

DELIXI
ELECTRIC

Making It Happen

NAVIGATOR SERIES

BORN TO IMPRESS

Great shape | Priced right | Built to last

Air Circuit Breaker | Molded Case Circuit Breaker | Final Distribution | Motor Control and Management
Automatic Transfer Switch | Capacitor | Electrical Meters and Instruments



Delixi Electric
Navigator Series Catalog

Product Overview

■ Main Functions

Short circuit protection, overload protection, and isolation function

■ Standard

GB/T10963.1 IEC/EN60898-1

■ Certificate

CCC

■ Main Features

Rated operating current (V)	1P: 230/400 AC
	1P+N: 230 AC
	2P, 3P, 3P+N, 4P: 400 AC
Rated current (A)	1-63
Rated freq. (Hz)	50
Number of poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Breaking capacity (kA)	6



Model Guide

Product name	Breaking capacity	Number of poles	Trip type	Rated current	
DZ47s	N	1	C	6	
	N: 6kA	1: 1P 2: 2P 3: 3P 4: 4P 5: 1P+N 6: 3P+N	B: B type C: C type D: D type	1: 1A 2: 2A 3: 3A 4: 4A 6: 6A 8: 8A 10: 10A 13: 13A	16: 16A 20: 20A 25: 25A 32: 32A 40: 40A 50: 50A 63: 63A

Note: This product can be assembled with accessories OF, SD, MSN, MV, MN, MVMN, FF, FS, MO (active), and MOWY (passive)

Technical Parameters

■ Electrical Characteristics

Rated insulation voltage U_i (V)	500	Isolation function	Yes
1P, 1P+N (V)	230/400 AC	Pollution degree	2
Max. operating voltage $U_{e_{max}}$ (V)	230AC	Trip form	Thermomagnetic trip
2P, 3P, 4P, 3P+N (V)	400 AC	Thermomagnetic trip characteristics	B type curve (3In~5In) ■
Rated short circuit capacity I_{cn} (IEC/EN60898) (kA)	6		C type curve (5In~10In) ■
Rated impulse withstand voltage U_{imp} (1.2/50) (kV)	4		D type curve (10In~14In) ■
Dielectric test voltage (kV)	2kV(50/60Hz, 1 minute)	Electrical and mechanical accessories	■

Mechanical Properties

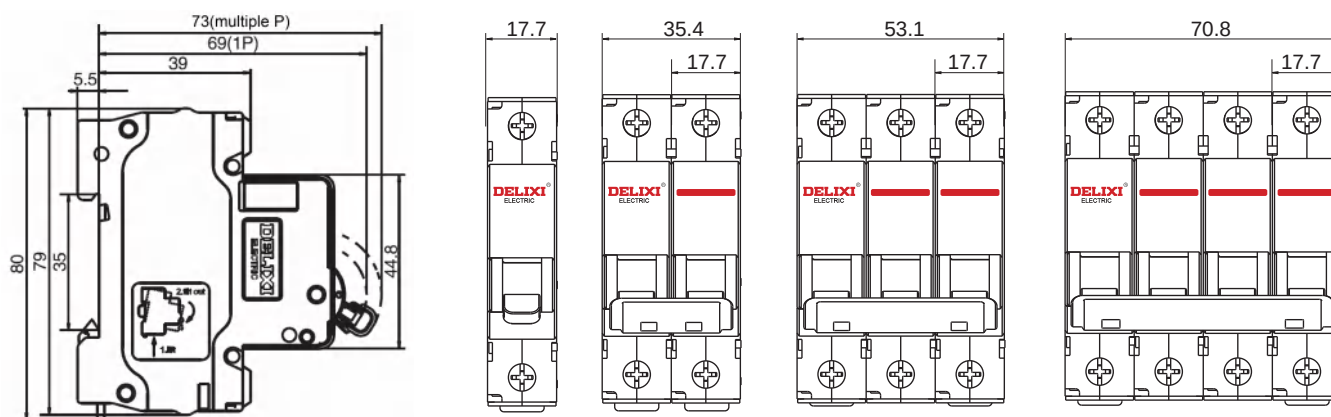
Handle		Red, transfer printing indicator ON-OFF position	Vibration resistance (IEC/EN 60068-2-6)	Installed in places where there is no obvious vibration and impact
Mechanical life	Times	20000		Class 2, 28 cycles
Electrical life	Times	10000	Resistance to damp heat (IEC 60068-2)	Damp heat °C/RH When the temperature is 55°C, the relative humidity is 90%~96% When the temperature is 25°C, the relative humidity is 95%~100%
Protection grade		Installed in the power distribution box: IP40 Installed directly: IP20	Reference ambient temperature °C	30°C
Resistance to mechanical impact		30g, 3 impacts, duration time 11ms (installed in places where there is no obvious vibration and impact)	Ambient temperature (mean daily temperature ≤ +35°C) °C	-35°C~+70°C
			Storage temperature °C	-40°C~+85°C

Installation Characteristics

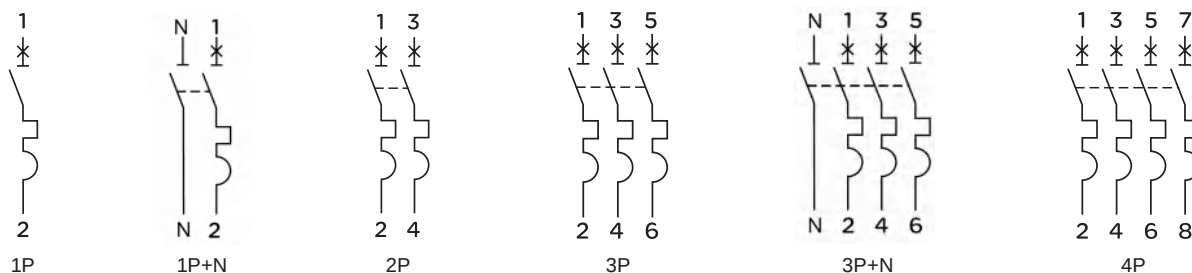
Terminal block form	U shaped terminal block	Tools	Cross screwdriver or slotted screwdriver
Max. wiring capacity	Current grade 1-63A: 25mm ²	Installation	Installed in the standard DIN rail (35mm)
Max. limit torque	Current grade 1-63A: 2.5 N.m	Inlet method	Top and bottom

Outline and Installation Dimensions

Dimensional Drawings



Wiring Diagram



Product Overview

■ Main Functions

Short circuit protection, overload protection, leakage protection, isolation function, over-voltage protection (only for over-voltage type products)

■ Standards

GB/T 16917.1, IEC61009-1

■ Certification

CCC

■ Main Characteristics

Rated operating voltage (V)	Ue	1P+N, 2P:230 AC 3P, 3P+N, 4P:400 AC
Rated current (A)		6-63
Rated frequency (Hz)	In	50
Number of poles		1P+N, 2P, 3P, 3P+N, 4P
Breaking capacity (kA)	Icn	6
Rated residual operating current (mA)	IΔn	30, 50, 75, 100, 300
Over-voltage protection function (V)		(280±14) VAC (1P + N, 2P, Type C products only)



Product Features

- Small size, space-saving: Integer width, volume reduced by 30% ~ 50%, saving cabinet space and cost
- Large hole wiring: 25 mm² large hole wiring, more convenient wiring
- Complete specifications: Add AC leakage protection and lower incoming line specifications for more comprehensive protection and more flexible wiring.
- Quick closing + blowout arc baffle design: longer service life, more assured opening and closing operation

Product Selection

Product name	Inlet type	Number of poles	Trip type	Rated current	Residual current	Other functions
DZ47sLES	☐	1	C	6	☐	☐
	Default: Top inlet	1:1P+N 2:2P 3:3P 4:4P 6:3P+N	B: Type B C: Type C D: Type D	6:6A 10:10A 16:16A 20:20A 25:25A 32:32A	Default: 30mA R10:10mA R50:50mA R75:75mA R100:100mA R300:300mA	Default: AC leakage protection, no over-voltage protection A: A leakage protection, no over-voltage protection G: AC leakage protection, over-voltage protection
	R: Bottom inlet	1:1P+N 2:2P		40:40A 50:50A 63:63A		

Note: This product can be assembled with accessories: OF, SD, MSN, MV, MN, MVMN, FF, FS, MO (active), MOWY (passive)

Technical Parameters

Electrical Characteristics

Rated operating voltage U_e	1P	(V)	-
	1P+N	(V)	230 AC
	2P, 3P, 3P+N, 4P	(V)	400 AC (2P:230 AC)
Rated insulation voltage U_i		(V)	500
Maximum operating voltage U_{Bmax}	1P, 1P+N	(V)	230 AC
	2P, 3P, 4P, 3P+N	(V)	400 AC (2P:230 AC)
	1P	(V)	-
Rated short-circuit capacity I_{cn}		(kA)	6
Rated impulse withstand voltage $U_{imp}(1.2/50)$		(kV)	4

Dielectric test voltage	(kV)	2kV(50/60Hz, 1 minute)
Isolation function		Yes (except 1p + N and 3p + N)
Pollution level		2
Use categories		A
Tripping form		Thermomagnetic trip
Thermomagnetic tripping characteristics	B type curve (3In~5In)	■
	C type curve (5In~10In)	■
	D type curve (10In~14In)	■
Electrical and mechanical accessories		■

Mechanical Characteristics

Mechanical durability Times	20000
Electrical durability Times	10000
Protection class	Installed in the distribution box: P40 Direct installation: IP20
Mechanical shock resistance	30g, 3 shocks, duration 11ms (Where there is no significant vibration and shock)
Vibration resistance (IEC/EN 60068-2-6)	Where there is no significant vibration or shock

