MX4PB WITH EMX4i TECHNOLOGY

STANDARD AND HEAVY DUTY RATINGS

Prepackaged Starters with Integral Run Duty Bypass

Configure the MX4PB to fit your application

To choose a stock starter, simply select a unit from the following pages. Stock units ship the same-day.

To modify a starter, select a unit from the following pages, other options as needed from the Options section. We will modify the stock unit for next day shipment.

MX4PB configurable solid state starters stocked as:

- Combination starter with circuit breaker*
- High fault rated (65KAIC)
- Rotary disconnect operator
- EMX4i soft starter chassis
- Run duty bypass
- NEMA 4, 12 (3R enclosure with option adders)
- 240 / 480 V
- Standard 120V control power transformer
- Service entrance rated
- Door mounted keypad with NEMA 3R/4 cover (included)
- KP door mounted keypad NEMA 12 (included)
- 65KAIC rated standard
- UL certified and listed

EMX4i FEATURES

- Current limit ramp
- Soft brake
- SCR Failure Power Through
- Daily on/off scheduling
- Full graphical LCD display
- Real language feedback messages
- 8 languages: English, Chinese, German, Italian, French, Spanish, Brazilian Portuguese, Russian
- Real time graphs of motor operating performance
- Main menu and Quick Setup
- Logs: 384 events
- Easy and fast to operate interface
- Quick start application setup for easy commissioning
- Emergency Run (Fire Mode)
- Built-in Simulation Mode
- QR codes on display for fast and easy diagnostics
- USB port for Parameter upload/download, firmware upgrades, diagnostic logs

*Also available as non-combination (without circuit breaker)
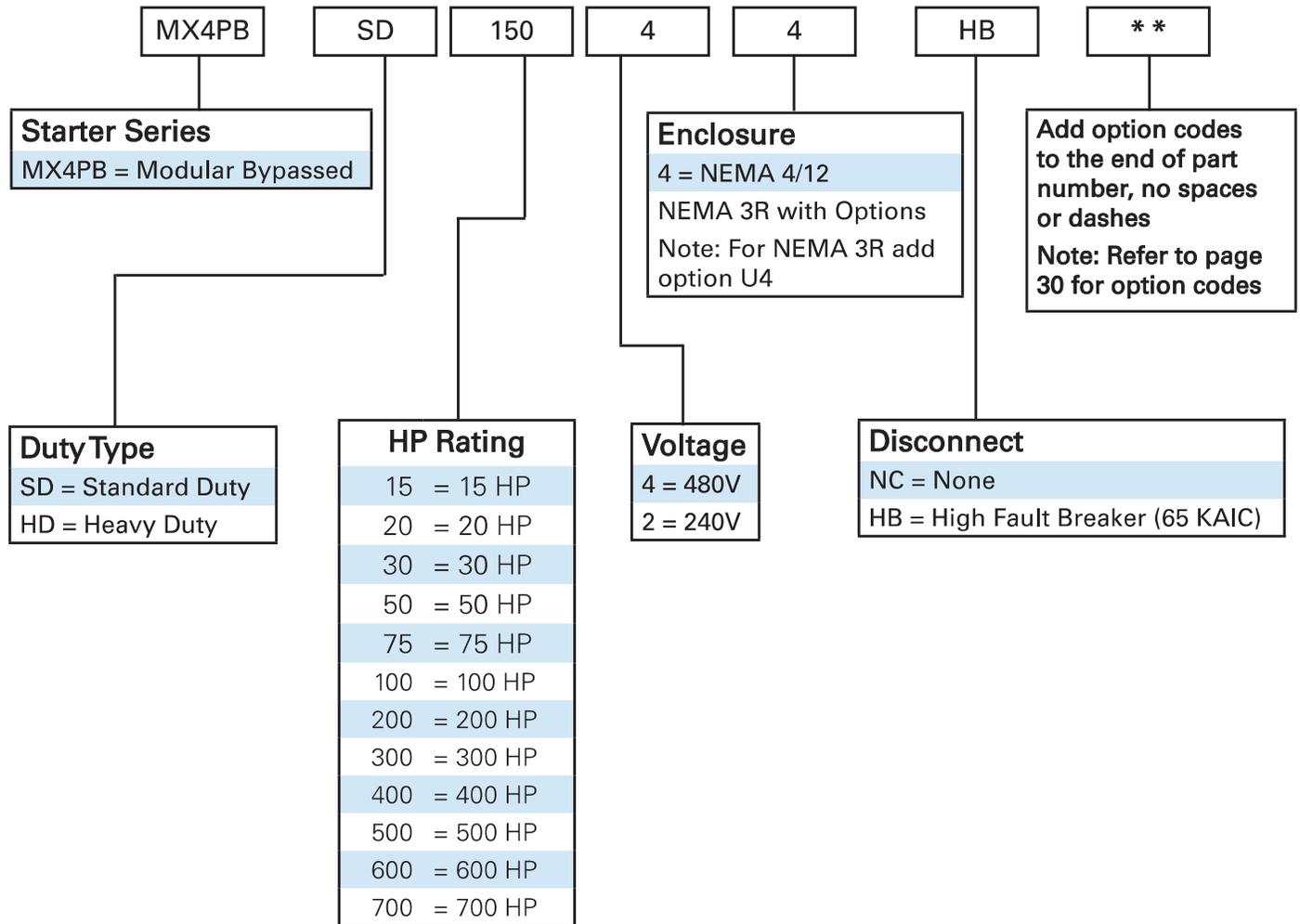
Guaranteed ... for three full years.*
Only Benshaw has a three year guarantee.

