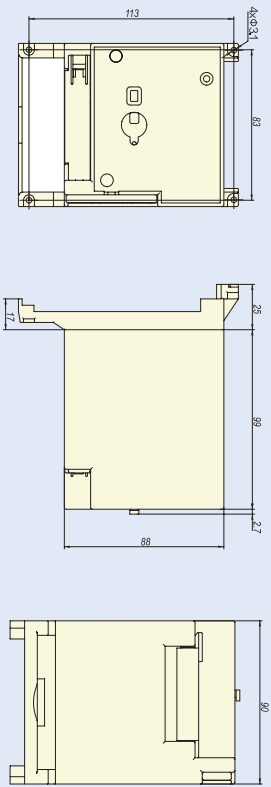
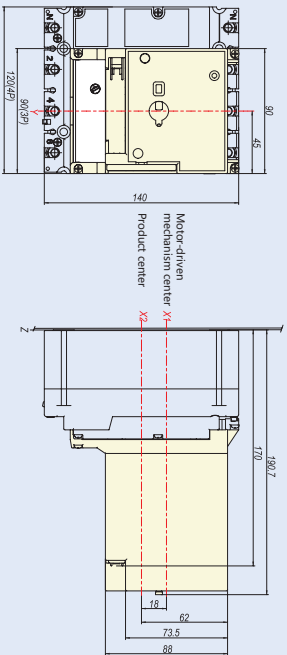


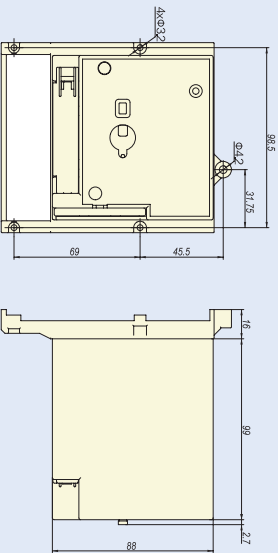
9.5.5 Installation dimension drawing



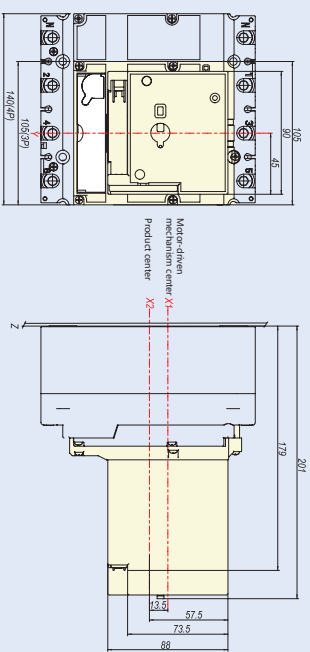
Overall and mounting dimension of MOD21-M8



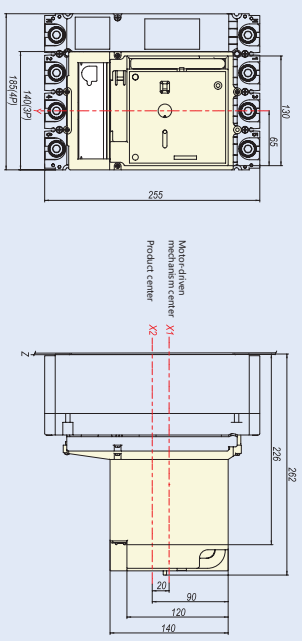
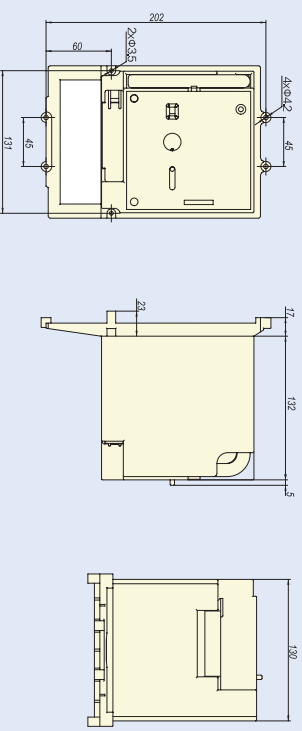
Overall dimension of MOD22-M8



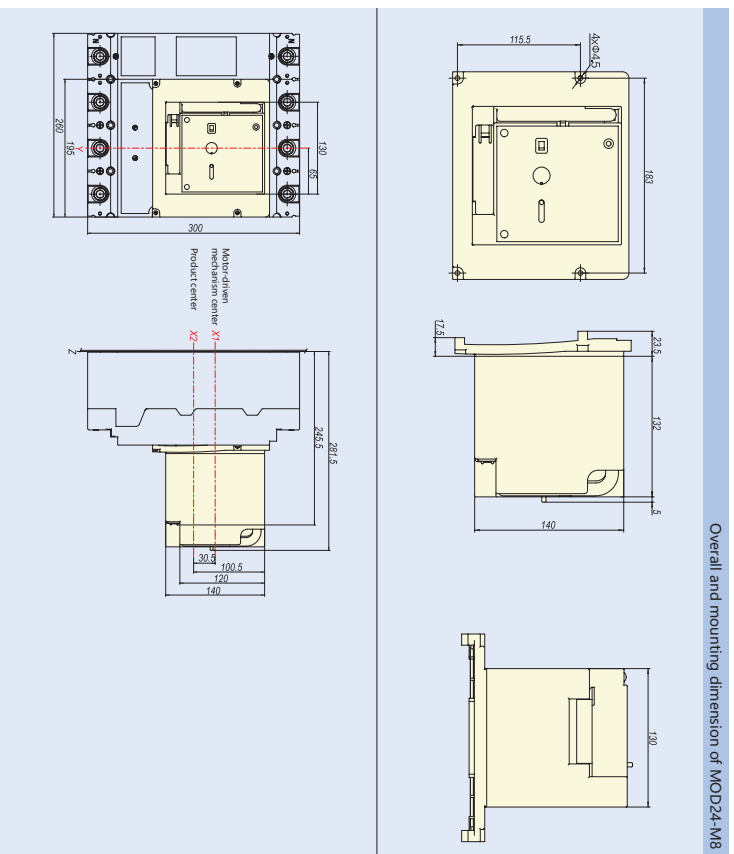
Mounting dimension of MOD22-M8



Overall and mounting dimension of MOD23-M8



Overall and mounting dimension of MOD24-M8



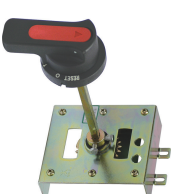
9.6 SRH Economic extended rotary handle

9.6.1 Function

The unique design and transmission structure are adopted to realize the closing, opening and re-closing operation of the circuit breaker by rotating the handle.

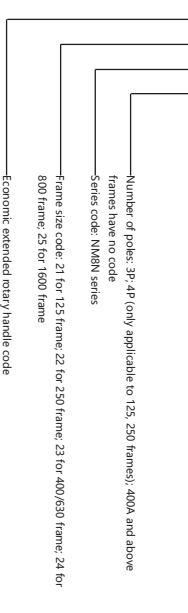
Protection degree: IP30

- With isolation function indication;
- O (Open), I (Closed) and free trip 3 position indications;
- The circuit breaker can be locked in the OFF position with 1 ~ 3 padlocks with a diameter of 5 ~ 8mm. At this time, it can prevent the circuit breaker from closing and the switch cabinet from opening;
- When the switch is in the ON position, the cabinet door cannot be opened under the action of the rotary handle (if the cabinet door is opened urgently, the cabinet door can be opened by the emergency unlocking device on the handle).