Resistance to heat and humidity (IEC 60068-2)	Damp heat °C/RH	Class 2, 28 cycles, Temperature 55°C, relative humidity 90% ~ 96% Temperature 25°C, relative humidity 95 ~ 100%
Rated ambient temperature	°C	30°C
Ambient temperature (daily average temperature $\leq +35$ °C)	°C	-35°C~+70°C
Storage temperature	°C	-40°C~+85°C

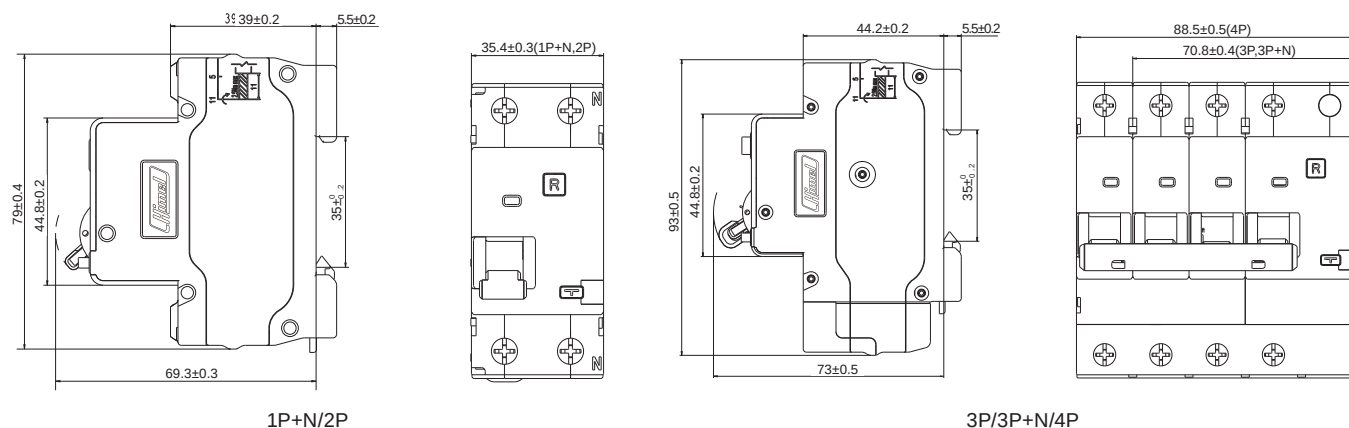
Installation Characteristics

Terminal form	U terminal block
Maximum wiring capacity	Current class 1-32(A) Current class 40-63(A)
Maximum limit torque	(N.m) Current class 40-63(A):2.5

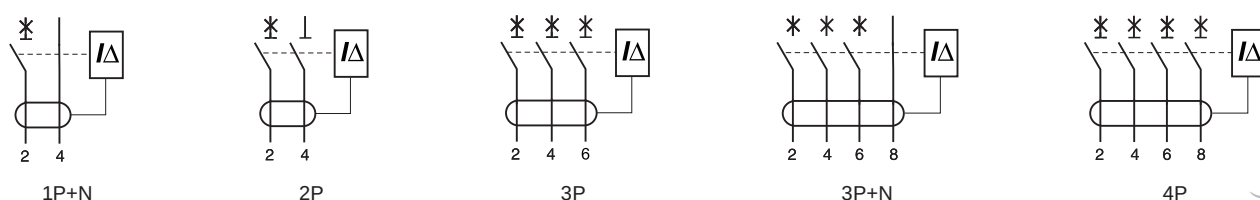
Tool	Cross head screwdriver or flat head screwdriver
Installation	Installed in the standard DIN rail (35mm)
Line incoming type	Top inlet (all poles) Bottom inlet (only 1P+N/ 2P Specification product)

Outline and Installation Dimensions

Dimensional Drawing



Wiring Diagram



Product Overview

■ Main Functions

Short circuit protection, overload protection, leakage protection, isolation function, over-voltage protection (only for over-voltage type products)

■ Standards

GB/T16917.1 IEC61009-1

■ Certification

CCC

■ Main Characteristics

Rated operating voltage (V)	1P+N, 2P:230 AC 3P, 3P+N, 4P:400 AC
Rated current (A)	6-63
Rated frequency (Hz)	50
Number of poles	1P+N, 2P, 3P, 3P+N, 4P
Breaking capacity (kA)	6
Rated residual operating current (mA)	30, 50, 75, 100, 300
Overvoltage protection function (V)	(280±14) VAC (1P + N, 2P, Type C products only)



Product Selection

Product name	Breaking capacity	Number of poles	Trip type	Rated current	Residual current	Other functions
DZ47sLE	N	1	C	6		G
	N:6kA	*1:1P+N *2:2P 3:3P 6:3P+N 5:4P	*C: Type C *D: Type D	*6:6A *10:10A *16:16A *20:20A *25:25A *32:32A *40:40A *50:50A *63:63A	*Default: 30mA R50:50mA R75:75mA R100:100mA R300:300mA	Default: No over-voltage protection G: Over-voltage protection

Note: This product can be assembled with accessories: OF, SD, MSN, MV, MN, MVMN, FF, FS, MO (active), MOWY (passive)

Technical Parameters

■ Electrical Characteristics

Rated insulation voltage U_i	(V)	500	Pollution level	2
Maximum Operating voltage U_{Bmax}	1P+N, 2P (V)	230 AC	Tripping form	Thermomagnetic trip
	3P, 3P+N, 4P (V)	400 AC		
Rated short-circuit capacity I_{cn} (IEC/EN60898) (kA)		6	Thermomagnetic tripping characteristics	B type curve (3I _n ~5I _n) -
Rated impulse withstand voltage $U_{imp}(1.2/50)$ (kV)		4		C type curve (5I _n ~10I _n) ■
Dielectric test voltage (kV)		2kV(50/60Hz, 1min)		D type curve (10I _n ~14I _n) ■
Isolation function		Yes (except 1p + N and 3p + N)	Electrical and mechanical accessories	■

Mechanical Characteristics

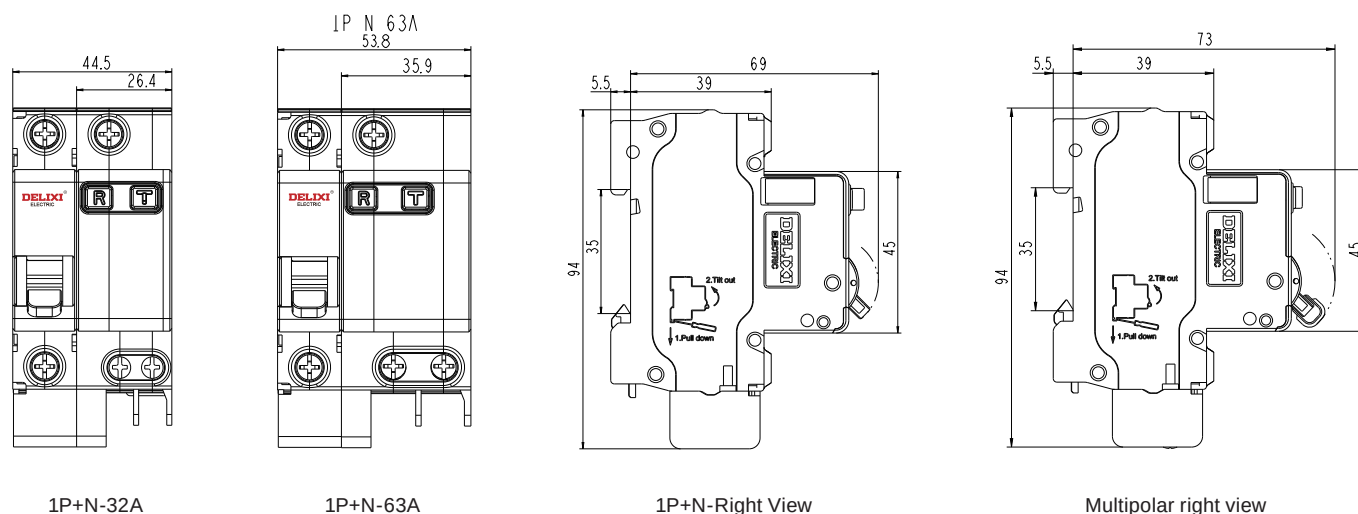
Trip indication		There is a residual current tripping indication on DZ47sLE, and the reset button pops up, which is a leakage tripping.	
Manual control	Overcurrent fault	Simultaneous reset of circuit breaker and residual current operated device	
	Leakage fault	The residual current device resets first followed by the circuit breaker	
Handle		Red, pad print indicates ON-OFF position	
Mechanical durability	Times	20000	
Electrical durability	Times	10000	
Degree of protection	Installed in the distribution box	IP40	
	Direct installation	IP20	
Mechanical shock resistance		30g, 3 shocks, duration 11ms (where there is no significant vibration or shock)	
Vibration resistance (IEC/EN 60068-2-6)		Where there is no significant vibration or shock	
Resistance to heat and humidity (IEC 60068-2)		Damp heat °C/RH	Class 2, 28 cycles, Temperature 55°C, relative humidity 90% ~ 96% Temperature 25°C, relative humidity 95% ~ 100%
Rated ambient temperature		°C	30°C
Operating ambient temperature (daily average temperature ≤ + 35°C)		°C	-35°C~+70°C
Storage temperature		°C	-40°C~+85°C

