors?

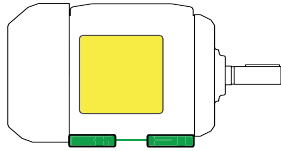
We prefer starters that include a circuit breaker, contactor and overload. All starters should be sized according to National Electrical Code.

### What are your windings made out of?

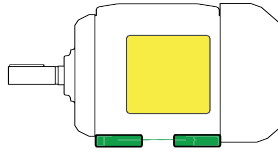
Stator windings are made out of copper. The rotor cage is made out of aluminum alloy.

## NEMA Mounting Configurations

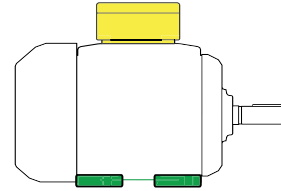
### FLOOR MOUNTINGS



F1 ASSEMBLY

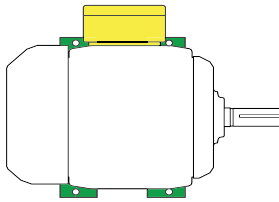


F2 ASSEMBLY

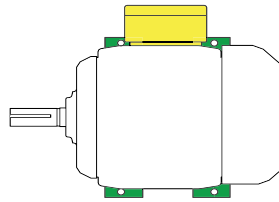


F3 ASSEMBLY

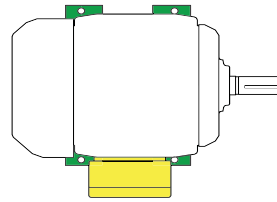
### WALL MOUNTINGS



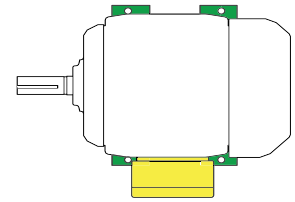
W1 ASSEMBLY



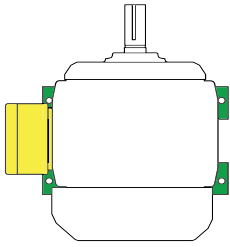
W2 ASSEMBLY



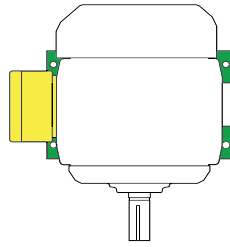
W3 ASSEMBLY



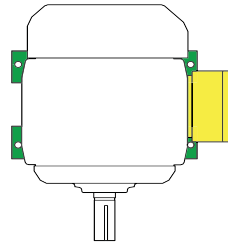
W4 ASSEMBLY



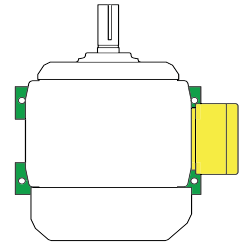
W5 ASSEMBLY



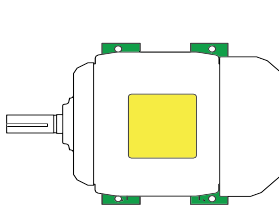
W6 ASSEMBLY



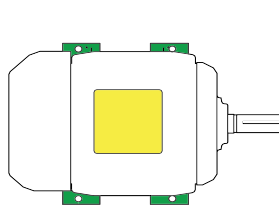
W7 ASSEMBLY



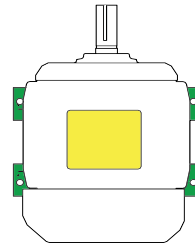
W8 ASSEMBLY



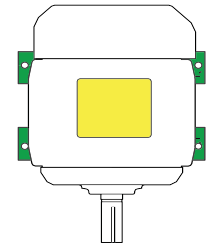
W9 ASSEMBLY



W10 ASSEMBLY

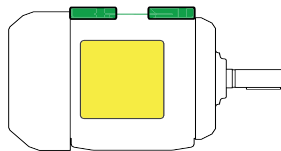


W11 ASSEMBLY

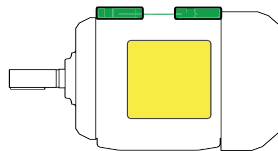


W12 ASSEMBLY

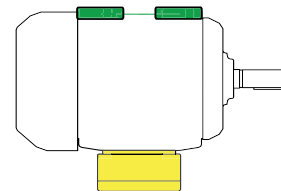
### CEILING MOUNTINGS



C1 ASSEMBLY



C2 ASSEMBLY



C3 ASSEMBLY

## IEC Mounting Configurations

General Information

Premium Efficient Motors

Severe & Crusher Duty Motors

Metric IEC Motors

Rollled Steel Motors

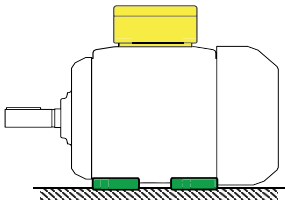
Stainless Steel Washdown Motors

Pump Motors

Brake Motors

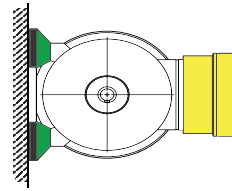