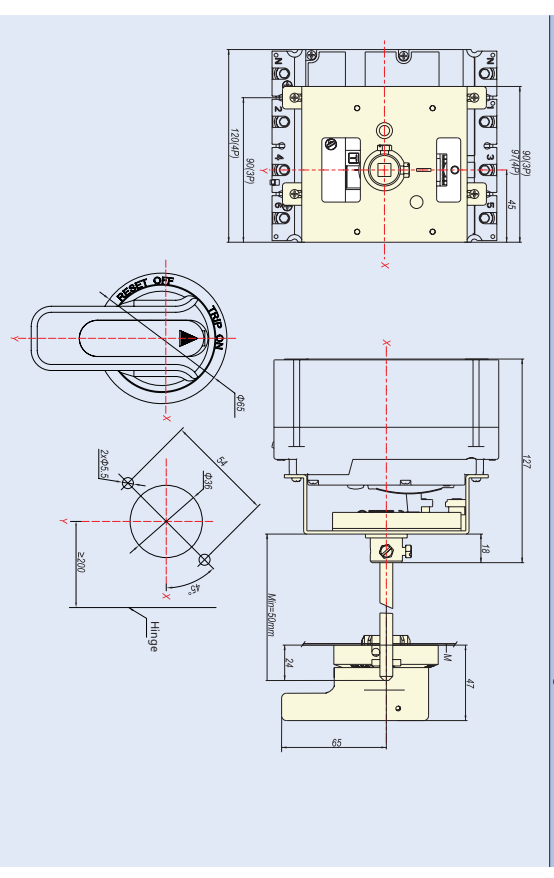
9.6.2 型号说明

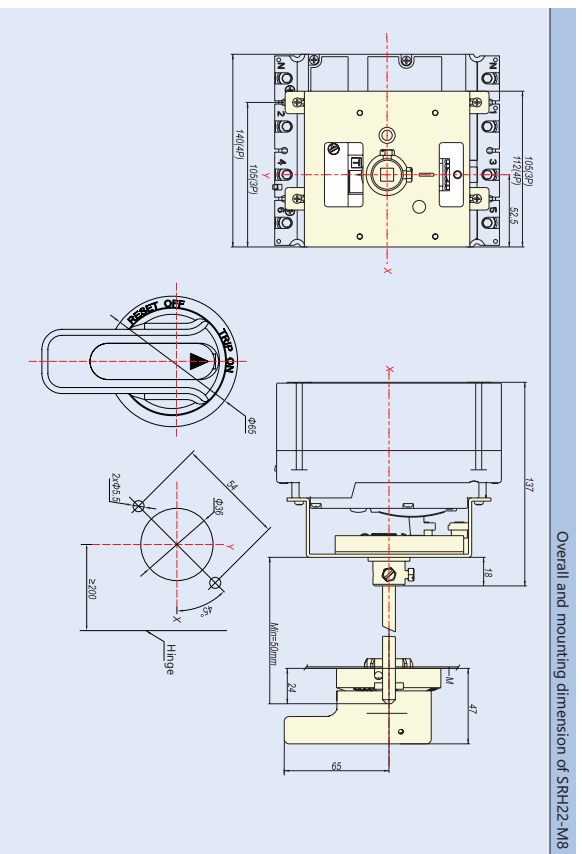
SRH 21-M8 3P



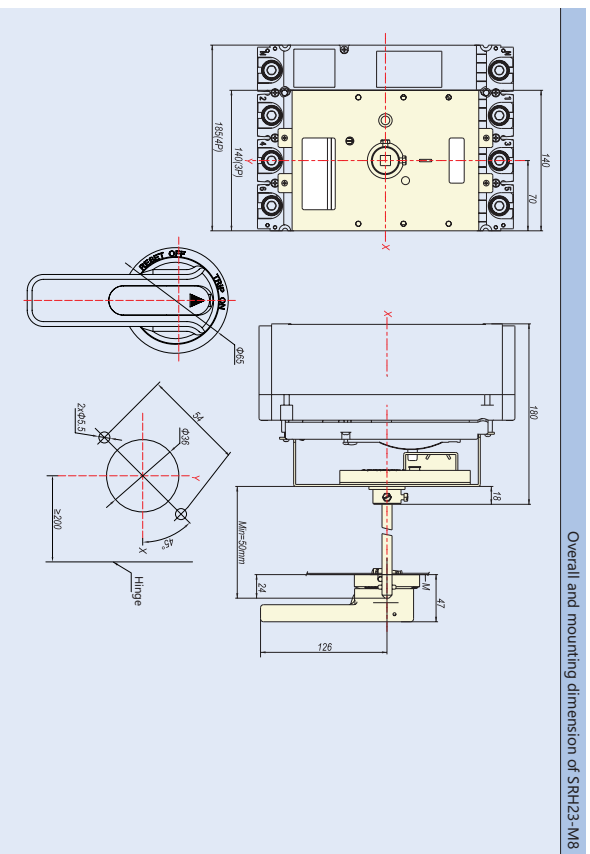
9.6.3 Installation dimension drawing

Overall and mounting dimension of SRH21-M8

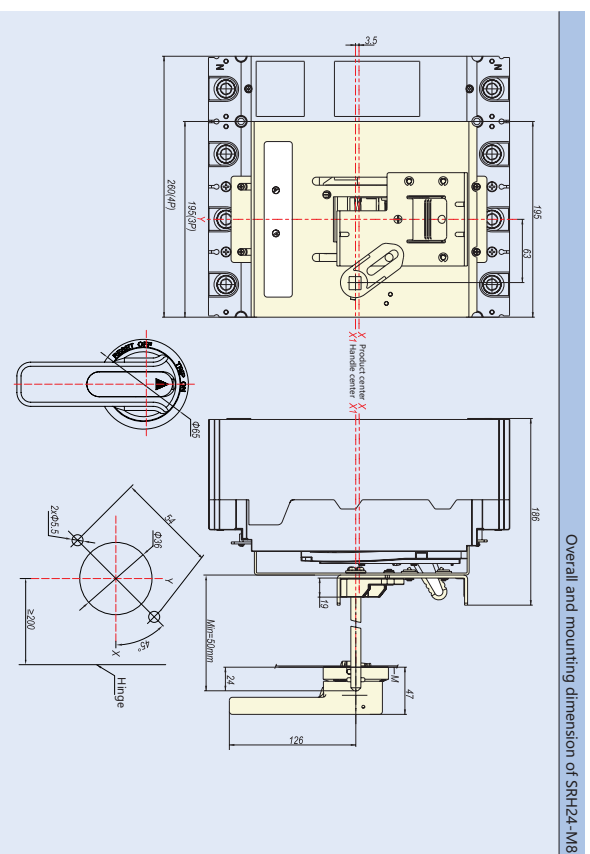




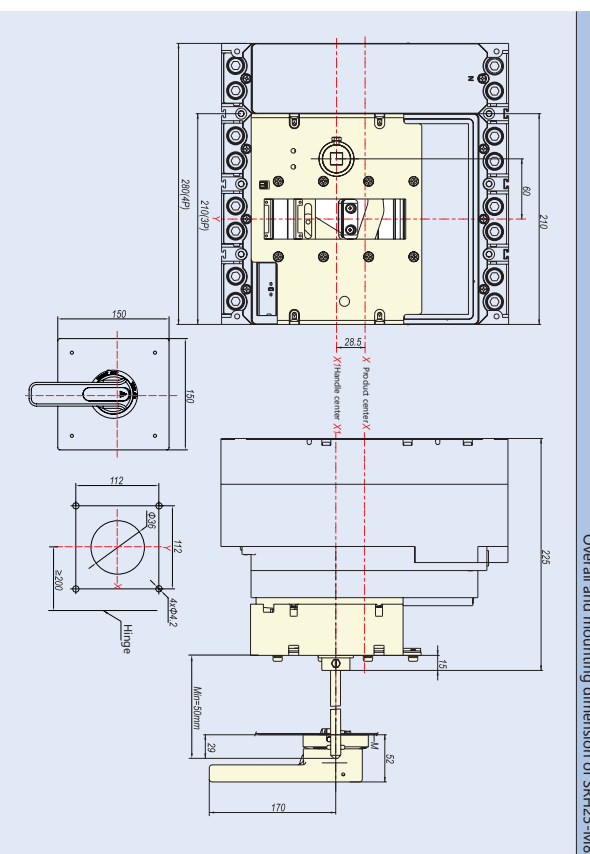
Overall and mounting dimension of SRH23-M8



Overall and mounting dimension of SRH23-M8



Overall and mounting dimension of SRH24-M8



Overall and mounting dimension of SRH25-M8



9.7.7 DRH Direct rotary handle

9.7.1 Function

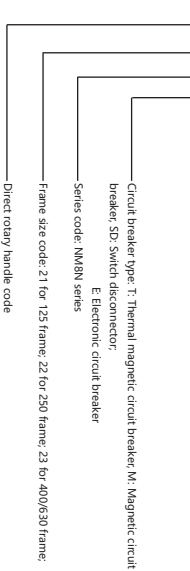
The unique design and transmission structure are adopted to realize the closing, opening and re-closing operation of the circuit breaker by rotating the handle.

Protection degree: IP40

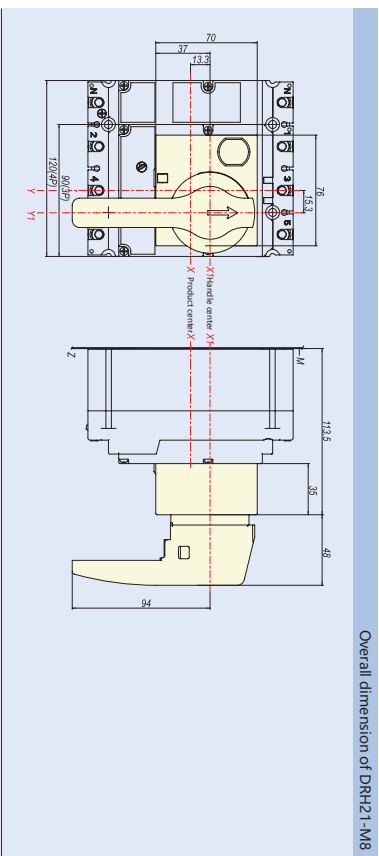
- Reliable insulation;
- With isolation function indication;
- O (Open), I (closed) and free trip 3 position indications;
- The circuit breaker can be locked in the OFF position through 1 ~ 3 padlocks with a diameter of 5 ~ 8mm.
- (Padlock user prepared)

9.7.2 Model description

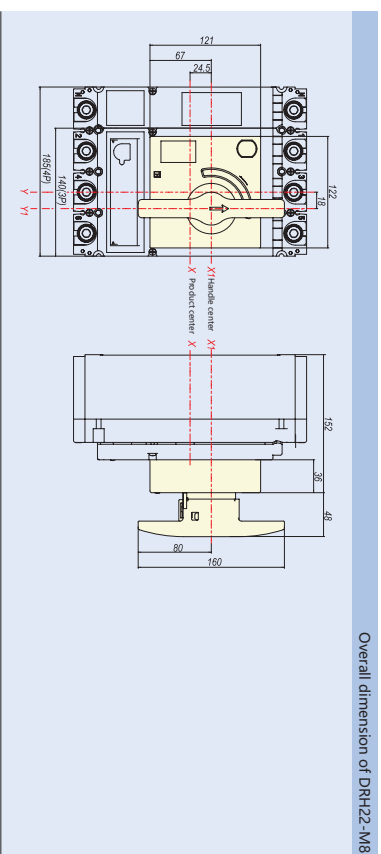
DRH 21-M8 T



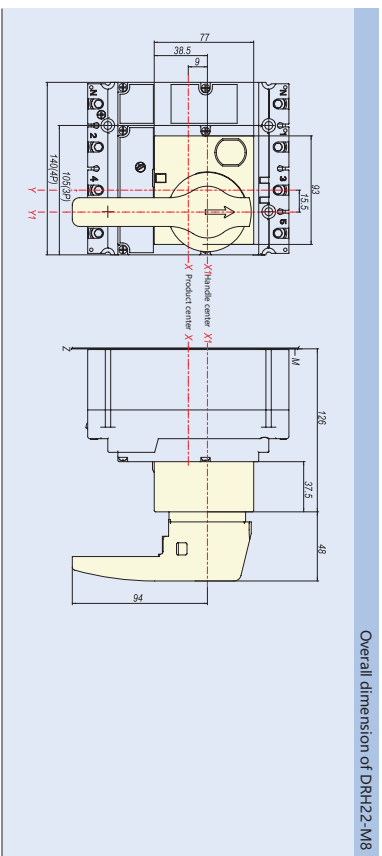
9.7.3 Installation dimension drawing



Overall dimension of DRH21-M8



Overall dimension of DRH22-M8



Overall dimension of DRH22-M8



9.8 ERH Extended rotary handle

9.8.1 Function

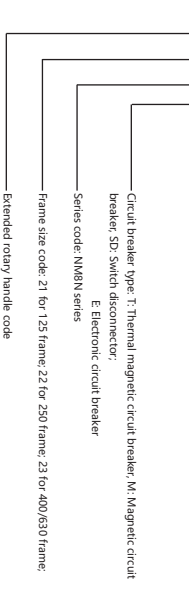
The unique design and transmission structure are adopted to realize the closing, opening and re-closing operation of the circuit breaker by rotating the handle.