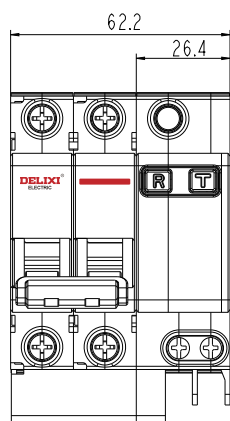
Installation Characteristics

Terminal form	U terminal block	Tool	Cross head screwdriver or flat head screwdriver
Maximum wiring capacity	Current class 6-32A: 16mm ² Current class 40-63A: 25mm ²	Installation	Installed in the standard DIN rail (35mm)
Maximum limit torque	Current class 6-32A: 2 N.m Current class 40-63A: 2.5 N.m	Line incoming type	Top

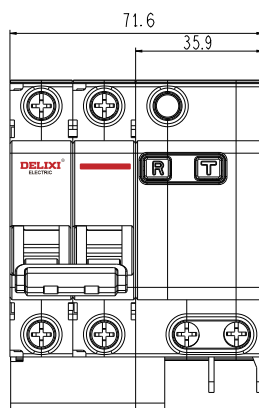
Outline and Installation Dimensions

Dimensional Drawing

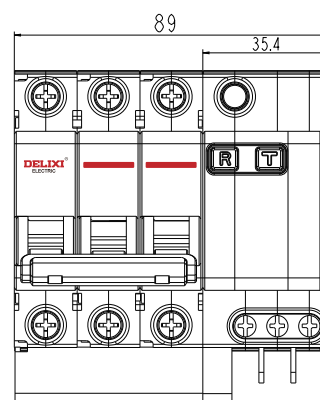




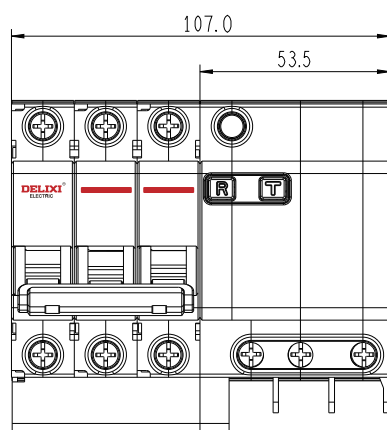
2P-32A



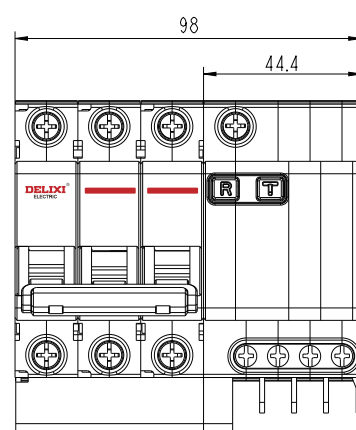
2P-63A



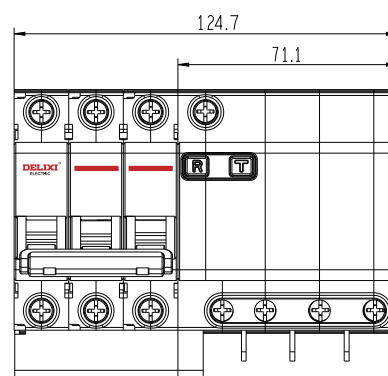
3P-32A



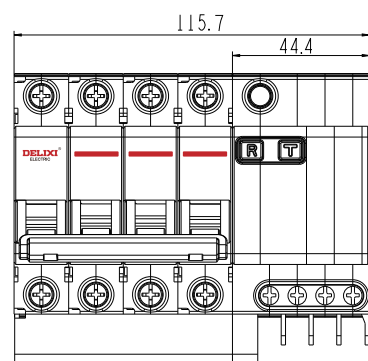
3P-63A



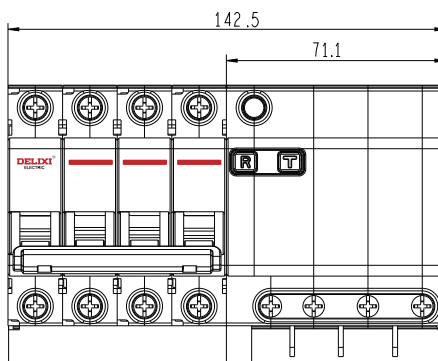
3P+N-32A



3P+N-63A

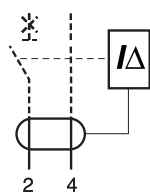


4P-32A

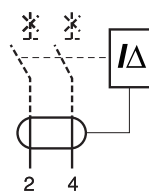


4P-63A

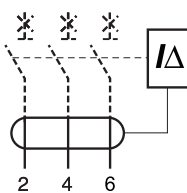
■ Wiring Diagram



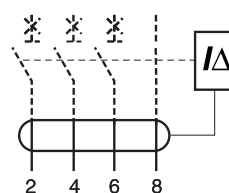
1P+N



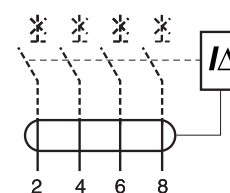
2P



3P



3P+N



4P

DELIXI
ELECTRIC

NAVIGATOR
SERIES



CDPZ30S Series Lighting Distribution Box

Natural Excellent

Artistic Appearance Low Cost Good Quality

Artistic Appearance

With aesthetic inspiration, create the soul of quality. Element D unifies the exterior design style, with a new layout for more identification, putting the industrial aesthetics into the exceptional visual experience

Low Cost

Every experience is meticulous, and NAVIGATION series carries the honor. With excellent performance, sales network all over the country, 400 service hotline and after-sales team provide strong support, and the cost performance is outstanding.

Good Quality

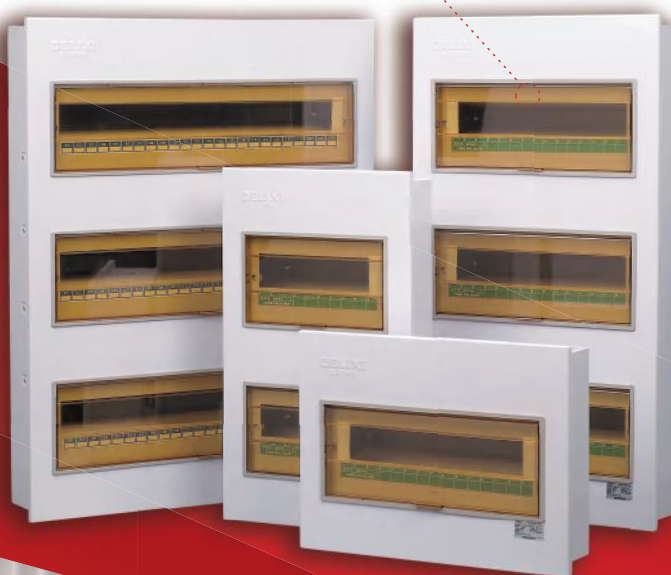
Process guarantees the quality, and the details interpret the brand. With innovative platform design, focus on details with sustainable innovation. With safe and durable products, assist every navigator breaks the predicament and move forward through breaking the waves.

New Creation



Innovative Design, Navigator Platform

Elegant and exquisite appearance design is very suitable for modern living. Humanized guide rail design and arc fillet design make installation more convenient and use safer!



Ingenuity Production



Innovation adopts many new technologies and ingenuity production

Adopt integral stretching form, stable structure;



Adopt external bending form and lap welding, high mechanical strength and stability!



Cover four corners of the arc stretching molding, no burrs, safe bright, beautiful.



Practical Choice



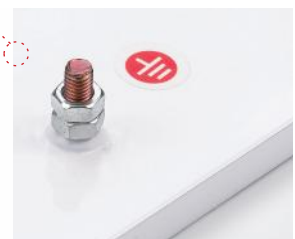
Strong, Durable and Practical Choice

High quality stainless steel box material, firm box



The mask is made of high flame retardant PC material, which is safe and has no hidden danger.

Full electrostatic spraying surface treatment, corrosion resistance and durability; Multiple grounding devices, practical and safe!



Product Overview

CDPZ30s series lighting distribution box is suitable for apartments, villas, hotels, commercial buildings and other places. It is used together with the modular low-voltage distribution products of Delixi Electric to provide a safe, stable and complete indoor low-voltage terminal distribution solution for developers, panel factories and terminal users.