Parts and Accessories

Technical Data



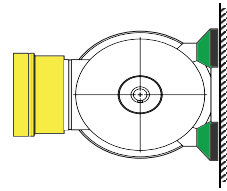
**IM B3**

Foot mounting, feet at bottom



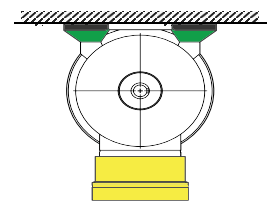
**IM B6**

Foot mounting, feet on left side (viewed from drive side)



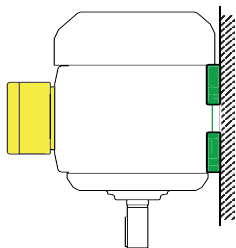
**IM B7**

Foot mounting, feet on right side (viewed from drive side)



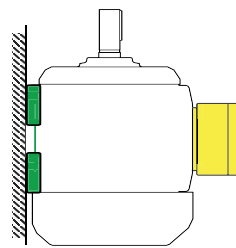
**IM B8**

Foot mounting, feet on top



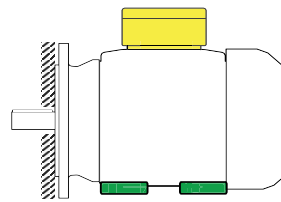
**IM V5**

Foot mounting, drive shaft at bottom



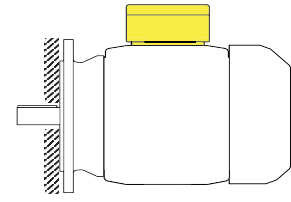
**IM V6**

Foot mounting, drive shaft at top



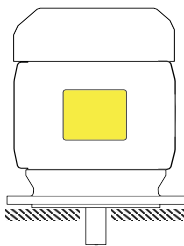
**IM B35 D-FLANGE**

Foot mounting, feet at bottom, with additional flange mounting: access from housing side



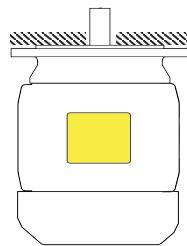
**IM B5 D-FLANGE**

Flange bearing plate on drive side, access from housing side



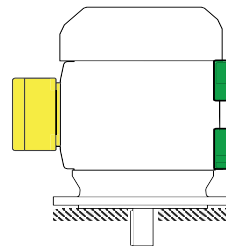
**IM V1 D-FLANGE**

Flange mounting on drive end of flange; access from housing side, drive shaft at bottom



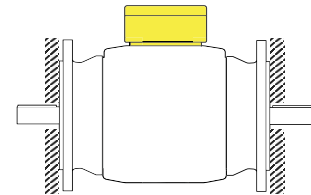
**IM V3 D-FLANGE**

Flange mounting on drive end of flange; access from housing side, drive shaft at top



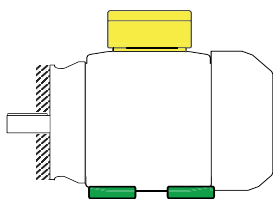
**IM V15 / IM V36 D-FLANGE**

Foot mounting with additional flange mounting on drive end of flange, drive shaft at bottom or top, with or without access from housing side



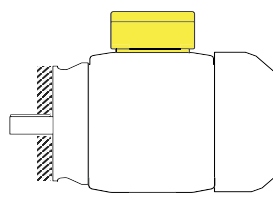
**IM B17**

Double B5 flange motor, no feet



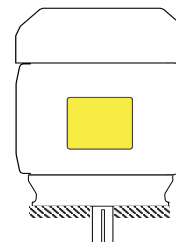
**IM B34 C-FLANGE**

Foot mounting, feet at bottom, with additional flange mounting on drive end of flange, no access from housing side