Every Benshaw solid state starter is guaranteed for three full years. Other manufacturers limit their warranties to just one year. But at Benshaw, we believe that because we build them better, we can guarantee them longer.

*Subject to factory authorized startup.

MX4PB PART NUMBER ASSEMBLER

MX4PB	SD	150	4	4	HB	**

Starter Series

MX4PB = Modular Bypassed

Enclosure

4 = NEMA 4/12

NEMA 3R with Options

Note: For NEMA 3R add option U4

Add option codes to the end of part number, no spaces or dashes

Note: Refer to page 30 for option codes

Duty Type

SD = Standard Duty

HD = Heavy Duty

HP Rating

15	= 15 HP
20	= 20 HP
30	= 30 HP
50	= 50 HP
75	= 75 HP
100	= 100 HP
200	= 200 HP
300	= 300 HP
400	= 400 HP
500	= 500 HP
600	= 600 HP
700	= 700 HP

Voltage

4 = 480V

2 = 240V

Disconnect

NC = None

HB = High Fault Breaker (65 KAIC)

MX4PB SERIES NEMA 4/12

Prepackaged Starters with Run Duty Bypass, Combination Starters with Circuit Breaker

Standard Duty / High Fault Breaker (65kA Interrupt Rating)

240 VAC

Model Number	SD High Fault HP	Max Amps	Breaker Size	V	Dimensions (Inches)			Weight (lbs)
					H	W	D	
�֍MX4PB-SD-015-2-4-HB**	15	42	70	240	24	20	12	175
✖MX4PB-SD-020-2-4-HB**	20	54	80	240	24	20	12	175
✖MX4PB-SD-030-2-4-HB**	30	80	125	240	24	20	12	200
✖MX4PB-SD-050-2-4-HB**	50	130	200	240	36	30	16	220
✖MX4PB-SD-075-2-4-HB**	75	192	300	240	36	30	16	220
✖MX4PB-SD-100-2-4-HB**	100	248	400	240	36	30	16	220
✖MX4PB-SD-150-2-4-HB**	150	360	600	240	36	30	16	220
✖MX4PB-SD-200-2-4-HB**	200	477	800	240	36	30	16	220

** Insert option code. See page 32 for a list of available options. Add options to the end of part number.
Standard duty = 350% current for 30 seconds, 1.15 S.F.
✖ Built-to-order. Please allow 2 week lead time.
For NEMA 3R add option U4 (see page 32).

WEB STOCKED

480 VAC

Model Number	SD High Fault HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)
					H	W	D	
⌁MX4PB-SD-030-4-4-HB**	30	40	100	480	24	20	12	175
⌁MX4PB-SD-050-4-4-HB**	50	65	100	480	24	20	12	175
⌁MX4PB-SD-075-4-4-HB**	75	96	150	480	24	20	12	200
⌁MX4PB-SD-100-4-4-HB**	100	124	200	480	36	30	16	220
⌁MX4PB-SD-150-4-4-HB**	150	180	300	480	36	30	16	220
⌁MX4PB-SD-200-4-4-HB**	200	240	400	480	36	30	16	220
⌁MX4PB-SD-300-4-4-HB**	300	361	600	480	36	30	16	220
⌁MX4PB-SD-400-4-4-HB**	400	477	800	480	36	30	16	400
⌁MX4PB-SD-500-4-4-HB**	500	590	1000	480	79	31.5	24	566
⌁MX4PB-SD-600-4-4-HB**	600	702	1200	480	79	31.5	24	590
⌁MX4PB-SD-700-4-4-HB**	700	828	1200	480	79	31.5	24	592

** Insert option code. See page 32 for a list of available options. Add options to the end of part number.
Standard duty = 350% current for 30 seconds, 1.15 S.F.
⌁ Web stocked.
For NEMA 3R add option U4 (see page 32).