Product Selection

Product name		Loop		Single and double row	Iron sheet thickness
CDPZ30s	R	15		D	12
	M: Surface installation	4:4 loop	24:24 loop	Double rows for 20 circuits and 24 circuits by default "D" added as suffix of single row specification	Default: Single row 1.0mm for 4-20 circuits
		6:6 loop	30:30 loop		
	R: Flush installation	8:8 loop	36:36 loop		J: Single row 0.8mm for 4-20 circuits
		10:10 loop	45:45 loop		Double row for 20 circuits
		12:12 loop	54:54 loop		– 80 circuits 1.0mm
		15:15 loop	60:60 loop		12:1.2mm
		18:18 loop	72:72 loop		
		20:20 loop	80:80 loop		

Technical Parameters

Rated operating voltage	230/400V AC
Maximum rated operating current	100A
Transparent door	Open up 150°
Box Material	> The transparent door uses high flame retardant PC material, fireproof and spontaneous combustion, brown color (PAL8001) > The panel uses cold-rolled steel sheet with electrostatic plastic spraying on the surface, which is firm and corrosion resistant, milky white color (RAL9003) > The bottom box uses cold-rolled steel plate with inner folding design. > The surface uses electrostatic spraying, which is durable and has excellent corrosion resistance.
Installation and wiring	> Knock-off holes are provided at the upper and lower parts of the bottom box, so it is convenient for the wires be inserted in and out. > There is a gap between the bottom box and the guide rail to meet the bottom wiring requirements of customers > Fine adjustment of the guide rail depth in the vertical direction for accurate installation
Standards	GB/T 17466.1, GB/T 17466.24
Protection level	IP30

Accessories

Number of rows	Number of ways	Surface installation(R) - order number		
		Thickness 0.8mm	Thickness 1.0mm	Thickness 1.2mm
Single row	4	CDPZ30SR4J	CDPZ30SR4	CDPZ30SR412
	6	CDPZ30SR6J	CDPZ30SR6	CDPZ30SR612
	8	CDPZ30SR8J	CDPZ30SR8	CDPZ30SR812
	10	CDPZ30SR10J	CDPZ30SR10	CDPZ30SR1012
	12	CDPZ30SR12J	CDPZ30SR12	CDPZ30SR1212
	15	CDPZ30SR15J	CDPZ30SR15	CDPZ30SR1512
	18	CDPZ30SR18J	CDPZ30SR18	CDPZ30SR1812
	20	CDPZ30SR20DJ	CDPZ30SR20D	CDPZ30SR20D12
	24	/	CDPZ30SR24DJ	CDPZ30SR24D12
Double row	20	/	CDPZ30SR20J	CDPZ30SR2012
	24	/	CDPZ30SR24J	CDPZ30SR2412
	30	/	CDPZ30SR30J	CDPZ30SR3012
	36	/	CDPZ30SR36J	CDPZ30SR3612
	40	/	CDPZ30SR40J	CDPZ30SR4012
Three rows	45	/	CDPZ30SR45J	CDPZ30SR4512
	54	/	CDPZ30SR54J	CDPZ30SR5412
	60	/	CDPZ30SR60J	CDPZ30SR6012
Four rows	72	/	CDPZ30SR72J	CDPZ30SR7212
	80	/	CDPZ30SR80J	CDPZ30SR8012
Number of rows	Number of ways	Flush installation(M) - order number		
		Thickness 0.8mm	Thickness 1.0mm	Thickness 1.2mm
Single row	4	CDPZ30SM4J	CDPZ30SM4	CDPZ30SM412
	6	CDPZ30SM6J	CDPZ30SM6	CDPZ30SM612
	8	CDPZ30SM8J	CDPZ30SM8	CDPZ30SM812
	10	CDPZ30SM10J	CDPZ30SM10	CDPZ30SM1012
	12	CDPZ30SM12J	CDPZ30SM12	CDPZ30SM1212
	15	CDPZ30SM15J	CDPZ30SM15	CDPZ30SM1512
	18	CDPZ30SM18J	CDPZ30SM18	CDPZ30SM1812
	20	CDPZ30SM20DJ	CDPZ30SM20D	CDPZ30SM20D12
	24	/	CDPZ30SM24DJ	CDPZ30SM24D12
Double row	20	/	CDPZ30SM20J	CDPZ30SM2012
	24	/	CDPZ30SM24J	CDPZ30SM2412
	30	/	CDPZ30SM30J	CDPZ30SM3012
	36	/	CDPZ30SM36J	CDPZ30SM3612
	40	/	CDPZ30SM40J	CDPZ30SM4012
Three rows	45	/	CDPZ30SM45J	CDPZ30SM4512
	54	/	CDPZ30SM54J	CDPZ30SM5412
	60	/	CDPZ30SM60J	CDPZ30SM6012
Four rows	72	/	CDPZ30SM72J	CDPZ30SM7212
	80	/	CDPZ30SM80J	CDPZ30SM8012



■ Component Description



Zero row/Ground row

- High quality brass H59, higher purity and better conductivity
- The large number of wiring terminals can meet the diversified selection requirements of users for wiring to a greater extent.



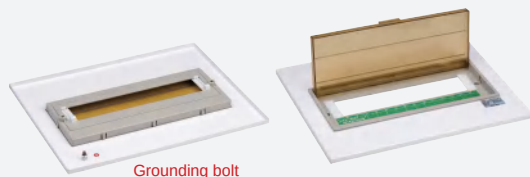
Install the guide rail

- Adopt integrated wide guide rail structure design, and the overall structure is more stable.
- Long slot design for easy screw installation provides more convenience for customers.



Panel group diagram

- Adopt integral stretch forming
- Smooth transition at four corners, beautiful appearance, safer packing, transportation and installation.
- The panel is equipped with independent grounding bolts to ensure grounding continuity.



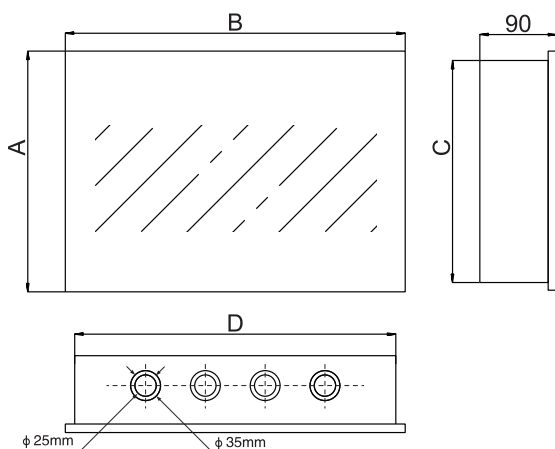
Bottom box group drawing

- Large operation space, convenient wiring and higher construction efficiency
- Adopt external bending form and electric welding in overlapping mode, with high mechanical strength and strong stability.
- The bottom box and the cover are equipped with independent grounding bolts respectively.



Outline and Installation Dimensions

■ Flush Installation



■ Surface Installation

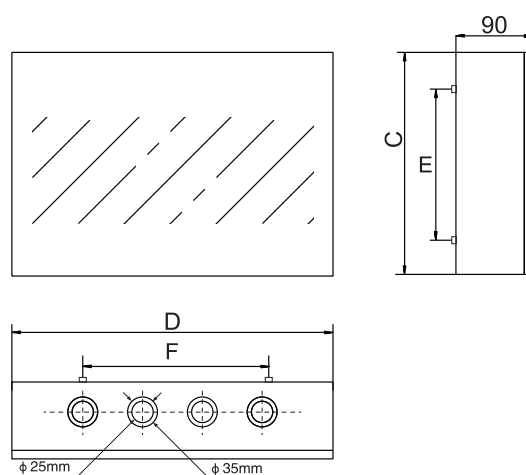


Table of installation dimensions

Number of rows	Number of ways	Flush panel size mm		Size of flush (surface) box mm		Surface Installation holes size mm		Number and size of zero row terminal holes mm	Number and size of ground row terminal holes mm	Ground row terminal notes
		A	B	C	D	E	F			
Single row	4	175	155	150	130	90	70	/	/	/
	6	225	198	200	173	105	83	(1*φ6+5*φ5)*1	(1*φ6+5*φ5)*1	One zero one ground 6 holes*1 piece
	8	225	245	200	220	105	130			
	10	285	289	260	264	150	138			
	12	285	325	260	300	150	174			
	15	285	379	260	354	150	227	(1*φ6+8*φ5)*1	(1*φ6+8*φ5)*1	One zero one ground 9 holes*1 piece
	18	285	433	260	408	150	282			
	20	285	469	260	444	150	318	(1*φ6+8*φ5)*2	(1*φ6+5*φ5)*2	Two zero 9 holes * 1 piece; Two grounds 6 holes and 1 piece
Double row	24	285	540	260	516	150	390			
	20	485	289	460	264	350	138			
	24	485	325	460	300	350	174			
	30	485	379	460	354	350	227			
	36	485	433	460	408	350	282			
Three rows	40	485	469	460	444	350	318			
	45	690	378	665	354	555	227	(1*φ6+8*φ5)*2 (1*φ6+5*φ5)*3	(1*φ6+5*φ5)*5	Two zero 9 holes * 1 piece; Two grounds 6 holes and 1 piece One zero one ground, 6 holes, 3 pieces
	54	690	430	665	408	555	282			
Four rows	60	690	468	665	444	555	318			
	72	895	432	870	408	760	282	(1*φ6+8*φ5)*2 (1*φ6+5*φ5)*5	(1*φ6+5*φ5)*7	Two zero 9 holes * 1 piece; Two grounds 6 holes and 1 piece One zero one ground, 6 holes, 5 pieces
	80	895	468	870	444	760	318			



DELIXI
ELECTRIC

NAVIGATOR
SERIES



New CJX2S Motor Control and Protection Product

Natural Excellent

Good Core Selected Material Durable Quality

Good Core

With advanced technology platform, guarantee the high performance of the product from the design source.

Selected Material

The process guarantees the quality, focusing on the details; the full series is made of high-quality material with new design; every experience is meticulous.

Durable Quality

Facing the Made in China 2025, the market has proposed higher standards for all aspects of electrical products, and the NAVIGATOR is launched to the market to protect the electricity safety of thousands of households.