Protection degree: IP50

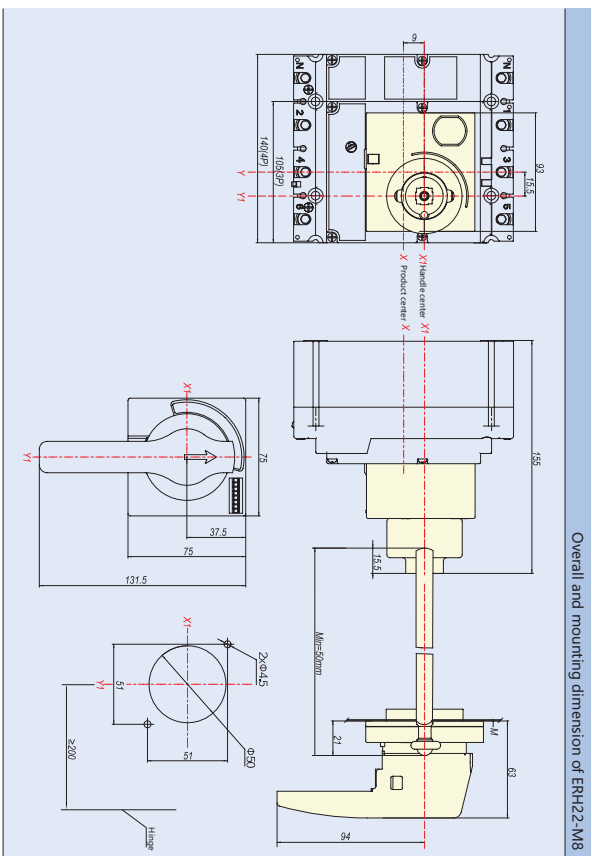
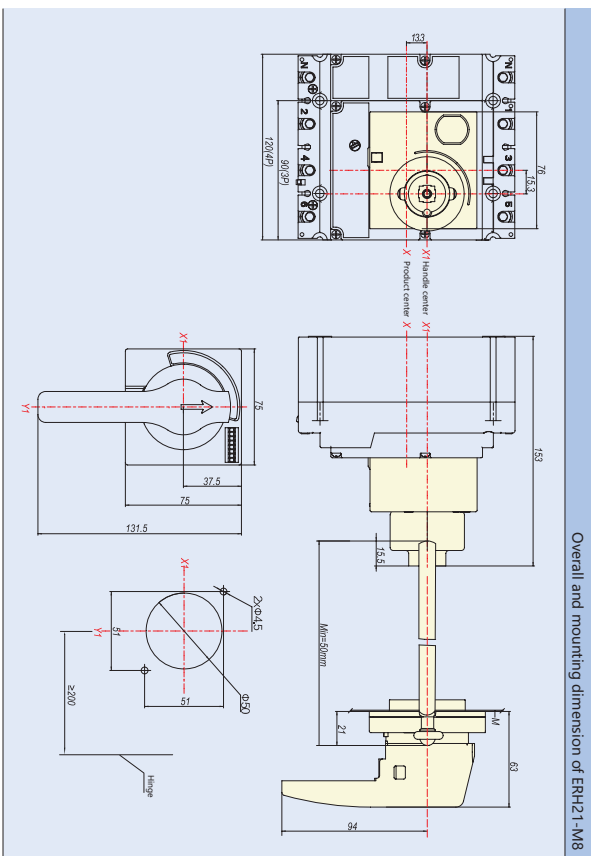
- Reliable insulation;
- With isolation function indication;
- O (Open), I (closed) and free trip 3 position indications;
- When the switch cabinet door is open, the setting value of the circuit breaker release can be set;
- When the switch cabinet door is opened, it can prevent the circuit breaker from closing;
- The circuit breaker can be locked in the OFF position through (1 ~ 3) padlocks with a diameter of (5 ~ 8) mm;
- (Padlock user prepared) can prevent the switch cabinet door from opening at this time;
- When the switch is in the ON position, the cabinet door cannot be opened under the action of the rotary handle (if the cabinet door is opened urgently, the cabinet door can be opened by the emergency unlocking device on the handle).

9.8.2 Model description

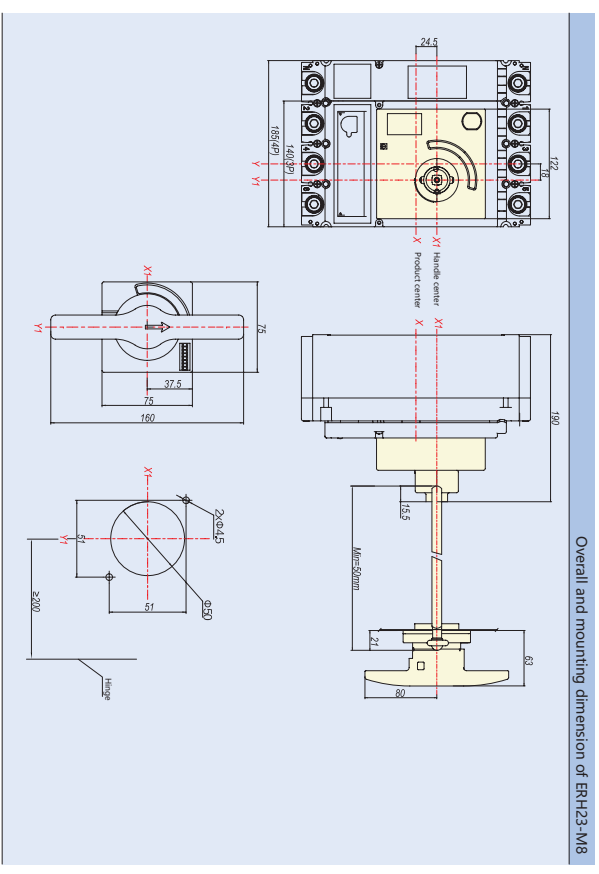
ERH 21-M8 T



9.8.3 Installation dimension drawing



Overall and mounting dimension of ERH23-M8

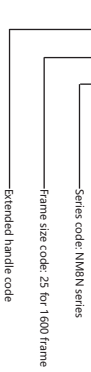


9.9 LHD Extended handle

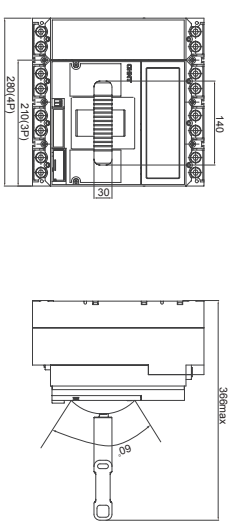
9.9.1 Function
With a unique design, the circuit breaker can be closed, opened and re-latched by rotating the handle. It is only applicable to 1600A.

9.9.2 Model description

LHD 25-M8



9.9.3 Overall dimension





9.10 KLK Locking system

9.10.1 Function

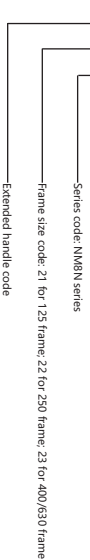
The locking system locks the open position of the circuit breaker.

The locking system can be equipped with (1 ~ 3) padlocks with a diameter range (5 ~ 8) mm.

- (Padlock user prepared)

9.10.2 Model description

KLK 21-M8



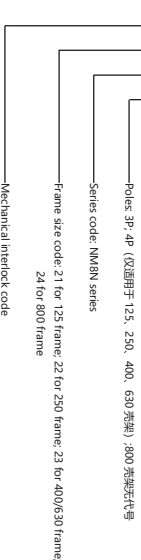
9.11 MIT Mechanical interlock

9.11.1 Function

与相同壳体的两台断路器配合使用，一台断路器合闸时，另外一台断路器无法合闸，处于断开状态。

9.11.2 Model description

MIT 21-M8 3P



9.12 TCV Short terminal cover

9.12.1 Function

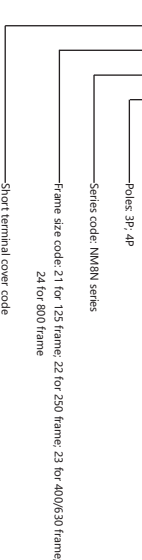
Prevents contact with the main circuit and can also be used to prevent short circuit between phases.

Protection degree: IP40

For voltages $\geq 500V$, terminal covers must be fitted

9.12.2 Model description

TCV 21-M8 3P



9.13 TCE Long terminal cover

9.13.1 Function

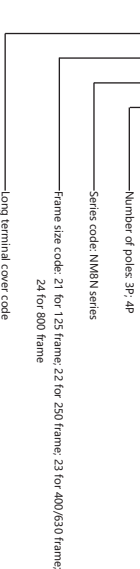
Prevents contact with the main circuit and can also be used to prevent short circuit between phases. There are knock-out holes in front of the terminal cover to accommodate various lug cables and front wiring.