MX4PB SERIES NEMA 4/12

Prepackaged Starters with Run Duty Bypass Combination Starters with Circuit Breaker

Heavy Duty / High Fault Breaker (65kA Interrupt Rating)

240 VAC

Model Number	HD High Fault HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)
					H	W	D	
�֍MX4PB-HD-015-2-4-HB**	15	42	70	240	24	20	12	175
✖MX4PB-HD-020-2-4-HB**	20	54	90	240	24	20	12	175
✖MX4PB-HD-030-2-4-HB**	30	80	150	240	36	30	16	200
✖MX4PB-HD-050-2-4-HB**	50	130	225	240	36	30	16	220
✖MX4PB-HD-075-2-4-HB**	75	192	350	240	36	30	16	220
✖MX4PB-HD-100-2-4-HB**	100	248	400	240	36	30	16	220
✖MX4PB-HD-150-2-4-HB**	150	360	600	240	36	30	16	220

** Insert option code. See page 32 for a list of available options. Add options to the end of part number.
Heavy duty = 450% current for 30 seconds, 1.25 S.F.
For NEMA 3R add option U4 (see page 32).
✖ Built-to-order. Please allow 2 week lead time.

480 VAC

Model Number	HD High Fault HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)
					H	W	D	
✖MX4PB-HD-030-4-4-HB**	30	40	100	480	24	20	12	175
✖MX4PB-HD-050-4-4-HB**	50	65	125	480	24	20	12	175
✖MX4PB-HD-075-4-4-HB**	75	96	150	480	36	30	16	200
✖MX4PB-HD-100-4-4-HB**	100	124	200	480	36	30	16	220
✖MX4PB-HD-150-4-4-HB**	150	180	300	480	36	30	16	220
✖MX4PB-HD-200-4-4-HB**	200	240	400	480	36	30	16	220
✖MX4PB-HD-300-4-4-HB**	300	361	600	480	36	30	16	400
✖MX4PB-HD-400-4-4-HB**	400	477	800	480	79	31.5	24	557
✖MX4PB-HD-500-4-4-HB**	500	590	1000	480	79	31.5	24	590
✖MX4PB-HD-600-4-4-HB**	600	702	1200	480	79	31.5	24	592
✖MX4PB-HD-700-4-4-HB**	700	828	1200	480	79	31.5	24	596

** Insert option code. See page 32 for a list of available options. Add options to the end of part number.
Heavy duty = 450% current for 30 seconds, 1.25 S.F.
For NEMA 3R add option U4 (see page 32).
✖ Built-to-order. Please allow 2 week lead time.

MX4PB SERIES NEMA 4/12

Prepackaged Starters with Run Duty Bypass, Non-Combination Starters

Standard Duty

240 VAC

Model Number	Interrupt Rating	Standard Duty HP	Max Amps	Interrupt Rating	V	Dimensions (Inches)			Weight (lbs)
						H	W	D	
⌐MX4PB-SD-015-2-4-NC**	10kA	15	42	10	240	24	20	12	175
⌐MX4PB-SD-020-2-4-NC**	10kA	20	54	10	240	24	20	12	175
⌐MX4PB-SD-030-2-4-NC**	10kA	30	80	10	240	24	20	12	200
⌐MX4PB-SD-050-2-4-NC**	18kA	50	130	18	240	36	30	16	220
⌐MX4PB-SD-075-2-4-NC**	18kA	75	192	18	240	36	30	16	220
⌐MX4PB-SD-100-2-4-NC**	18kA	100	248	18	240	36	30	16	220
⌐MX4PB-SD-150-2-4-NC**	30kA	150	360	30	240	36	30	16	220
⌐MX4PB-SD-200-2-4-NC**	30kA	200	477	30	240	36	30	16	220

** Insert option code. See page 32 for a list of available options. Add options to the end of part number.
   Standard duty = 350% current for 30 seconds, 1.15 S.F.
   For NEMA 3R add option U4 (see page 32).
⌐ Web stocked.