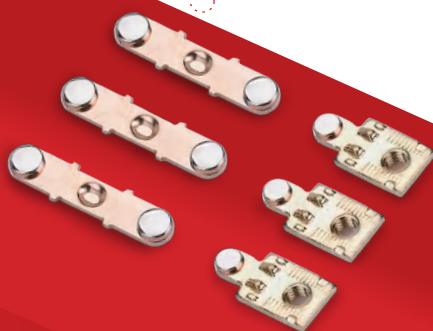


Reliable and Durable for Peace of Mind

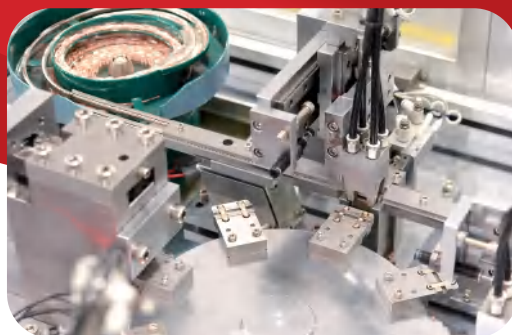
Excellence Interprets Quality



With advanced technology platform,
The main circuit contact plate is made of high-quality copper,
The application of electric heating industry is more stable



With silver dot technology and material upgrading and more
resistant to arc impact, the electrical service life of frequent
operation industries is increased by 60%



Silverpoint automatic riveting

70%-120% wide voltage suction, resistance to the grid fluctuation,
guaranteeing that the contactor can be reliably sucked in the case of
power grid fluctuation

Comprehensive dustproof design, easy to cope with dusty environment



Top dust cover



Side dust sheets

Intelligence and Functionality



**Multiple Choices, Reduced Costs,
High Cost Performance**



Aux. contact

+

=



Aux. CJX2s 01/10



The full range covers 6-95A, of which 9-38A provide 11/01/10 auxiliary selection, 40A and above are equipped with 11 auxiliaries as standard to meet all kinds of customer needs and reduce customer's procurement costs.....

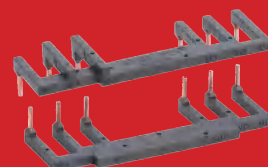
Complete accessories such as transparent dust cover, surge suppressor, reversible busbars, auxiliary contact, air delay head, and coils, everything is available.....



PC Transparent
dust cover



FS Surge
suppressor



FN reversible busbar



F4 aux. contact



X2s coil



It can be installed in combination with JRS1Dsp and JRS1 thermal overload relays.....

NAVIGATOR Defines Creation

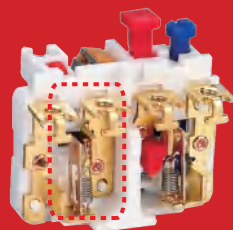


**Convenient and Effective, Breaking
Through Limits**

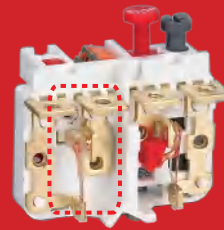
JRS1Dsp Thermal Overload Relay



- ◆ Reed type moving contact, eliminating the auxiliary non-energizing fault, reducing the contact resistance by 30%, and improving power-on stability



Spring type moving contact

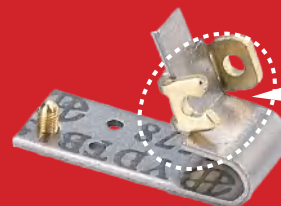


Reed type moving contact

Patent for
invention

Patent number: L201611151028.0

- ◆ Temperature compensation bimetallic structure upgraded, precision positioning, higher current setting accuracy, and reliable operation in high and low temperature environments



Patent for
invention

Patent number: 201611150994.0

- ◆ For JRS1Dsp- 93A shell frame, added 7- 10A, 9-13A, 12-18A, and 17-25A specifications; when the contactor is derated, it can also be installed in combination with thermal relays



JRS1Dsp-93

Product Overview

■ Product Introduction

The new CJX2s series of motor control and protection product is the product that uses the new generation technology platform and adopts automated production and testing equipment to fully meet the actual application needs of customers and to realize the convenient operation and national leading quality. This series includes ten series and its accessories such as CJX2s AC contactor, CJX2sF high-current contactor, CJX2H AC contactor, CJX2H -Z DC control contactor. JRS1Dsp thermal overload relay, JR2H thermal overcut relay, JZC4s contactor relay, CDS2s electromagnetic starter, CDV2s motor circuit breaker, and CDC19s switching capacitive contactor.

■ Product Range

- CJX2s AC Contactor: 06~400A, with 20 current specifications in total, including 11 auxiliary contacts in 9~38A (1 normally open and 1 normally closed)
Accessories: PC transparent dust cover, FN reversible busbar, F4 top auxiliary contact, FC6 side auxiliary contacts, FT6 air delay head, FR6 mechanical interlock, FS surge suppressor, and X2s wire;
Certificate: CCC, CE, and SEMKO
- CJX2sF High-current AC Contactor: 115~2100A, with a total of 15 current specifications
Accessories: F4 top auxiliary contact, SK4 air delay head, FR6 mechanical interlock, X6 coil, and MC6 main contact
Certificate: CCC
- CJX2H AC Contactor: 09~630A, with a total of 20 current specifications
Accessories: F4 top aux., FC4 side aux., SK4 air delay head, FR6 mechanical interlock, FS surge suppressor, FN reversible busbar, X2H coil, and PC transparent dust cover
Certificate: CCC, CE, SEMKO, and CB
- CJX2H-Z DC Control Contactor: 9 ~ 95A, with a total of 11 current specifications
Accessories: F4 top aux., FC4 side aux., SK4 air delay head, FR6 mechanical interlock, FN reversible busbar, X2H coil, and PC transparent dust cover
Certificate: CCC, CE, SEMKO, and CB
- JRS1Dsp Thermal Overload Relay: The setting current covers 0.1 ~ 630A
Accessory: Stand-alone mounting base
Certificate: CCC, CE
- JR2H Thermal Overload Relay: Setting current covers 0.1~630A
Accessory: Stand-alone mounting base
Certificate: CCC, CE, CB, and SEMKO
- JZC4s Contactor Relay: 2NO+2NC, 3NO+1NC, 4NO+QNC, 1NO+3NC, 0NO+4NC
Accessories: PC transparent dust cover, F4 top auxiliary contact, and FT6 air delay head
Certificate: CCC, CE
- CDS2s Electromagnetic Starter: 13A, 32A, 65A, 95A
Setting current range: 0.1~93A
Certificate: CCC, CE
- CDV2s Motor Circuit Breaker: Setting current: 0.1~32A
Accessories: AEV2s front-mounted auxiliary contacts, ANV2s side-mounted auxiliary contacts, AUV2s, undervoltage release, ASV2s shunt release, and CDV2s32MC waterproof housing
Certificate: CCC, CE, CB, SEMKO
- CDC19s Switching Capacitor Contactor: Current specification covers 25 ~ 170A, controllable capacitor capacity up to 90kvar
Accessories: FC6 side-mounted auxiliary contacts
Certificate: CCC, CE

■ Standard

- | | | | |
|------------------------|--------------------------------|----------------------------|------------------------|
| • GB/T 14048.1 General | • GB/T 14048.2 Circuit Breaker | • GB/T 14048.4 Contactors | • GB/T 14048.5 Relays |
| • IEC 60947-1 General | • IEC 60947-2 | • IEC 60947-4-1 Contactors | • IEC 60947-5-1 Relays |

■ Ambient Temperature

- During the normal operation, the ambient air temperature is not higher than +40°C, is not lower than -5°C, and the mean value within 24h does not exceed +35°C;
- The storage temperature is -25°C ~ +55°C, and it can reach +70°C in a short time (24h)

■ Installation Position

Vertical to the mounting surface, the inclination in each direction shall not exceed 22.5° (no more than 5° for JRS1Ds)
The installation category is Class III.

■ Humidity

- The relative humidity of the atmosphere does not exceed 50% at the maximum ambient temperature of +40°C. Higher relative humidity is allowed at lower temperatures, such as 90% at 20°C.
- For condensation that occurs occasionally due to temperature changes, protective measures shall be taken.

■ Altitude

The altitude of the normal working and installation site does not exceed 2000m

■ Pollution Degree

Level 3

■ Product Protection Grade

IP20

Model Guide

■ CJX2s AC Contactor

Product model	Current spec.	Aux. contact	Coil voltage	Coil freq.
CJX2s	06	10	M	
	06: 6A ... 95: 95A	10: 1NO+0NC 01: 0NO+1NC 11: 1NO+1NC	B: 24V ... M: 220V/230V ... Q: 380V/400V ...	No: 50Hz 7: 50/60Hz

Motor power Pe (KW AC-3,380V)	Rated current Ie (A)	Aux. contact		Order code
		Normally open NO	Normally closed NC	
2.2	6	1	-	CJX2s 06 10 *
		-	1	CJX2s 06 01 *
4	9	1	-	CJX2s 09 10 *
		-	1	CJX2s 09 01 *
		1	1	CJX2s 09 11 *
5.5	12	1	-	CJX2s 12 10 *
		-	1	CJX2s 12 01 *
		1	1	CJX2s 12 11 *
5.5	16	1	-	CJX2s 16 10 *
		-	1	CJX2s 16 01 *
		1	1	CJX2s 16 11 *
7.5	18	1	-	CJX2s 18 10 *
		-	1	CJX2s 18 01 *
		1	1	CJX2s 18 11 *
11	22	1	-	CJX2s 22 10 *
		-	1	CJX2s 22 01 *
		1	1	CJX2s 22 11 *

Motor power Pe (KW AC-3,380V)	Rated current Ie (A)	Aux. contact		Order code
		Normally open NO	Normally closed NC	
11	25	1	-	CJX2s 25 10 *
		-	1	CJX2s 25 01 *
		1	1	CJX2s 25 11 *
15	32	1	-	CJX2s 32 10 *
		-	1	CJX2s 32 01 *
		1	1	CJX2s 32 11 *
18.5	38	1	-	CJX2s 38 10 *
		-	1	CJX2s 38 01 *
		1	1	CJX2s 38 11 *
18.5	40	1	1	CJX2s 40 11 *
22	50	1	1	CJX2s 50 11 *
30	65	1	1	CJX2s 65 11 *
37	80	1	1	CJX2s 80 11 *
45	95	1	1	CJX2s 95 11 *

Notes: 3 poles are conventional poles, and are not indicated in the model.