Protection degree: IP40

For voltages $\geq 500V$, terminal covers must be fitted

9.13.2 Model description

TCE 21-M8 3P



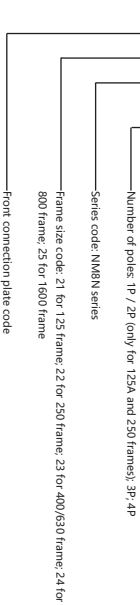
9.14 FCP Front connection plate

9.14.1 Function

Make the circuit breaker have a flexible wiring mode. By installing this accessory, the pole spacing can be increased to increase the electrical gap between adjacent poles at the inlet and outlet ends of the circuit breaker and enhance the safety between lines.

9.14.2 Model description

FCP 25-M8 3P(1600)



Note : Only applicable to 1600 frame, there are three specifications of 1000、1250、1600

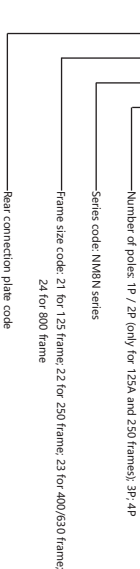
9.15 RCP Rear connection plate

9.15.1 Function

Make the circuit breaker have flexible wiring mode, which can realize the wiring behind the board

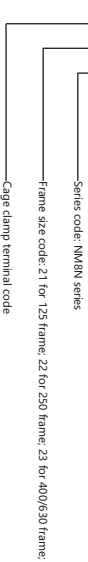
9.15.2 Model description

RCP 21-M8 2P





9.16 CCT Cage clamp terminal
 9.16.1 Function
 Make the circuit breaker have a flexible wiring mode, which can directly connect the bare wires.
 9.16.2 Model description
 CCT 21- M8



CCT23-M8



9.16.3 Wiring capacity

Serial No.	Wiring capacity	Torque
CCT21-M8	6.5~7.5mm ²	8Nm
CCT22-M8	10~120mm ²	10Nm
CCT23-M8	1.20~240mm ²	35Nm

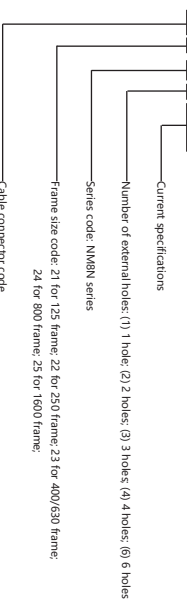
9.17 MCMC Cable connector

9.17.1 Function

Make the circuit breaker have a flexible wiring method, which can directly connect the bare wires and realize the connection of multiple wires.

9.17.2 Model description

MC 25- M8(3)(1250)



Note : Only applicable to 1600 housing, only 800-1250 specifications

9.17.3 Wiring capacity

Serial No.	Wiring capacity	Torque	Note
MC1-M8 (1)	16~55mm ²	10Nm	1 hole
MC2-M8 (2)	6.5~260mm ²	30Nm	2 hole
MC2-M8 (3)	2x16~120mm ²	10Nm	2 hole
MC2-M8 (4)	6x10~350mm ²	10Nm	6 hole
MC2-M8 (6)	2x160~260mm ²	35Nm	2 hole
MC3-M8 (3)	2x16~260mm ²	35Nm	3 hole
MC3-M8 (4)	4x16~260mm ²	35Nm	4 hole
MC3-M8 (5)	3x16~300mm ²	35Nm	3 hole
MC3-M8 (6)	4x16~340mm ²	35Nm	4 hole

9.18 PIA Plug-in base

9.18.1 Function

Quickly change the circuit breaker without changing the inlet and outlet wires and installing the base.

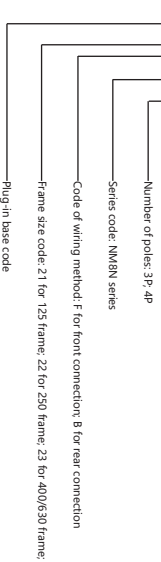
Plug-in base can be pre-installed, which is convenient for customers to add circuit breakers in the future.

When the circuit breaker is installed through the board or the base, the power circuit can be isolated.

With plug-in safety device function (optional), it can ensure that the circuit breaker can trip automatically when it is pulled out when the circuit breaker is closed.

9.18.2 Model description

PIA 21F-M8 3P



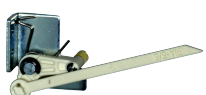
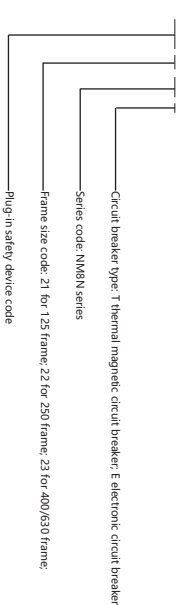
9.19 PISDPISD Plug-in safety device

9.19.1 Function

Used together with the plug-in base, it can ensure that the circuit breaker can automatically trip when it is pulled out when the circuit breaker is closed.

9.19.2 Model description

PISD 21- M8 T



9.20 DOB Draw-out base

9.20.1 Function

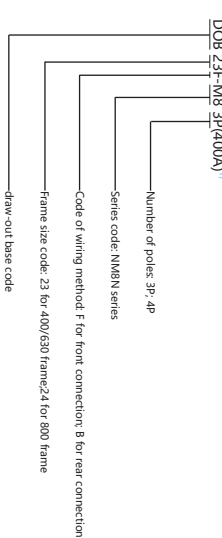
Quickly change the circuit breaker without changing the inlet and outlet wires and installing the base.

Withdrawable base can be installed in advance to provide convenience for customers to add circuit breakers later.

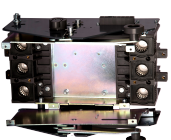
With plug-in safety device function (optional), it can ensure that the circuit breaker can automatically trip when it is pulled out when the circuit breaker is closed.

9.20.2 Model description

DOB 23F-M8 3P(400A)



Note : DOB23 is suitable for 400/630 housings. There are two specifications of 400 and 630.



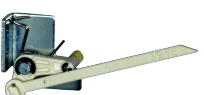
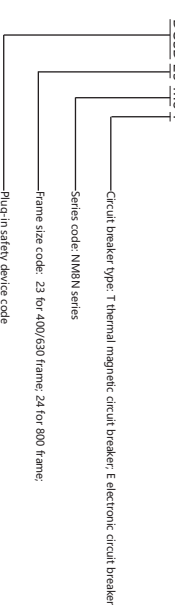
9.21 DOSD Draw-out safety device

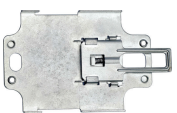
9.21.1 Function

Used together with the plug-in base, it can ensure that the circuit breaker can automatically trip when it is pulled out when the circuit breaker is closed.

9.21.2 Model description

DOSD 23- M8 T



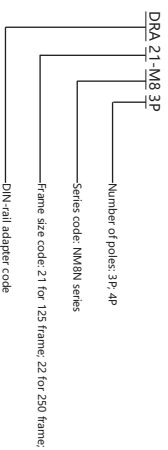


9.22 DRA DIN-rail adapter

9.22.1 Function

Adapt to the body and can be mounted on a 35mm standard DIN rail

9.22.2 Model description



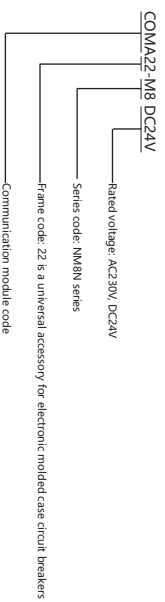
9.23 COMA communication module

9.23.1 Function

The COMA communication module is an interface module for the communication between the electronic plastic case circuit breaker and the bus system, and performs communication and relay control output. Combined with the Modbus-RTU communication protocol, this communication module can easily establish a connection with a fieldbus master device to achieve three remote or four remote functions. The technical parameters are as follows:

- Rated voltage: AC230V or DC24V (error range $\pm 15\%$)
- Communication type: RS485 (Modbus-RTU protocol)
- Contact capacity: AC250V / 3A; DC30V / 3A
- Transmission medium: shielded twisted pair
- Transmission distance: 1.2km (using category A shielded twisted pair)
- Working status indication: LED indication
- Number of stations: 1 station

9.23.2 Model description



9.23.3 Communication solution

Solutions	Activate function	Required products and accessories	Note
Solution 1	Remote measure	NM8N basic or standard electronic moulded case circuit breaker; COMA22-M8 communication module	1. Read phase current
Solution 2	Remote measure	NM8N basic or standard electronic moulded case circuit breaker; COMA22-M8 communication module; AX auxiliary contact (optional, indicating opening and closing status); AL alarm contact (optional, indicating trip status).	1. Read phase current 2. Indicate circuit breaker position information (open, closed, trip status) 3. Control circuit breaker opening and closing
Solution 3	Remote measure	NM8N basic or standard electronic moulded case circuit breaker; COMA22-M8 communication module; AX auxiliary contact (optional, indicating opening and closing status); AL alarm contact (optional, indicating trip status); MOD electric operation mechanism.	1. Read phase current 2. Indicate circuit breaker position information (open, closed, trip status) 3. Control circuit breaker opening and closing
Solution 4	Remote measure	NM8N standard electronic moulded case circuit breaker; COMA22-M8 communication module; AX auxiliary contact (optional, indicating opening and closing status); AL alarm contact (optional, indicating trip status); MOD electric operation mechanism.	1. Read phase current 2. Indicate circuit breaker position information (open, closed, trip status) 3. Control circuit breaker opening and closing 4. Adjust the internal parameter settings of the controller (only for standard specifications. For details, please refer to the communication protocol).