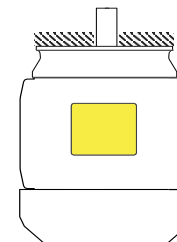
**IM B14 C-FLANGE**

Flange mounting on drive end of flange; no access from housing side



**IM V18 C-FLANGE**



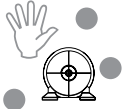







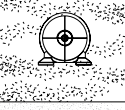
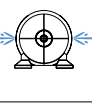
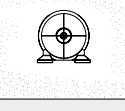



Flange mounting on drive end of flange; no access from housing side, drive shaft at bottom



**IM V19 C-FLANGE**

Flange mounting on drive end of flange; no access from housing side, drive shaft at top

### Summary Guide to Motor Protection (IP) Ratings

	First # = Protection Against Solid Objects		Second # = Protection Against Liquids	
<b>0</b>		<b>No Protection</b> No protection against contact and ingress of objects		<b>No Protection</b> No special protection
<b>1</b>		<b>&gt;1.968" (50 mm)</b> Protected against any large surface of the body (such as the hand), but no protection against deliberate contact with a body part		<b>Dripping Water</b> Protected against vertically falling drops or dripping water
<b>2</b>		<b>&gt;0.4724" (12.5 mm)</b> Protected against solid objects larger than 12.5 mm such as fingers or similarly-sized objects		<b>Dripping Water When Tilted up to 15°</b> Protected against vertically dripping water when enclosure is tilted up to 15° from its normal position
<b>3</b>		<b>&gt;0.0984" (2.5 mm)</b> Protected against tools, thick wires, etc.		<b>Spraying Water</b> Protected from spray at any angle up to 60° from vertical
<b>4</b>		<b>&gt;0.0394" (1 mm)</b> Protected against most wires, screws, etc.		<b>Splashing Water</b> Protected from splashing water from any direction
<b>5</b>		<b>Dust-Protected</b> Ingress of dust is not entirely prevented, but protected against sufficient quantity to interfere with the operation of the equipment.		<b>Water Jets</b> Protected from water projected from a nozzle at enclosure from any direction
<b>6</b>		<b>Dust-Tight</b> No ingress of dust.		<b>Powerful Water Jets and Heavy Seas</b> Protected from sea water or water projected from powerful jet against enclosure from any direction
<b>7</b>	—	—		<b>Immersion up to 1m</b> Protected against effects of immersion and ingress of water when immersed under stated conditions of pressure and time (up to 1m of submersion)
<b>8</b>	—	—		<b>Immersion beyond 1m</b> Suitable for continuous submersion as stated by manufacturer. Normally, this means that equipment is hermetically sealed. However, it can also mean that water can enter but only in such a manner that it produces no harmful effects.

### NEMA Code Letters for Locked Rotor KVA

The letter designations for locked-rotor kVA per horsepower as measured at full voltage and rated frequency as follows:

CODE LETTER	KVA PER HP*	CODE LETTER	KVA PER HP*	CODE LETTER	KVA PER HP*	CODE LETTER	KVA PER HP*	CODE LETTER	KVA PER HP*
A	0 - 3.15	E	4.5 - 5.0	J	7.1 - 8.0	N	11.2 - 12.5	T	18.0 - 20.0
B	3.15 - 3.55	D	5.0 - 5.6	K	8.0 - 9.0	P	12.5 - 14.0	U	20.0 - 22.4
C	3.55 - 4.0	G	5.6 - 6.3	L	9.0 - 10.0	R	14.0 - 16.0	V	22.4 & UP
D	4.0 - 4.5	H	6.3 - 7.1	M	10.0 - 11.2	S	16.0 - 18.0		

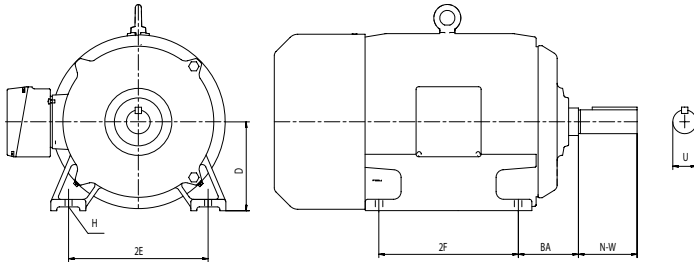
\* Locked kVA per horsepower range includes the lower figure up to, but not including, the higher figure. For example, 3.14 is designated by letter A and 3.15 by letter B. There are no code letters for IEC motors. To calculate the starting kVA per horsepower, use the equation below:

$$\text{STARTING KVA PER HORSEPOWER FOR AC MOTORS} = \frac{\text{Volts} \times \text{Locked-Rotor Amps}}{1000 \times \text{hp}} \times \begin{cases} 1 \text{ for } 1\phi \\ 1.732 \text{ for } 3\phi \end{cases}$$