* in the CJX2s order code can be indicated by the coil voltage code

The coil frequency 50Hz is the conventional frequency, and it is not indicated in the model.

All coil voltages at 50Hz, including 50/60Hz

Coil voltage code										
Coil voltage (V)	24	36	48	110	127	220/230	240	380/400	415	440
*	B	C	E	F	S	M	U	Q	L	X

Product model	Current spec.	Aux. contact	Coil voltage	Coil freq.
CJX2s	120	□	M	7
	120: 120A 160: 160A 185: 185A 225: 225A 265: 265A 330: 330A 400: 400A	Default: 2NO+2NC	F: AC/DC 110V S: AC/DC 127V M: AC/DC 220V Q: AC/DC 380V	Default: 50Hz 7: 50/60Hz



AC-3,380/400V		Instantaneously aux. contact		Order code
Rated current (A)	Rated power (KW)			
120	55	2	2	CJX2H-120 □□
160	75	2	2	CJX2H-160 □□
185	90	2	2	CJX2H-185 □□
225	110	2	2	CJX2H-225 □□

Coil voltage code table

Coil voltage (V)	110	127	220	380
50Hz	F	S	M	Q
50/60Hz	-	-	-	-

AC-3,380/400V		Instantaneously aux. contact		Order code
Rated current (A)	Rated power (KW)			
265	132	2	2	CJX2H-265 □□
330	160	2	2	CJX2H-330 □□
400	220	2	2	CJX2H-400 □□

Note: "□□" indicates coil voltage code.

■ CJX2s-N Reversible AC Contactor

Product model	Current spec.	Mechanical interlock	Aux. contact	Coil voltage	Accessory
CJX2s	09	N	10	M	FN
	09: 9A ... 95: 95A	N: Mechanical interlock	10: 1NO+0NC 01: 0NO+1NC 11: 1NO+1NC	B: 24V ... M: 220V/230V ... Q: 380V/400V ...	FN: With reversible busbar Default: No accessory

Motor power Pe (KW AC-4,380V)	Rated current Ie(A)	Aux. contact		Order Code
		Normally open NO	Normally closed NC	
1.5	9	1	-	CJX2s 09N 10 *
		-	1	CJX2s 09N 01 *
		1	1	CJX2s 09N 11 *
2.2	12	1	-	CJX2s 12N 10 *
		-	1	CJX2s 12N 01 *
		1	1	CJX2s 12N 11 *
2.2	16	1	-	CJX2s 16N 10 *
		-	1	CJX2s 16N 01 *
		1	1	CJX2s 16N 11 *
3.3	18	1	-	CJX2s 18N 10 *
		-	1	CJX2s 18N 01 *
		1	1	CJX2s 18N 11 *
4	22	1	-	CJX2s 22N 10 *
		-	1	CJX2s 22N 01 *
		1	1	CJX2s 22N 11 *

Motor power Pe (KW AC-4,380V)	Rated current Ie(A)	Aux. contact		Order Code
		Normally open NO	Normally closed NC	
4	25	1	-	CJX2s 25N 10 *
		-	1	CJX2s 25N 01 *
		1	1	CJX2s 25N 11 *
5.4	32	1	-	CJX2s 32N 10 *
		-	1	CJX2s 32N 01 *
		1	1	CJX2s 32N 11 *
5.5	38	1	-	CJX2s 38N 10 *
		-	1	CJX2s 38N 01 *
		1	1	CJX2s 38N 11 *
7.5	40	1	1	CJX2s 40N 11 *
11	50	1	1	CJX2s 50N 11 *
15	65	1	1	CJX2s 65N 11 *
18.5	80	1	1	CJX2s 80N 11 *
22	95	1	1	CJX2s 95N 11 *

Notes: 3 poles are conventional poles, and are not indicated in the model.

* in the CJX2s order code can be indicated by the coil voltage code

The coil frequency 50Hz is the conventional frequency, and it is not indicated in the model. If 50/60Hz common coil is required, it can be customized.

Coil voltage code table

Coil voltage (V)	24	36	110	220/230	380/400
*	B	C	F	M	Q

■ CJX2sF High-Current AC Contactor

Product model	Current spec.	Aux. contact	Coil voltage	Coil freq.
CJX2sF	115	00	M	
	115: 115A ... 2100: 2100A	00: 0NO+0NC	B: 24V ... X: 440V	Default: 50Hz 7: 50/60Hz

AC-3, 380/400V		Instantaneously aux. contact		Order code	AC-3, 380/400V		Instantaneously aux. contact		Order code
Rated current (A)	Rated power (KW)	┘	┘		Rated current (A)	Rated power (KW)	┘	┘	
115	55	-	-	CJX2sF 115 00 □□	630	335	-	-	CJX2sF 630 00 □□
150	75	-	-	CJX2sF 150 00 □□	800	450	-	-	CJX2sF 800 00 □□
185	90	-	-	CJX2sF 185 00 □□	1000	630	-	-	CJX2sF 1000 00 □□
225	110	-	-	CJX2sF 225 00 □□	1250	780	-	-	CJX2sF 1250 00 □□
265	132	-	-	CJX2sF 265 00 □□	1450	870	-	-	CJX2sF 1450 00 □□
330	160	-	-	CJX2sF 330 00 □□	1700	1000	-	-	CJX2sF 1700 00 □□
400	200	-	-	CJX2sF 400 00 □□	2100	1250	-	-	CJX2sF 2100 00 □□
500	250	-	-	CJX2sF 500 00 □□					

Note: "□□" indicates coil voltage code.

Product name	Rated current	Main contact	Coil voltage	Coil freq.
CJX2sF	115	4	M	
	115: 115A ... 800: 800A	4: 4 normally open	F: 110V ... M: 220-230V Q: 380-400V	7: 50/60Hz

Coil voltage code table							
Coil voltage (V)	36	110	127	220	380	400	440
50HZ	C	F	S	M	Q	V	X
50/60HZ	-	F7	-	M7	Q7	-	-

■ CJX2sF High-Current Reversible AC Contactor

Product name	Rated current	Reversible contactor	Coil voltage	Coil freq.
CJX2sF	115	N	M	
	115: 115A ... 800: 800A	N	B: 24V ... X: 440V	Default: 50Hz 7: 50/60Hz

AC-3,380/400V		Instantaneously aux. contact		Order code	AC-3,380/400V		Instantaneously aux. contact		Order code
Rated current (A)	Rated power (KW)	┘	┘		Rated current (A)	Rated power (KW)	┘	┘	
115	55	-	-	CJX2sF 115N □□	330	160	-	-	CJX2sF 330N □□
150	75	-	-	CJX2sF 150N □□	400	200	-	-	CJX2sF 400N □□
185	90	-	-	CJX2sF 185N □□	500	250	-	-	CJX2sF 500N □□
225	110	-	-	CJX2sF 225N □□	630	335	-	-	CJX2sF 630N □□
265	132	-	-	CJX2sF 265N □□	800	450	-	-	CJX2sF 800N □□

Note: "□□" indicate the coil voltage code

Coil voltage code table							
Coil voltage (V)	36	110	127	220	380	400	440
50HZ	C	F	S	M	Q	V	X
50/60HZ	-	F7	-	M7	Q7	-	-