9.24 PSU battery box

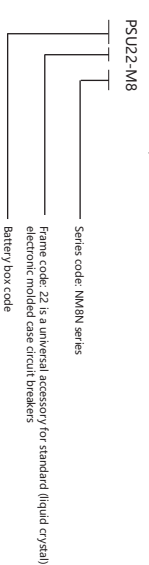
9.24.1 Function

Provide DC 9V power for the standard (liquid crystal) controller for users to view, set and modify controller parameters. Ranch

Output voltage: DC 9V

Continuous power supply time: 7 hours

9.24.2 Model description

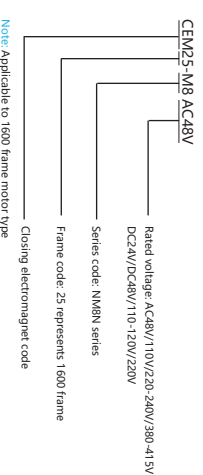


9.25 CEM Closing electromagnet

9.25.1 Function

The closing electromagnet is used to close the circuit breaker by remote control. When the circuit breaker is in the open and energy storage state at the same time, the breaker can be closed at any time. The closing electromagnet device has both AC and DC control. When the power supply voltage is equal to any voltage value between 85% and 110% of the rated control power voltage, closing electromagnet can reliably close the circuit breaker. The working mode of the closed electromagnet is a short-time work system. It cannot be allowed to be energized for a long time. The energization time is between 0.2s and 2s, otherwise there is a danger of being burned.

9.25.3 Model description



9.25.4 Electrical Characteristics

Note: Applicable to 1600 frame motor type

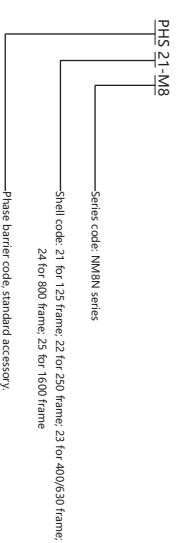
Rated working voltage(V)	AC48V/110V /220-260V/380-415V
Voltage range	DC24V/48V/110-120V/220V
Pulse duration range(s)	0.2-2
Power consumption	AC 5VA DC 5W
Circuit breaker closing time(ms)	<70
Breaker opening time(ms)	50±10
Rated insulation voltage(kV)	2
Peak current	6Xin

9.26 PHS Phase barrier

9.26.1 Function

Guarantees phase-to-phase insulation safety and prevents phase-to-phase short circuits

9.26.2 Model description



9.26 Installation diagram of internal accessories

Accessory name	Mounting and wiring mode		Left Handle ON right OFF	
	3P 4P	3P 4P	3P 4P	3P 4P
No accessory				
Alarm contact				
Auxiliary contact				
Shunt release				
Under-voltage release				
Shunt release Auxiliary contact				
Shunt release Under-voltage release				
Shunt release Alarm contact				
Auxiliary contact Alarm contact				
Under-voltage release Alarm contact				
Shunt release Auxiliary contact Under-voltage release				

- Shunt release ▲ Under-voltage release ○ Auxiliary contact ● Alarm contact
- Note: a. NM8N-125, 250, 400, 630, 800 cannot be equipped with undervoltage release and shunt release at the same time;
 b. NM8N-125, 250 3P / 4P can be equipped with a maximum of 2 sets of auxiliary contacts; 1P has no internal accessories; 2P can be equipped with a maximum of one auxiliary / alarm contact at the same time;
 c. NM8N-125, 250, 400, 630, 800 can be equipped with a maximum of 2 sets of auxiliary contacts;
 d. NM8N-800 can be equipped with up to 4 auxiliary contacts;
 e. NM8N-1600 can be equipped with a maximum of 2 sets of auxiliary contacts; and can simultaneously install undervoltage release and shunt release;
 f. NM8N series can only be equipped with one alarm contact.

10 Technical Supplement

10.1 DC application wiring method

Grounding type	Unipolar grounding system	Ungrounded system												
Circuit diagram														
Impact of fault	<table border="1"> <tr> <td>Fault A</td> <td>maximum short-circuit current I_{sc}</td> </tr> <tr> <td>Fault B</td> <td>maximum short-circuit current I_{sc}</td> </tr> <tr> <td>Fault C</td> <td>has no effect</td> </tr> </table>	Fault A	maximum short-circuit current I_{sc}	Fault B	maximum short-circuit current I_{sc}	Fault C	has no effect	<table border="1"> <tr> <td>Fault A</td> <td>has no effect</td> </tr> <tr> <td>Fault B</td> <td>maximum short-circuit current I_{sc}</td> </tr> <tr> <td>Fault C</td> <td>has no effect</td> </tr> </table>	Fault A	has no effect	Fault B	maximum short-circuit current I_{sc}	Fault C	has no effect
Fault A	maximum short-circuit current I_{sc}													
Fault B	maximum short-circuit current I_{sc}													
Fault C	has no effect													
Fault A	has no effect													
Fault B	maximum short-circuit current I_{sc}													
Fault C	has no effect													
DC500V	<p>Note: 1. The upper and lower lines can be used, here the following lines are taken as an example.</p>	<p>Note: 1. Both the upper and lower lines can be used, here the following lines are taken as an example; 2. The installation method does not cause a secondary ground fault.</p>												
DC500~750V	<p>Note: 1. The upper and lower lines can be used, here the following lines are taken as an example.</p>	<p>Note: 1. Both the upper and lower lines can be used, here the following lines are taken as an example; 2. Make sure that the installation method does not cause a secondary ground fault.</p>												
DC750~1000V	<p>Note: 1. The upper and lower lines can be used, here the following lines are taken as an example.</p>													

10.2 NM8N power loss table

Release type	Model	Rated current A	Fixed circuit breaker resistance loss per pole mΩ	Power loss per pole W
Thermal magnetic	NM8N-125	16	8.8	2.3
		20	8.8	3.5
		25	5.2	3.3
		32	4.5	4.6
		40	2.6	4.2
		50	1.8	4.5
		63	1.7	6.7
		80	1.3	8.3
		100	0.88	8.8
		125	0.8	12.5
		150	0.7	10.9
		160	0.55	14.1
Thermal magnetic	NM8N-250	180	0.55	17.8
		200	0.55	22.0
		225	0.4	20.3
		250	0.4	25.0
		250	0.35	21.9
		315	0.25	24.8
		350	0.25	30.6
		400	0.15	24.0
		400	0.15	24.0
		500	0.12	30.0
		500	0.08	20.0
		630	0.08	31.8
Thermal magnetic	NM8N-400	700	0.08	39.2
		800	0.08	51.2
		800	0.08	51.2
		800	0.08	51.2
		1000	0.08	80.0
		1250	0.04	62.5
		1600	0.04	102.4
		1600	0.8	0.8
		32	0.4	1.6
		63	0.4	4.0
		100	0.4	10.2
		Electronic	NM8N-400	160
250	0.15			9.4
400	0.15			24.0
400	0.15			24.0
400	0.12			47.6
630	0.08			51.2
800	0.08			51.2
800	0.08			51.2
1000	0.08			80.0
1350	0.04			62.5
1600	0.04			102.4
Switch disconnector	NM8N-125			63
		100	0.8	8.0
		125	0.8	12.5
		125	0.4	6.3
		160	0.4	10.2
		200	0.4	16.0
		250	0.4	25.0
		250	0.15	9.4
		400	0.15	24.0
		400	0.12	47.6
		800	0.08	51.2
		Switch disconnector	NM8N-250	160
250	0.4			25.0
250	0.15			9.4
400	0.15			24.0
400	0.12			47.6
800	0.08			51.2
800	0.08			51.2
1000	0.08			80.0
1350	0.04			62.5
1600	0.04			102.4
1600	0.08			51.2

10.3 NM8N thermal magnetic circuit breaker rated operational current and temperature compensation coefficient table

Rated current	Ambient temperature													
	-40°C	-35°C	-25°C	-15°C	-5°C	0°C	+10°C	+20°C	+30°C	+40°C	+50°C	+60°C	+70°C	
125	16A	22.5	22	20.5	20	19.5	19	18.5	17.5	17	16	15	14.5	14
	20A	28	27.5	26.5	25.5	24.5	24	23	22	21	20	19.5	18.5	18
	25A	35	34	33	32	30.5	30	28	27	26	25	24	22.5	22
	32A	45	44	42	41	39	38	37	35	33	32	30.5	29	28
	40A	56	55	53	51	49	48	46	44	42	40	37	33.5	29
	50A	70	68.5	66	64	61	60	57.5	55	52.5	50	47.5	45	40
	63A	88	86.5	83	80	77	75	72	69	66	63	58.5	53	46
	80A	112	110	106	102	98	96	92	88	84	80	74.5	67	56
	100A	140	137	132	127	122	120	115	110	105	100	93	84	80
	125A	175	172	165	159	153	150	144	137	131	125	116	105	91
	150A	175	172	165	159	153	150	144	137	131	125	118	106	96
	250	180A	224	220	212	204	196	192	184	176	168	160	152	136
200A		252	247	238	229	220	216	207	198	189	180	171	157	144
250A		280	275	265	255	245	240	230	220	210	200	190	175	166
315A		315	309	300	288	276	270	259	247	236	225	213	196	180
400A		350	343	332	319	306	300	287	275	262	250	237	218	207
500A		350	343	332	319	306	300	287	275	262	250	237	225	212
630A		350	343	332	319	306	300	287	275	262	250	237	225	212
800A		441	433	418	402	386	378	362	346	331	315	300	286	271
1000A		490	481	465	447	429	420	402	385	367	350	332	295	276
1250A		560	550	530	510	490	480	460	440	420	400	380	360	320
1600A		700	687	662	637	612	600	575	550	525	500	450	406	360
400		500A	700	687	662	637	612	600	575	550	525	500	490	460
	630A	882	866	836	804	772	756	724	693	661	630	580	530	490
	800A	980	962	927	892	857	840	805	770	735	700	670	645	575
	1100A	1120	1100	1060	1020	980	960	920	880	840	800	735	670	625
	1400A	1120	1100	1060	1020	980	960	920	880	840	800	760	696	640
	1750A	1400	1375	1325	1275	1225	1200	1150	1100	1050	1000	950	870	800
	2250A	1750	1718	1656	1594	1531	1500	1437	1375	1312	1250	1187	1088	1000
	2800A	2240	2200	2120	2040	1960	1920	1840	1760	1680	1600	1520	1390	1280

Note¹⁾: For a multi-pole DC circuit breaker, if a 2m long standard wire is used in series, the derating factor above applies.
 Note²⁾: When the copper short-circuit bar is connected in series, it needs to be further reduced based on the above table (except NM8NDC-1600). The specific derating factor should be determined by users according to their different wiring methods. Derating by a factor of 0.8).