480 VAC

Model Number	Interrupt Rating	Standard Duty HP	Max Amps	Interrupt Rating	V	Dimensions (inches)			Weight (lbs)
						H	W	D	
⌐MX4PB-SD-030-4-4-NC**	10kA	30	40	10	480	24	20	12	175
⌐MX4PB-SD-050-4-4-NC**	10kA	50	65	10	480	24	20	12	175
⌐MX4PB-SD-075-4-4-NC**	10kA	75	96	10	480	24	20	12	200
⌐MX4PB-SD-100-4-4-NC**	18kA	100	124	18	480	36	30	16	220
⌐MX4PB-SD-150-4-4-NC**	18kA	150	180	18	480	36	30	16	220
⌐MX4PB-SD-200-4-4-NC**	18kA	200	240	18	480	36	30	16	220
⌐MX4PB-SD-300-4-4-NC**	30kA	300	361	30	480	36	30	16	220
⌐MX4PB-SD-400-4-4-NC**	30kA	400	477	30	480	36	30	16	220

** Insert option code. See page 32 for a list of available options. Add options to the end of part number.
   Standard duty = 350% current for 30 seconds, 1.15 S.F.
   For NEMA 3R add option U4 (see page 32).
⌐ Web stocked.

MX4PB SERIES NEMA 4/12

Prepackaged Starters with Run Duty Bypass, Non-Combination Starters

Heavy Duty

240 VAC

Model Number	Interrupt Rating	Heavy Duty HP	Max Amps	Interrupt Rating	V	Dimensions (Inches)			Weight (lbs)
						H	W	D	
✵MX4PB-HD-015-2-4-NC**	10kA	15	42	10	240	24	20	12	175
✵MX4PB-HD-020-2-4-NC**	10kA	20	54	10	240	24	20	12	175
✵MX4PB-HD-030-2-4-NC**	18kA	30	80	18	240	36	30	16	200
✵MX4PB-HD-050-2-4-NC**	18kA	50	130	18	240	36	30	16	220
✵MX4PB-HD-075-2-4-NC**	18kA	75	192	18	240	36	30	16	220
✵MX4PB-HD-100-2-4-NC**	30kA	100	248	30	240	36	30	16	220
✵MX4PB-HD-150-2-4-NC**	30kA	150	360	30	240	36	30	16	220

** Insert option code. See page 32 for a list of available options. Add options to the end of part number.
   Heavy duty = 450% current for 30 seconds, 1.25 S.F.
   For NEMA 3R add option U4 (see page 32).
✵ Built-to-order. Please allow 2 week lead time.

480 VAC

Model Number	Interrupt Rating	Heavy Duty HP	Max Amps	Interrupt Rating	V	Dimensions (inches)			Weight (lbs)
						H	W	D	
✵MX4PB-HD-030-4-4-NC**	10kA	30	40	10	480	24	20	12	175
✵MX4PB-HD-050-4-4-NC**	10kA	50	65	10	480	24	20	12	175
✵MX4PB-HD-075-4-4-NC**	18kA	75	96	18	480	36	30	16	200
✵MX4PB-HD-100-4-4-NC**	18kA	100	124	18	480	36	30	16	220
✵MX4PB-HD-150-4-4-NC**	18kA	150	180	18	480	36	30	16	220
✵MX4PB-HD-200-4-4-NC**	30kA	200	240	30	480	36	30	16	220
✵MX4PB-HD-300-4-4-NC**	30kA	300	361	30	480	36	30	16	220

** Insert option code. See page 32 for a list of available options. Add options to the end of part number.
   Heavy duty = 450% current for 30 seconds, 1.25 S.F.
   For NEMA 3R add option U4 (see page 32).
✵ Built-to-order. Please allow 2 week lead time.

MX4PB SERIES NEMA 4/12

Prepackaged Starters with Integral Bypass

Options

Option Code

U4	Space Heater with Thermostat (add for NEMA 3R)

Control Options (only one code can be selected)

Option Code

QN	Run Light
QF	Reset Push-Buttons
CP	Start / Stop Push-Buttons
CQ	Start / Stop Push-Buttons and Run Light
CR	Start / Stop Push-Buttons, Run Light, Fault Light and Reset Push-Button
RK	Fault Light
CS	Fault Light and Reset Push-Button
CT	Run Light, Fault Light and Reset Push-Button
CU	HOA and Start / Stop Push-Buttons
CV	HOA , Start / stop Push-Buttons and Run Light
CW	HOA, Start / Stop Push-Buttons, Run Light, Fault Light and Reset Push-Button

Communication Interfaces for Network Integration

Option Code

CE	DeviceNet Card, EMX4i
CJ	Modbus Card, EMX4i
CD	Profibus Card, EMX4i
CK	Modbus TCP Card, EMX4i
CL	Profinet Card. EMX4i
CF	Ethernet IP Card, EMX4i

Note: Only one can be selected

Smart Cards

SCC-PC-01	Smart Card, Pump Application [EMX4]

Fingerguard

995-17309-00	Fingerguard IP20 Kit for Personnel Safety