Technical Parameters

■ CJX2s AC Contactor

Contactor model			CJX2s-06	CJX2s-09	CJX2s-12	CJX2s-16	CJX2s-18	CJX2s-22	CJX2s-25	CJX2s-32	CJX2s-38	CJX2s-40	CJX2s-50	CJX2s-65	CJX2s-80	CJX2s-95		
Main circuit characteristics																		
Number of poles			3 poles															
Rated insulation voltage (Ui)		V	690															
Rated operating voltage (Ue)		V	380/400, 660/690															
Conventional thermal current (Ith) AC-1 rated operating current			16	25	25	25	32	32	40	50	50	60	80	80	125	125		
Rated operating current (Ie)	AC-3,380/400V	A	6	9	12	16	18	22	25	32	38	40	50	65	80	95		
	Rated operating power (Pe)	A	3.8	6.6	8.9	8.9	12	14	18	22	22	34	39	42	49	49		
	AC-4,380/400V	A	2.6	3.5	5	5	7.7	7.7	8.5	12	14	18.5	24	28	37	44		
	AC-4,660/690V	A	1	1.5	2	2	3.8	3.8	4.4	7.5	8.9	9	12	14	17.3	21.3		
Rated operating power (Pe)	AC-3,380/400V	kw	2.2	4	5.5	7.5	7.5	11	11	15	18.5	18.5	22	30	37	45		
	AC-3,660/690V	kw	3	5.5	7.5	7.5	10	11	15	18.5	18.5	30	33	37	45	45		
	AC-4,380/400V	kw	1.1	1.5	2.2	2.2	3.3	3.3	4	5.4	5.5	7.5	11	15	18.5	22		
	AC-4,660/690V	kw	0.75	1.1	1.5	1.5	3	3	3.7	5.5	6	7.5	10	11	15	18.5		
Mechanical life		10,000 times	1200				1000				900				650			
Electrical life	AC-3	10,000 times	110						90						65			
	AC-4	10,000 times	22						22						11			
Operation frequency	AC-3	Times/h	1200						600									
	AC-4	Times/h	300						300									
Main circuit terminal wiring capacity																		
Soft wire without terminal block	1 wire	mm ²	1~4	1~4	1~4	1~4	1~4	1~4	1.5~10	1.5~10	1.5~10	2.5~25	2.5~25	2.5~25	4~50	4~50		
	2 wires	mm ²	1~4	1~4	1~4	1~4	1~4	1~4	1.5~6	1.5~6	1.5~6	2.5~16	2.5~16	2.5~16	4~25	4~25		
Soft wire with terminal block	1 wire	mm ²	1~4	1~4	1~4	1~4	1~4	1~4	1~6	1~6	1~6	2.5~25	2.5~25	2.5~25	4~50	4~50		
	2 wires	mm ²	1~2.5	1~2.5	1~2.5	1~2.5	1~2.5	1~2.5	1~4	1~4	1~4	2.5~10	2.5~10	2.5~10	4~16	4~16		
Hard wire without terminal block	1 wire	mm ²	1~4	1~4	1~4	1~4	1~4	1~4	1.5~6	1.5~10	1.5~10	2.5~25	2.5~25	2.5~25	4~50	4~50		
	2 wires	mm ²	1~4	1~4	1~4	1~4	1~4	1~4	1.5~6	1.5~6	1.5~6	2.5~10	2.5~10	2.5~10	4~25	4~25		
Tightening torque		N·m	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	5	5	5	9	9		
Coil																		
Rated control circuit voltage (Us)	50Hz	V	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440															
	50/60Hz	V	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440															
Allowable control circuit voltage (Us)	Run	V	Installation tilt angle of ±22.5°: 85%~110%Us; Installation tilt angle of ±5°: 70%~120%															
	Release	V	Installation tilt angle of ±22.5°: 20%~75%Us; Installation tilt angle of ±5°: 20%~65%															
Coil power (50Hz)	Suck	VA	50	60				70				200				240		
	Hold	VA	9	9.5				11.4				36.6				36.6		
	Power	W	1~3	1~3				1~3				6~10				6~10		
Aux. contact																		
Contact spec.		A	10, 01				10, 01, 11				11							
Conventional thermal current (Ith)		A	10															
Rated operating voltage (Ue)	AC	V	380															
	DC	V	220															
Rated control capacity	AC-15	VA	360															
	DC-13	W	33															
Certificate			CCC, CE, SEMKO															

Note: It is not recommended that the main contact of the contactor is used in the conditions that the AC load capacity is less than 72VA or the DC load power is less than 72W (such as, direct control of PLC output). If the product must be used in the above conditions, the aux. contact, F4 aux. contact set, JZC4s contactor type relay, and CDZ9 miniature electromagnetic relay equipping with the product can be selected to get better effects.

Contactor model		CJX2s-120	CJX2s-160	CJX2s-185	CJX2s-225	CJX2s-265	CJX2s-330	CJX2s-400
Main circuit characteristics								
Number of poles		3P						
Rated insulation voltage (Ui)		690V						
Rated operating voltage (Ue)		AC220/230V; 380/400V; 660/690V						
Conventional heating current, AC-1 rated operating current		200	200	275	275	315	380	
Rated operating current (Ie)	AC-3; 220/230V(A)	120	160	185	225	265	330	400
	AC-3; 380/400V(A)	120	160	185	225	265	330	
	AC-3; 660/690V(A)	86	107	107	118	170	225	303
Rated operating power (Pe)	AC-3; 220/230V(kW)	37	45	55	63	75	90	
	AC-3; 380/400V(kW)	55	75	90	110	132	160	220
	AC-3; 660/690V(kW)	80	100	110	110	165	220	
Mechanical life (10,000 times)		1000	1000	1000	1000	600	600	600
Electrical life (10,000 times)	AC-3	120	120	110	110	90	90	
Operation frequency (Times/h)	AC-3	1200	1200	600	600	600	600	600
Main circuit terminal wiring capacity								
Soft wire without terminal block	1 wire (mm ²)	-	-	-	-	-	-	-
	2 wires (mm ²)	-	-	-	-	-	-	
Soft wire without terminal block With terminal block	1 wire (mm ²)	10~150	10~150	10~150	10~150	10~150	10~150	10~150
	2 wires (mm ²)	10~75	10~75	10~75	10~75	10~75	10~75	
Hard wire Without terminal block	1 wire (mm ²)	10~150	10~150	10~150	10~150	10~150	50~240	50~240
	2 wires (mm ²)	10~75	10~75	10~75	10~75	10~75	50~240	
Tightening torque of main circuit N·m		12	12	12	12	14	14	14
Coil								
Rated control circuit voltage (Us)	50/60Hz	AC/DC: 110V, 127V, 220V, 380V						
Available control circuit voltage	Run	Pull-in voltage 85%~110%, installation tilt angle of ±5°						
	Release	AC/DC: 20%~60%Us						
Coil power consumption	Suck(VA)	500	500	500	600	600	600	
	Hold (VA)	78	78	78	78	25	25	25
	Power (W)	30~78	30~78	30~78	30~78	3~10	3~10	
	Power (W)AC/DC	4.5~18.5	4.5~18.5	4.5~18.5	4.5~18.5	3~6	3~6	3~6
Aux. contact								
Contact spec.		22	22	22	22	22	22	22
Conventional thermal current (Ith)		10A						
Rated operating voltage (Ue)	AC	380V						
	DC	220V						
Rated control capacity	AC-15	360VA						
	DC-13	33W						
	FC-4	CCC						
Certificate		CCC/CE/CB/SEMKO						



■ CJX2sF High-current AC Contactor

Contactor model		CJX2sF-115	CJX2sF-150	CJX2sF-185	CJX2sF-225	CJX2sF-265	CJX2sF-330	CJX2sF-400
Main circuit characteristics								
Rated operating current	le, AC-3	115A	150A	185A	225A	265A	330A	400A
	le, AC-1	200A	200A	275A	275A	315A	380A	450A
Rated insulated power supply (Ui)		1000V						
Rated operating power supply (Ui)		690V						
Number of poles		3-pole/4-pole						
Rated operating power	220/240V	30kW	40kW	55kW	63kW	75kW	100kW	110kW
	380/400V	55kW	75kW	90kW	110kW	132kW	160kW	200kW
Type AC-3	415/440V	59kW	80kW	100kW	110kW	140kW	180kW	220kW
	660/690V	80kW	100kW	110kW	129kW	160kW	220kW	280kW
AC-3	Electrical life (10,000 times)	130	130	110	110	90	90	90
	Operating frequency (times/H)	600	600	600	600	600	600	300
Mechanical life (10,000 times)		1100	1100	650	650	650	650	650
Coil								
Rated control Circuit voltage (Us)	50Hz	36V, 110V, 127V, 220V, 380V, 400V, 440V						
	50/60Hz	110V, 220V, 380V						
Allow control Circuit voltage (Us)	Run	85%~110%Us						
	Release	20%~75%Us						
Coil power	Suck VA	550		800		1200		1200
	Hoid VA	45		55		13		20
	Power W	16		24		12		14
Terminal wiring function								
Hard wire	1 Pc (conductor section mm ²)	95	120	150	185	240	240	-
Without terminal block	1 Pc (conductor section mm ²)	-	-	-	-	-	-	150
Copper bar	2 Pcs (size mm)	20*3	25*3	25*3	32*4	32*4	30*5	30*5
Auxiliary contact								
Conventional heating current (Ith)	A	10						
Rated operating voltage (Ue)	AC V	380						
	DC V	220						
Rated operating capacity	AC-15 VA	360						
	DC-13 W	33						

Note: 1. The rated operating power, electrical life, operating frequency, mechanical life and other parameters are under the AC-1 use category;
The specification of 1000 ~ 2100 A can only be applied under the AC-1 use category;

CJX2sF-500	CJX2sF-630	CJX2sF-800	CJX2sF-1000	CJX2sF-1250	CJX2sF-1450	CJX2sF-1700	CJX2sF-2100
500A	630A	800A	1000A	1250A	1450A	1700A	2100A
630A	630A	800A	1000A	1250A	1450A	1700A	2100A
1000V							
690V							
3-pole/4-pole				3-pole			
147kW	200kW	230kW	360kW	450kW	500kW	585kW	730kW
250kW	335kW	450kW	630kW	780kW	870kW	1000kW	1250kW
280kW	375kW	450kW	780kW	870kW	980kW	1150kW	1400kW
335kW	450kW	475kW	1030kW	1270kW	1430kW	1650kW	2050kW
90	65	20	60	60	40	40	40
300	300	300	600	600	600	600	600
650	650	100	120	120	80	80	80
36V, 110V, 127V, 220V, 380V, 400V, 440V							
110V, 220V, 380V							
85%~110%Us							
20%~75%Us							
1250	1650	830	2000~2300				
24	22	47	24~44				
18	20	20~25	20~25	20~25	29~37	29~37	29~37
-	-	-	-	-	-	-	-
240	-	-	-	-	-	-	-
40*5	60*5	100*5	60*5	80*5	100*5	100*5	100*5
10							
380							
220							
360							
33							



■ CJX2s-N Reversible AC Contactor

Contactor model	Rated insulation voltage	Rated operating voltage	Conventional heating current	Intermittent periodic duty AC-4	
	Ui(V)	Ue(V)	Ith(A)	Ie(A)	Pe(kw)
CJX2s-09N	690	380	25	3.5	1.5
		660		1.5	1.1
CJX2s-12N	690	380	25	5	2.2
		660		2	1.5
CJX2s-16N	690	380	25	5	2.2
		660		2	1.5
CJX2s-18N	690	380	32	7.7	3.3
		660		3.8	3
CJX2s-22N	690	380	32	7.7	3.3
		660		3.8	3
CJX2s-25N	690	380	40	8.5	4
		660		4.4	3.7
CJX2s-32N	690	380	50	12	5.4
		660		7.5	5.5