10.4 NM8N thermal magnetic circuit breaker rated operational current and temperature compensation coefficient table

Rated current	Ambient temperature															
	-25°C	-15°C	-5°C	0°C	+10°C	+20°C	+30°C	+40°C	+50°C	+60°C	+70°C					
NM8N-250	32A	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
	63A	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
	100A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	160A	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
NM8N-400	250A	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	400A	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	250A	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	400A	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
NM8N-630	250A	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	400A	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	630A	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
	800A	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
NM8N-800	800A	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	630A	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630
	800A	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	800A	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
NM8N-1600	1000A	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	1250A	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
	1600A	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
	1600A	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600

Note: Individual specifications of products need to be derated at a temperature of 50 ° C and above (parameters refer to the table), and Ir needs to be adjusted to the corresponding gear.

For example: NM8N-250 EN 250 3P products are used at 70 ° C.

The product needs to be derated to 213A, and the Ir position is adjusted to 0.8In position.

The NM8N-250 EM 250 3P product is used at 70 ° C. The product should be derated to 213A, and the Ir position should be adjusted to 213A.

10.5 Derating factor table for circuit breaker with residual current protection module

Model	Derating factor	
NM8N-125+NM8NL-125	16A~63A	1
	80A~100A	0.9
NM8N-250+NM8NL-250	125A	0.8
	125A~180A	1
NM8N-400+NM8NL-400	200A~250A	0.9
	32A, 63A, 100A, 160A	1
NM8N-630+NM8NL-630	250A	0.95
	315A, 350	1
NM8N-800+NM8NL-800	400A	0.96
	400A	0.93
NM8N-1600+NM8NL-1600	1000A	0.95
	1250A	0.93
NM8N-630+NM8NL-630	400A~500A	0.87
	630A	1
NM8N-800+NM8NL-800	400A	0.90
	630A	0.90

10.6 Derating factor table for circuit breakers with plug-in or draw-out accessories

Model	Derating factor + Plug-in type	+Economic draw-out type	
NM8N-125	16A-100A	1	/
	125A	0.95	/
NM8N-250	125A-180A	1	/
	200A-250A	0.95	/
NM8N-400	32A, 63A, 100A, 160A	1	/
	250A	0.95	/
NM8N-630	250A-400A	1	1
	400A	1	1
NM8N-800	400A	1	1
	500A	0.95	1
NM8N-1600	1000A	1	1
	1250A	0.9	0.9
NM8N-800	500-700A	/	0.95
	800A	/	0.9
NM8N-800	800A	/	0.9
	800A	/	0.9

10.7 NM8N Derating factor table for circuit breakers altitude

Altitude m	Derating factor			
	2000m	3000m	4000m	5000m
Rated operational current In	1×In	0.96×In	0.93×In	0.9×In
Rated operational voltage Ue(V)	AC	690	550	480
	DC (4 pole string)	1000	900	850
Rated insulation voltage Ui(V)	AC	1000	930	870
	DC	2200	2050	1900
Dielectric properties(V)	Uimp =8kA	2550	2370	2200
	Uimp =12kA	3110	2892	2705
Rated insulation impulse voltage Uimp(kV)	Uimp =8kA	3600	3350	3110
	Uimp =12kA	3600	3350	3110
Rated insulation impulse voltage Uimp(kV)	NM8N-125	8	8	8
	NM8N-250	8	8	8
Rated insulation impulse voltage Uimp(kV)	NM8N-400	12	10	8
	NM8N-630	12	10	8
Rated insulation impulse voltage Uimp(kV)	NM8N-800	12	10	8
	NM8N-800	12	10	8



11 Ordering notice

11.1 Quick selection of circuit breaker
11.1.1 Quick selection of power distribution and motor protection circuit breakers¹⁾

Circuit breaker	Frame current(A)	Breaking code	Release type	Rated current(A)	Poles	Special requirement			
NM8N moulded case circuit breaker	250	S	TM	125	4C	OTHER			
							M: Magnetic for motor protection	TM/M	1P : One pole 2P : Two pole 3P : Three pole 4B : Four pole 4C : Four pole
							TM : Thermal Magnetic for Distribution Protection	125 : 16,20,25 32,40,50,63,80 100,125	250 : 32,63,100 125,160,180 200,225,250
							EN: Electronic Basic for Distribution Protection	400 : 250,315 350,400	250 : 32,63,100 160,250
							EM: Electronic Standard for Distribution Protection	630 : 400,500 800 : 500,630 700,800	400 : 250,400
							EVM: Electronic Standard for Motor Protection	630 : 400,500	3P : Three pole 4B : Four pole 4C : Four pole
							EMM: Electronic Standard for Motor Protection	630 : 400,500	3P : Three pole 4B : Four pole 4C : Four pole
							TM: Thermal Magnetic for Distribution Protection	TM/EN/EM	
							EN: Electronic Basic for Distribution Protection	1600 : 800,1000,1250,1600	3P : Three pole 4C : Four pole
							EM: Electronic Standard for Distribution Protection		

Note: ¹⁾ For customer needs beyond the technical requirements of the sample, you can contact the company's sales department or technical department as a special order processing.

The body and accessories should be written separately when ordering. If the user requires the factory to assemble the body and accessories, it must be specified when ordering, otherwise the factory will ship separately.

Motor protection is only applicable to 3P / 4P.

²⁾ 4B: Neutral poles without protection, can be operated with other three poles; 4C: Neutral poles with protection, can be operated with other three poles

11.1.2 Quick selection of DC circuit breaker

Current type	Frame current(A)	Breaking code	Release type	Rated current(A)	Poles	Special requirement			
DC	250	S	TM	125	2P	OTHER			
NM8N	250	S	TM	125	2P	OTHER			
							TM: Thermal Magnetic for Distribution Protection	125 : 16,20,25 32,40,50,63,80 100,125	
							B: 25kA C: 36kA S: 50kA Q: 70kA H: 100kA	250 : 125,160 180,200,225	
							TM: Thermal Magnetic for Distribution Protection	400 : 250,315 350,400	1P : One pole ¹⁾ 2P : Two pole 3P : Three pole 4P : Four pole
							630 : 400,500 800 : 500,630 700,800		
							TM: Thermal Magnetic for Distribution Protection	1600 : 800,1000 1250,1600	3P : Three pole 4P : Four pole

Note: ¹⁾ 1P / 2P is limited to 125 and 250 frame products.



11.1.3 Quick selection of Residual current breaker/Residual current protection module¹⁾

NM8N	L	-	250	S	TM	125	4C	A	RCD1	ALT
Residual current protection code	Frame current(A)	Breaking code ²⁾	Release Type ³⁾	Rated current(A) ⁴⁾	Poles	Residual current type code	Rated residual current code	Special requirement		
	125 250 400 630	C : 36kA S : 50kA Q : 70kA H : 100kA R : 150kA	TM: Thermal Magnetic for Distribution Protection EM: Electronic for Distribution Protection EMM: Electronic Standard for Motor Protection EMM: Electronic Basic for Motor Protection EMM: Electronic Standard for Motor Protection	TMM 125 : 16,20 250,32,40,50 63,80,100 125	EMM/EMM 3P : Three poles 4B : Four poles 4C : Four poles Residual current protection module has no neutral pole	Default: AC type A, A type	RCD1: 0.03-0.1-0.3-1A adjustable (for 125,250,400,630A) RCD2: 0.05-0.2-0.5-2A adjustable (for 125,250A) RCD3: 0.05-0.2-0.5-2A adjustable (suitable for 400,630A) RCD4: 0.1-0.3-1-2A adjustable (suitable for 400,630A)	Default: No special requirements ALT: Leakage alarm with trip ALNT: Leakage alarm without trip		

Note: ¹⁾ For customer needs beyond the technical requirements of the sample, you can contact the company's sales department or technical department as a special order processing.
The body and accessories should be written separately when ordering. If the user requires the factory to assemble the body and accessories, it must be specified when ordering, otherwise the factory will ship separately.
Motor protection is only applicable to 3P / 4P.
²⁾ Neutral poles without protection, can be operated with the other three phases;
³⁾ Residual current protection module selection does not have this code, for example: NM8NL-250 4C A RCD1 ALT means 250A frame, 4 poles, A type residual current protection, residual operating current 0.03-0.1-0.3-1A, with Residual current protection module with leakage alarm trip function.

11.1.4 Quick selection of switch disconnector

NM8N	SD	-	250	AC	125	2P	OTHER
Switch disconnector	Frame C current(A)	Release type	Frame current(A)	Poles	Special requirement		
	125 250 400 800 1600	AC: Alternating current DC: Direct current	125 : Default 250 : Default 400 : Default 800 : Default 1600 : Default	2P : Two-pole ¹⁾ 3P : Three-pole 4P : Four-pole			

Note: ¹⁾ 2P is only for 125 and 250 frame products.