## Metric IEC and NEMA Dimensional Comparison and Bearing Charts

Information listed below applies to 20, 40 and 60 series motors only. Series is indicated by motor prefix.



Dimensions in Millimeters									HP Frame Assignment		
IEC	NEMA	D	2E	2F	H	U	BA	N-W	3 Phase		
									2 Pole	4 Pole	6 Pole
56	-	56	90	71	5.8	9	36	20	.17	.12	.08
-	N/A	-	-	-	-	-	-	-	-	-	-
63	-	63	100	80	7	11	40	23	1/3	1/4	.17
-	N/A	-	-	-	-	-	-	-	-	-	-
71	-	71	112	90	7	14	45	30	3/4	1/2	1/3
-	42	66.7	89	42.8	7.1	9.5	52.4	28.6	3/4	1/2	1/3
80	-	80	125	100	10	19	50	40	1-1/5	1	3/4
-	48	76.2	108	69.8	8.7	12.7	63.5	38.1	1-1/2	1	3/4
90S	-	90	140	100	10	24	56	50	2	1-1/2	1
-	56	88.9	123.9	76.2	8.7	15.9	69.9	47.6	2	1-1/2	1
90L	-	90	140	125	10	24	56	50	3	2	1-1/2
-	56	88.9	123.9	76.2	8.7	15.9	69.9	47.6	3	2	1-1/2
100L	-	100	160	140	12	28	63	60	4	3 & 4	2
-	145T	88.9	139.6	127	8.6	22.2	57.2	57.2	4	3	2
112M	-	112	190	140	12	28	70	60	5.5	5.5	3
-	184T	114.3	190.4	139.7	10.4	28.6	70	69.9	5	5	2
132S	-	132	216	140	12	38	89	80	7.5 & 10	7.5	4
-	213T	133.4	216	139.7	10.4	34.9	89.9	85.9	7.5	7.5	3
132M	-	132	216	178	12	38	89	80	NA	10	5.5 & 7.5
-	215T	133.4	216	177.8	10.4	34.9	89.9	85.9	10	10	5
160M	-	160	254	210	15	42	108	110	15 & 20	15	10
-	254T	158.8	254	209.6	14	41.3	108	101.6	15	15	7.5
160L	-	160	254	254	15	42	108	110	25	20	15
-	256T	158.8	254	254	14	41.3	108	101.6	20	20	10
180M	-	180	279	241	15	48	121	110	30	25	NA
-	284T	177.8	279.6	241.3	14	47.6	120.7	117.5	25	25	15
180L	-	180	279	279	15	48	121	110	NA	30	20
-	286T	177.8	279.6	279.4	14	47.6	120.7	117.5	30	30	20
200L	-	200	318	305	19	55	133	110	40 & 50	40	25 & 30
-	326T	203.2	317.6	304.8	16.8	54	133.4	133.4	50	50	30
225S	-	225	356	286	19	60	149	140	NA	50	NA
-	364T	228.6	355.6	285.8	16.8	60.3	149.4	149.4	60	60	40
225M	-	225	356	311	19	60	149	140	60	60	40
-	365T	228.6	355.6	311.2	16.8	60.3	149.4	149.4	75	75	50
250M	-	250	406	349	24	65	168	140	75	75	50
-	405T	254	406.4	349.2	20.6	73	168.2	182.2	100	100	75
280S	-	280	457	368	24	75	190	140	100	100	60
-	444T	279.4	457.2	368.4	20.6	85.7	190.5	215.9	125	125	100
280M	-	280	457	419	24	75	190	140	125	125	75
-	445T	279.4	457.2	419.2	20.6	85.7	190.5	215.9	150	150	125

Metric 2-pole motors IEC225 frame and up and NEMA 2-pole motors 280TS frame and up come standard with short shaft not included in dimensional chart.