1.1.2 NM8N accessory models selection table

Accessory type	Code	Specification	NM8N125	NM8N1250	NM8N400	NM8N400	NM8N630	NM8N800	NM8N1600
Auxiliary contact	AX	Universal	AX21-M8	AX21-M8 N	AX21-M8	AX21-M8 N	AX21-M8	AX21-M8 N	AX21-M8
		Neutral	AX21-M8 N		AX21-M8 N		AX21-M8 N		AX21-M8 N
Alarm contact	AL	Universal	AL21-M8 N	AL21-M8 N	AL21-M8 N	AL21-M8 N	AL21-M8 N	AL21-M8 N	AL21-M8 N
Shunt release	SHT	AC20V	SHT21-M8 AC48V	SHT22-M8 AC48V	SHT23-M8 AC48V	SHT24-M8 AC48V	SHT25-M8 AC48V	SHT26-M8 AC48V	SHT27-M8 AC48V
		AC220-240V	SHT21-M8 AC110V	SHT22-M8 AC110V	SHT23-M8 AC110V	SHT24-M8 AC110V	SHT25-M8 AC110V	SHT26-M8 AC110V	SHT27-M8 AC110V
		AC380-415V	SHT21-M8 AC220-240V	SHT22-M8 AC220-240V	SHT23-M8 AC220-240V	SHT24-M8 AC220-240V	SHT25-M8 AC220-240V	SHT26-M8 AC220-240V	SHT27-M8 AC220-240V
		DC24V	SHT21-M8 DC48V	SHT22-M8 DC48V	SHT23-M8 DC48V	SHT24-M8 DC48V	SHT25-M8 DC48V	SHT26-M8 DC48V	SHT27-M8 DC48V
		DC24V	SHT21-M8 DC110-120V	SHT22-M8 DC110-120V	SHT23-M8 DC110-120V	SHT24-M8 DC110-120V	SHT25-M8 DC110-120V	SHT26-M8 DC110-120V	SHT27-M8 DC110-120V
		DC24V	SHT21-M8 DC220V	SHT22-M8 DC220V	SHT23-M8 DC220V	SHT24-M8 DC220V	SHT25-M8 DC220V	SHT26-M8 DC220V	SHT27-M8 DC220V
		AC48V	UVI21-M8 AC48V	UVI22-M8 AC48V	UVI23-M8 AC48V	UVI24-M8 AC48V	UVI25-M8 AC48V	UVI26-M8 AC48V	UVI27-M8 AC48V
		AC110V	UVI21-M8 AC110V	UVI22-M8 AC110V	UVI23-M8 AC110V	UVI24-M8 AC110V	UVI25-M8 AC110V	UVI26-M8 AC110V	UVI27-M8 AC110V
		AC220-240V	UVI21-M8 AC220-240V	UVI22-M8 AC220-240V	UVI23-M8 AC220-240V	UVI24-M8 AC220-240V	UVI25-M8 AC220-240V	UVI26-M8 AC220-240V	UVI27-M8 AC220-240V
		AC380-415V	UVI21-M8 AC380-415V	UVI22-M8 AC380-415V	UVI23-M8 AC380-415V	UVI24-M8 AC380-415V	UVI25-M8 AC380-415V	UVI26-M8 AC380-415V	UVI27-M8 AC380-415V
		DC24V	UVI21-M8 DC24V	UVI22-M8 DC24V	UVI23-M8 DC24V	UVI24-M8 DC24V	UVI25-M8 DC24V	UVI26-M8 DC24V	UVI27-M8 DC24V
		DC48V	UVI21-M8 DC48V	UVI22-M8 DC48V	UVI23-M8 DC48V	UVI24-M8 DC48V	UVI25-M8 DC48V	UVI26-M8 DC48V	UVI27-M8 DC48V
		DC220V	UVI21-M8 DC110-120V	UVI22-M8 DC110-120V	UVI23-M8 DC110-120V	UVI24-M8 DC110-120V	UVI25-M8 DC110-120V	UVI26-M8 DC110-120V	UVI27-M8 DC110-120V
		DC220V	UVI21-M8 DC220V	UVI22-M8 DC220V	UVI23-M8 DC220V	UVI24-M8 DC220V	UVI25-M8 DC220V	UVI26-M8 DC220V	UVI27-M8 DC220V
		AC48V	UVI21-M8 AC48V	UVI22-M8 AC48V	UVI23-M8 AC48V	UVI24-M8 AC48V	UVI25-M8 AC48V	UVI26-M8 AC48V	UVI27-M8 AC48V
		AC110V	UVI21-M8 AC110V	UVI22-M8 AC110V	UVI23-M8 AC110V	UVI24-M8 AC110V	UVI25-M8 AC110V	UVI26-M8 AC110V	UVI27-M8 AC110V
		AC220-240V	UVI21-M8 AC220-240V	UVI22-M8 AC220-240V	UVI23-M8 AC220-240V	UVI24-M8 AC220-240V	UVI25-M8 AC220-240V	UVI26-M8 AC220-240V	UVI27-M8 AC220-240V
		AC380-415V	UVI21-M8 AC380-415V	UVI22-M8 AC380-415V	UVI23-M8 AC380-415V	UVI24-M8 AC380-415V	UVI25-M8 AC380-415V	UVI26-M8 AC380-415V	UVI27-M8 AC380-415V
		DC24V	UVI21-M8 DC24V	UVI22-M8 DC24V	UVI23-M8 DC24V	UVI24-M8 DC24V	UVI25-M8 DC24V	UVI26-M8 DC24V	UVI27-M8 DC24V
		DC48V	UVI21-M8 DC48V	UVI22-M8 DC48V	UVI23-M8 DC48V	UVI24-M8 DC48V	UVI25-M8 DC48V	UVI26-M8 DC48V	UVI27-M8 DC48V
DC220V	UVI21-M8 DC110-120V	UVI22-M8 DC110-120V	UVI23-M8 DC110-120V	UVI24-M8 DC110-120V	UVI25-M8 DC110-120V	UVI26-M8 DC110-120V	UVI27-M8 DC110-120V		
DC220V	UVI21-M8 DC220V	UVI22-M8 DC220V	UVI23-M8 DC220V	UVI24-M8 DC220V	UVI25-M8 DC220V	UVI26-M8 DC220V	UVI27-M8 DC220V		
Closing electromagnet	CEM	AC110V	CEM25-M8 AC110V	CEM25-M8 AC110V	CEM25-M8 AC110V	CEM25-M8 AC110V	CEM25-M8 AC110V	CEM25-M8 AC110V	
		AC220-240V	CEM25-M8 AC220-240V	CEM25-M8 AC220-240V	CEM25-M8 AC220-240V	CEM25-M8 AC220-240V	CEM25-M8 AC220-240V	CEM25-M8 AC220-240V	
		AC380-415V	CEM25-M8 AC380-415V	CEM25-M8 AC380-415V	CEM25-M8 AC380-415V	CEM25-M8 AC380-415V	CEM25-M8 AC380-415V	CEM25-M8 AC380-415V	
		DC24V	CEM25-M8 DC24V	CEM25-M8 DC24V	CEM25-M8 DC24V	CEM25-M8 DC24V	CEM25-M8 DC24V	CEM25-M8 DC24V	
		DC48V	CEM25-M8 DC48V	CEM25-M8 DC48V	CEM25-M8 DC48V	CEM25-M8 DC48V	CEM25-M8 DC48V	CEM25-M8 DC48V	
		DC110-120V	CEM25-M8 DC110-120V	CEM25-M8 DC110-120V	CEM25-M8 DC110-120V	CEM25-M8 DC110-120V	CEM25-M8 DC110-120V	CEM25-M8 DC110-120V	
		DC220V	CEM25-M8 DC220V	CEM25-M8 DC220V	CEM25-M8 DC220V	CEM25-M8 DC220V	CEM25-M8 DC220V	CEM25-M8 DC220V	
Motor-driven mechanism	MOD	AC110/DC110-120V	MOD21-M8 AC110/DC110-120V	MOD22-M8 AC110/DC110-120V	MOD23-M8 AC110/DC110-120V	MOD24-M8 AC110/DC110-120V	MOD25-M8 AC110/DC110-120V	MOD26-M8 AC110/DC110-120V	MOD27-M8 AC110/DC110-120V
		AC20V/DC220V	MOD21-M8 AC20/DC220V	MOD22-M8 AC20/DC220V	MOD23-M8 AC20/DC220V	MOD24-M8 AC20/DC220V	MOD25-M8 AC20/DC220V	MOD26-M8 AC20/DC220V	MOD27-M8 AC20/DC220V
		AC380-415V	MOD21-M8 AC380-415V	MOD22-M8 AC380-415V	MOD23-M8 AC380-415V	MOD24-M8 AC380-415V	MOD25-M8 AC380-415V	MOD26-M8 AC380-415V	MOD27-M8 AC380-415V
		DC24V	MOD21-M8 DC24V	MOD22-M8 DC24V	MOD23-M8 DC24V	MOD24-M8 DC24V	MOD25-M8 DC24V	MOD26-M8 DC24V	MOD27-M8 DC24V
Economic extended rotary handle	SRH	4P	SRH21-M8 3P	SRH22-M8 3P	SRH23-M8 3P	SRH24-M8 3P	SRH25-M8 3P	SRH26-M8 3P	SRH27-M8 3P
		4P	SRH21-M8 4P	SRH22-M8 4P	SRH23-M8 4P	SRH24-M8 4P	SRH25-M8 4P	SRH26-M8 4P	SRH27-M8 4P
		Thermal magnetic (T)	DRH21-M8 T	DRH22-M8 T	DRH23-M8 T	DRH24-M8 T	DRH25-M8 T	DRH26-M8 T	DRH27-M8 T
		Magnetic (M)	DRH21-M8 M	DRH22-M8 M	DRH23-M8 M	DRH24-M8 M	DRH25-M8 M	DRH26-M8 M	DRH27-M8 M
		Electronic (E)	DRH21-M8 E	DRH22-M8 E	DRH23-M8 E	DRH24-M8 E	DRH25-M8 E	DRH26-M8 E	DRH27-M8 E
		Switch	DRH21-M8 S	DRH22-M8 S	DRH23-M8 S	DRH24-M8 S	DRH25-M8 S	DRH26-M8 S	DRH27-M8 S
		Thermal magnetic(ED)	DRH21-M8 T	DRH22-M8 T	DRH23-M8 T	DRH24-M8 T	DRH25-M8 T	DRH26-M8 T	DRH27-M8 T
		Magnetic (M)	DRH21-M8 M	DRH22-M8 M	DRH23-M8 M	DRH24-M8 M	DRH25-M8 M	DRH26-M8 M	DRH27-M8 M
		Electronic (E)	DRH21-M8 E	DRH22-M8 E	DRH23-M8 E	DRH24-M8 E	DRH25-M8 E	DRH26-M8 E	DRH27-M8 E
		Switch	DRH21-M8 S	DRH22-M8 S	DRH23-M8 S	DRH24-M8 S	DRH25-M8 S	DRH26-M8 S	DRH27-M8 S
Extended rotary handle	ERH	Thermal magnetic (T)	ERH21-M8 T	ERH22-M8 T	ERH23-M8 T	ERH24-M8 T	ERH25-M8 T	ERH26-M8 T	ERH27-M8 T
		Magnetic (M)	ERH21-M8 M	ERH22-M8 M	ERH23-M8 M	ERH24-M8 M	ERH25-M8 M	ERH26-M8 M	ERH27-M8 M
		Electronic (E)	ERH21-M8 E	ERH22-M8 E	ERH23-M8 E	ERH24-M8 E	ERH25-M8 E	ERH26-M8 E	ERH27-M8 E
		Switch	ERH21-M8 S	ERH22-M8 S	ERH23-M8 S	ERH24-M8 S	ERH25-M8 S	ERH26-M8 S	ERH27-M8 S
		disconnector(SD)	ERH21-M8 SD	ERH22-M8 SD	ERH23-M8 SD	ERH24-M8 SD	ERH25-M8 SD	ERH26-M8 SD	ERH27-M8 SD
Extended handle	LHD	3P/4P	LHD21-M8 3P	LHD22-M8 3P	LHD23-M8 3P	LHD24-M8 3P	LHD25-M8 3P	LHD26-M8 3P	LHD27-M8 3P
		4P	LHD21-M8 4P	LHD22-M8 4P	LHD23-M8 4P	LHD24-M8 4P	LHD25-M8 4P	LHD26-M8 4P	LHD27-M8 4P
Locking system	KLK	3P/4P	KLK21-M8 3P	KLK22-M8 3P	KLK23-M8 3P	KLK24-M8 3P	KLK25-M8 3P	KLK26-M8 3P	KLK27-M8 3P
		4P	KLK21-M8 4P	KLK22-M8 4P	KLK23-M8 4P	KLK24-M8 4P	KLK25-M8 4P	KLK26-M8 4P	KLK27-M8 4P
Mechanical interlock	MIT	3P	MIT21-M8 3P	MIT22-M8 3P	MIT23-M8 3P	MIT24-M8 3P	MIT25-M8 3P	MIT26-M8 3P	MIT27-M8 3P
		4P	MIT21-M8 4P	MIT22-M8 4P	MIT23-M8 4P	MIT24-M8 4P	MIT25-M8 4P	MIT26-M8 4P	MIT27-M8 4P
Short terminal cover	TCV	3P	TCV21-M8 3P	TCV22-M8 3P	TCV23-M8 3P	TCV24-M8 3P	TCV25-M8 3P	TCV26-M8 3P	TCV27-M8 3P
		4P	TCV21-M8 4P	TCV22-M8 4P	TCV23-M8 4P	TCV24-M8 4P	TCV25-M8 4P	TCV26-M8 4P	TCV27-M8 4P
Long terminal cover	TCE	3P	TCE21-M8 3P	TCE22-M8 3P	TCE23-M8 3P	TCE24-M8 3P	TCE25-M8 3P	TCE26-M8 3P	TCE27-M8 3P
		4P	TCE21-M8 4P	TCE22-M8 4P	TCE23-M8 4P	TCE24-M8 4P	TCE25-M8 4P	TCE26-M8 4P	TCE27-M8 4P
		5P	TCE21-M8 5P	TCE22-M8 5P	TCE23-M8 5P	TCE24-M8 5P	TCE25-M8 5P	TCE26-M8 5P	TCE27-M8 5P
		6P	TCE21-M8 6P	TCE22-M8 6P	TCE23-M8 6P	TCE24-M8 6P	TCE25-M8 6P	TCE26-M8 6P	TCE27-M8 6P
Front connection plate	FCP	3P	FCP21-M8 3P	FCP22-M8 3P	FCP23-M8 3P	FCP24-M8 3P	FCP25-M8 3P	FCP26-M8 3P	FCP27-M8 3P
		4P	FCP21-M8 4P	FCP22-M8 4P	FCP23-M8 4P	FCP24-M8 4P	FCP25-M8 4P	FCP26-M8 4P	FCP27-M8 4P
		5P	FCP21-M8 5P	FCP22-M8 5P	FCP23-M8 5P	FCP24-M8 5P	FCP25-M8 5P	FCP26-M8 5P	FCP27-M8 5P
		6P	FCP21-M8 6P	FCP22-M8 6P	FCP23-M8 6P	FCP24-M8 6P	FCP25-M8 6P	FCP26-M8 6P	FCP27-M8 6P
		7P	FCP21-M8 7P	FCP22-M8 7P	FCP23-M8 7P	FCP24-M8 7P	FCP25-M8 7P	FCP26-M8 7P	FCP27-M8 7P
		8P	FCP21-M8 8P	FCP22-M8 8P	FCP23-M8 8P	FCP24-M8 8P	FCP25-M8 8P	FCP26-M8 8P	FCP27-M8 8P
		9P	FCP21-M8 9P	FCP22-M8 9P	FCP23-M8 9P	FCP24-M8 9P	FCP25-M8 9P	FCP26-M8 9P	FCP27-M8 9P
		10P	FCP21-M8 10P	FCP22-M8 10P	FCP23-M8 10P	FCP24-M8 10P	FCP25-M8 10P	FCP26-M8 10P	FCP27-M8 10P
Rear connection plate	RCP	3P	RCP21-M8 3P	RCP22-M8 3P	RCP23-M8 3P	RCP24-M8 3P	RCP25-M8 3P	RCP26-M8 3P	RCP27-M8 3P
		4P	RCP21-M8 4P	RCP22-M8 4P	RCP23-M8 4P	RCP24-M8 4P	RCP25-M8 4P	RCP26-M8 4P	RCP27-M8 4P
Cage clamp terminal	CCT	1-hole	CCT21-M8	MC22-M8(1)	CCT23-M8	MC23-M8(2)	CCT24-M8	MC24-M8(2)	CCT25-M8
		1-hole	CCT21-M8	MC22-M8(1)	CCT23-M8	MC23-M8(2)	CCT24-M8	MC24-M8(2)	CCT25-M8
		3-hole	CCT21-M8	MC22-M8(3)	CCT23-M8	MC23-M8(4)	CCT24-M8	MC24-M8(4)	CCT25-M8
		4-hole	CCT21-M8	MC22-M8(4)	CCT23-M8	MC23-M8(4)	CCT24-M8	MC24-M8(4)	CCT25-M8
		4-hole	CCT21-M8	MC22-M8(6)	CCT23-M8	MC23-M8(4)	CCT24-M8	MC24-M8(6)	CCT25-M8
Cable connector	MC	3-hole	MC21-M8	MC22-M8(2)	MC23-M8(2)	MC24-M8(2)	MC25-M8(2)	MC26-M8(2)	MC27-M8(2)
		3-hole	MC21-M8	MC22-M8(2)	MC23-M8(2)	MC24-M8(2)	MC25-M8(2)	MC26-M8(2)	MC27-M8(2)
		4-hole	MC21-M8	MC22-M8(2)	MC23-M8(2)	MC24-M8(2)	MC25-M8(2)	MC26-M8(2)	MC27-M8(2)
		4-hole	MC21-M8	MC22-M8(2)	MC23-M8(2)	MC24-M8(2)	MC25-M8(2)	MC26-M8(2)	MC27-M8(2)
		4-hole	MC21-M8	MC22-M8(6)	MC23-M8(4)	MC24-M8(2)	MC25-M8(6)	MC26-M8(6)	MC27-M8(1000/1250)
Plug-in base	PIA	4P Front connection	PIA21F-M8 3P	PIA22F-M8 3P	PIA23F-M8 3P	PIA24F-M8 3P	PIA25F-M8 3P	PIA26F-M8 3P	PIA27F-M8 3P
		3P Rear connection	PIA21B-M8 3P	PIA22B-M8 3P	PIA23B-M8 3P	PIA24B-M8 3P	PIA25B-M8 3P	PIA26B-M8 3P	PIA27B-M8 3P
		4P Rear connection	PIA21B-M8 4P	PIA22B-M8 4P	PIA23B-M8 4P	PIA24B-M8 4P	PIA25B-M8 4P	PIA26B-M8 4P	PIA27B-M8 4P
		Thermal magnetic (T)	PIASD21-M8 T	PIASD22-M8 T	PIASD23-M8 T	PIASD24-M8 T	PIASD25-M8 T	PIASD26-M8 T	PIASD27-M8 T
		Electronic (E)	PIASD21-M8 E	PIASD22-M8 E	PIASD23-M8 E	PIASD24-M8 E	PIASD25-M8 E	PIASD26-M8 E	PIASD27-M8 E
Draw out base	DOB	3P Front connection	DOB21F-M8 3P	DOB22F-M8 3P	DOB23F-M8 3P	DOB24F-M8 3P	DOB25F-M8 3P	DOB26F-M8 3P	DOB27F-M8 3P
		3P Rear connection	DOB21B-M8 3P	DOB22B-M8 3P	DOB23B-M8 3P	DOB24B-M8 3P	DOB25B-M8 3P	DOB26B-M8 3P	DOB27B-M8 3P
		4P Rear connection	DOB21B-M8 4P	DOB22B-M8 4P	DOB23B-M8 4P	DOB24B-M8 4P	DOB25B-M8 4P	DOB26B-M8 4P	DOB27B-M8 4P
		Thermal magnetic (T)							