Standard NEMA motors have junction box in F1 position. IE1 Metric motors up to IEC180 frame have junction box on top (F3), IEC200 and up come with junction box in F2 position. IE2 & IE3 Metric motors come with junction box on top (F3).

Multiply HP by 0.7457 to convert HP to KW. Multiply millimeters by 0.03937 to convert millimeters to inches.

20/40 Series IEC Metric Bearings		
IEC Frame	# of Poles	Bearing
56	ALL	6201 2Z
63	ALL	6202 2Z
71	ALL	6203 2Z
80	ALL	6204 2Z
90	ALL	6205 2Z
100	ALL	6206 2Z
112	ALL	6306 2Z
132	ALL	6308 2Z
160	ALL	6309 2Z
180	ALL	6311 2Z
200	ALL	6312 C3
225	ALL	6313 C3
250	ALL	6315 C3
280	2	6315 C3
Sg 280 / SIE 280	4 - 12	6317 C3 / 6318 C3
315	2	6315 C3
315	4 - 12	6318 C3

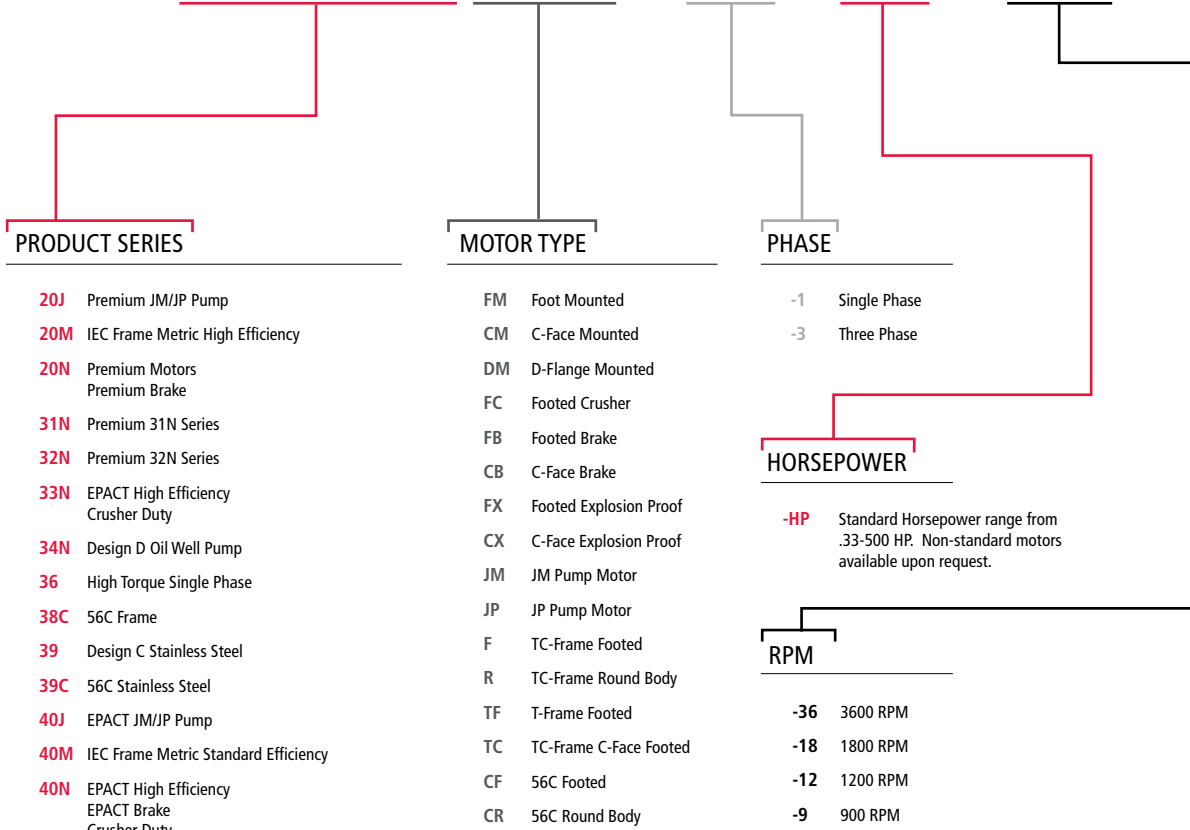
20/40/60 Series NEMA Bearings		
NEMA Frame	DE Bearing	NDE Bearing
143T	6205 2Z C3	6205 2Z C3
145T	6205 2Z C3	6205 2Z C3
182T	6306 2Z C3	6306 2Z C3
184T	6306 2Z C3	6306 2Z C3
ESg 213T / SIE 213T	6308 2Z C3	6308 / 6306 2Z C3
ESg 215T / SIE 215T	6308 2Z C3	6308 / 6306 2Z C3
254T	6309 2Z C3	6309 2Z C3
256T	6309 2Z C3	6309 2Z C3
284T	6311 2Z C3	6311 2Z C3
286T	6311 2Z C3	6311 2Z C3
324T	6312 C3	6312 C3
326T	6312 C3	6312 C3
364T	6313 C3	6313 C3
365T	6313 C3	6313 C3
404T	6315 C3	6315 C3
405T	6315 C3	6315 C3
444TS	6315 C3	6315 C3
444T	6318 C3	6318 C3
445TS	6315 C3	6315 C3
445T	6318 C3	6318 C3
447TS	6315 C3	6315 C3
447T	6318 C3	6318 C3
449T	NU319	6314 C3
586 / 587	NU322	6322 C3
587UZ / 588UZ	NU324	6324 C3

Elektrim NEMA motors come with a ball bearing as standard. Crusher Series NEMA motors come with a roller bearing as standard. All short shaft motors up to 405TS have the same bearing as T-shaft motor.

20/40 Series IEC Metric Drilled & Tapped Shaft		
IEC Frame	Thread Type	Depth (mm)
56	M3	8
63	M4	10
71	M5	12
80	M6	16
90	M8	19
100-112	M10	22
132	M12	28
160-180	M16	36
200-280	M20	42
355	M24	50

## Motor Part Number Nomenclature

# AAA-BB-W-X-YY



### ADDITIONAL SUFFIXES

added to the end of Part Number where applicable:

- /F2 = F2 Conduit Box
- CI = All Cast Iron
- /I1 = Non-Standard Increased C-Flange Metric Motor
- /R = Non-Standard Reduction D-Flange Metric Motor
- TP = Thermal Protection & Manual Reset
- P = Premium Efficient IEC or 56C motor
- PA = Premium 56C motor
- /575 = 575V motor
- WP = Waste Processing Hydraulic Pump Motor

## Which Motor Belongs to What Series

We utilize the term "series" to distinguish groups of our motors within a particular product line that have the same set of unique features and country of manufacture. For customer ease, the series is the same as the part number prefix, and is usually the first 2 digits and succeeding letter. For example, the series that motor part number 31NFM-3-5-18 belongs to is "31N."

## Catalog Notes

- ◆ Discontinued item, available while supplies last.
- V Vacuum pressure impregnation (VPI) applied
- 1 Motor is CSA certified for Class I, Division II, Group A,B,C,D Temp Code T3C rating
- 2 VFD capability 100:1VT
- 3 High locked rotor torque
- 4 F1/F2 convertible
- 5 UL recognized
- 6 Oversized ball bearings on both ends
- 7 Roller bearing on drive end
- 8 Corrosion resistant epoxy coated
- 9 Double drilled feet
- 10 Usable for vertical applications
- 11 Impregnation resin and winding wire Class "H" (DN2E200)
- 12 Low vibration level (below 2.2mm/sec)
- 13 Equipped with removable feet
- 14 Equipped with rotatable feet
- 15 Double shielded bearings
- 16 Regreasable bearings
- 17 Aluminum motor housing
- 18 Cast iron motor housing
- 19 Terminal block as standard
- 20 12 lead motors allow for 208/230/460/575/796V 60 Hz and 190/220/380/400/415/690V 50 Hz
- 21 Suitable for part winding starting at 460V
- 22 9 leads connection diagram double wye/wye
- 23 12 leads connection diagram double delta/delta
- 24 12 leads double delta
- 25 Plastic fan as standard
- 26 Cast iron fan as standard
- 27 VFD capability 5:1CT & 10:1VT
- 28 VFD capability 10:1CT & 20:1VT
- 29 VFD capability 3:1CT & 5:1VT
- 30 Motor rated 380V 50 Hz with lower HP output
- 31 TENV Totally enclosed non-ventilated motor
- 32 Special 12-lead 575V "S" wiring diagram suitable for D-O-L and soft start startup only
- 33 575V "Y" 9-lead wiring diagram
- 34 Rectifier is exclusively 460V AC (or 230V AC on request)
- 35 Thermistors and space heaters standard

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