Contactor model	Rated insulation voltage	Rated operating voltage	Conventional heating current	Intermittent periodic duty AC-4	
	Ui(V)	Ue(V)	Ith(A)	Ie(A)	Pe(kw)
CJX2s-38N	690	380	50	14	5.5
		660		8.9	6
CJX2s-40N	690	380	60	18.5	7.5
		660		9	7.5
CJX2s-50N	690	380	80	24	11
		660		12	10
CJX2s-65N	690	380	80	28	15
		660		14	11
CJX2s-80N	690	380	125	37	18.5
		660		17.3	15
CJX2s-95N	690	380	125	44	22
		660		21.3	18.5

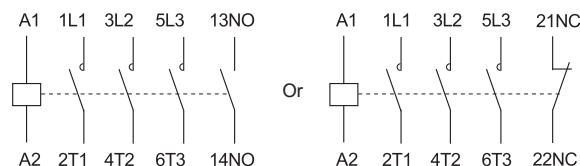
■ CJX2sF-N High-Current AC Contactor

Reversible contactor (Horizontal installation)	Rated capacity (kW) AC-3		Rated current (A) AC-3		Conventional heating current (A) Rated current AC-1
	380V	660V	380V	660V	
CJX2sF-115N	55	80	115	86	200
CJX2sF-150N	75	100	150	108	200
CJX2sF-185N	90	110	185	118	275
CJX2sF-225N	110	129	225	137	275
CJX2sF-265N	132	160	265	170	315

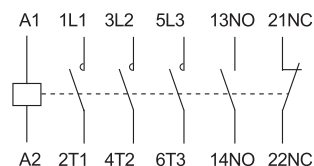
Reversible contactor (Horizontal installation)	Rated capacity (kW) AC-3		Rated current (A) AC-3		Conventional heating current (A) Rated current AC-1
	380V	660V	380V	660V	
CJX2sF-330N	160	220	330	235	380
CJX2sF-400N	200	280	400	303	450
CJX2sF-500N	250	335	500	353	630
CJX2sF-630N	335	450	630	462	800
CJX2sF-800N	450	475	800	486	800

■ Wiring Diagram

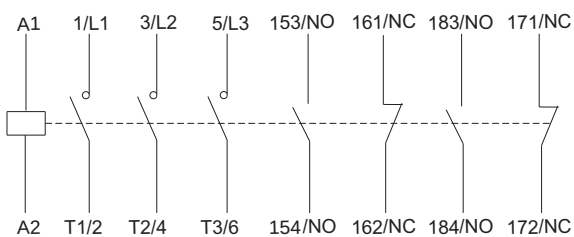
CJX2s-06~38



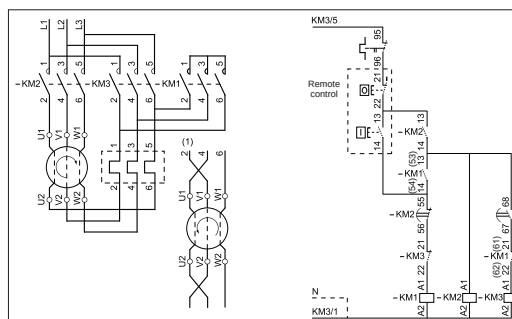
CJX2s-40~95



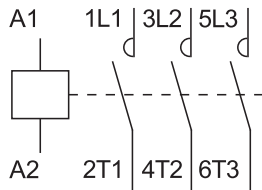
CJX2s-120~400



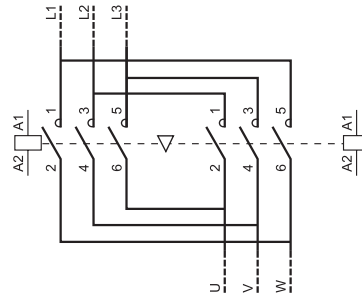
Star-Delta Starter Wiring Diagram



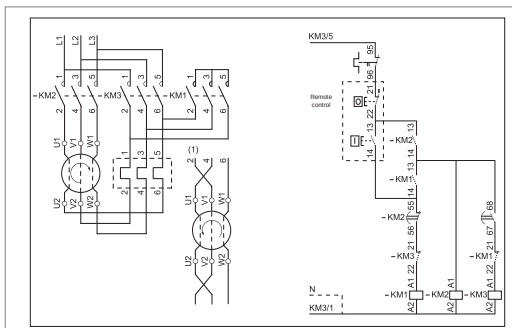
CJX2sF-115~2100A



CJX2sF-115N~800N (horizontal installation, mechanical interlock)

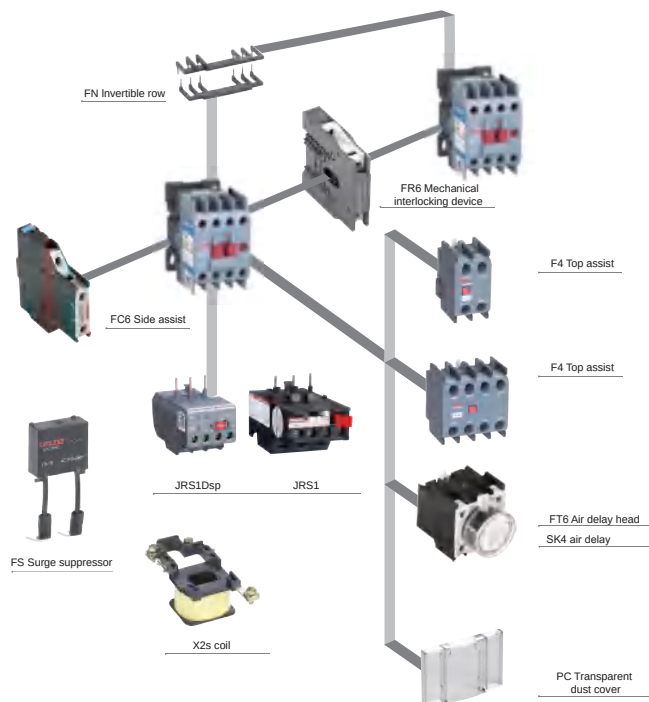


Star-Delta Starter Wiring Diagram

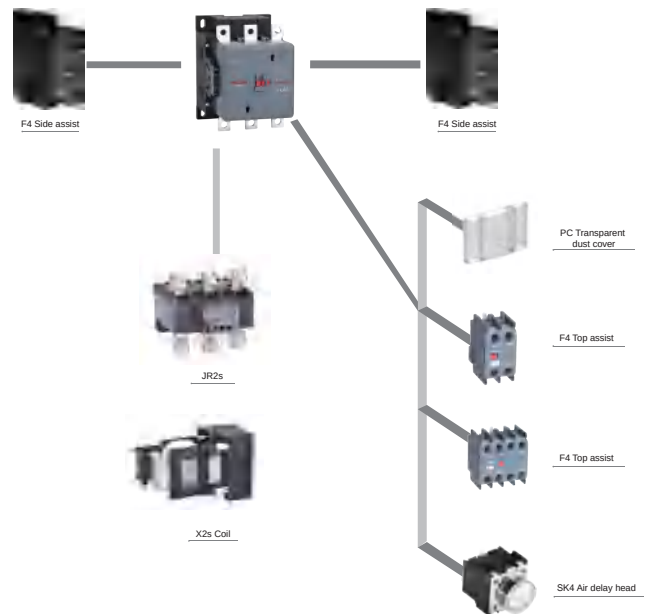


■ Schematic Diagram Of Accessory Installation

CJX2s-6~95A



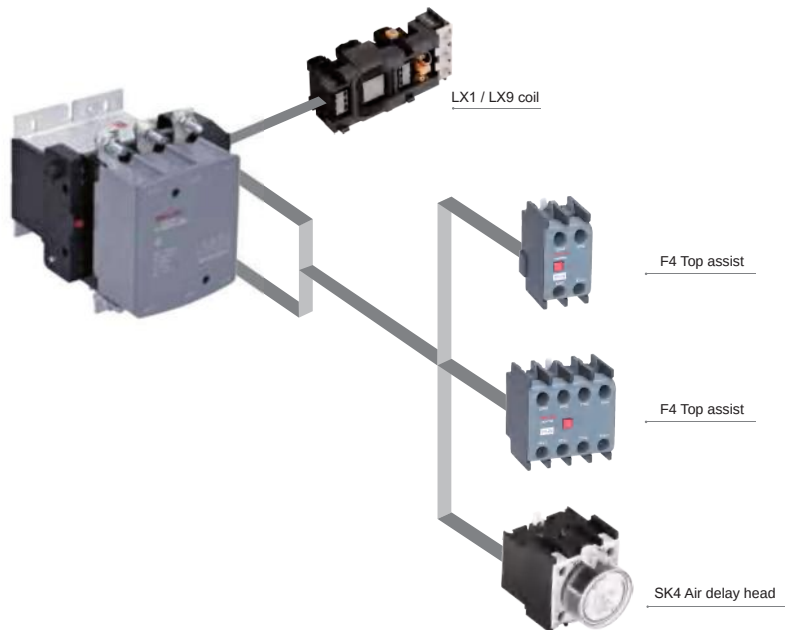
CJX2s-120~400A



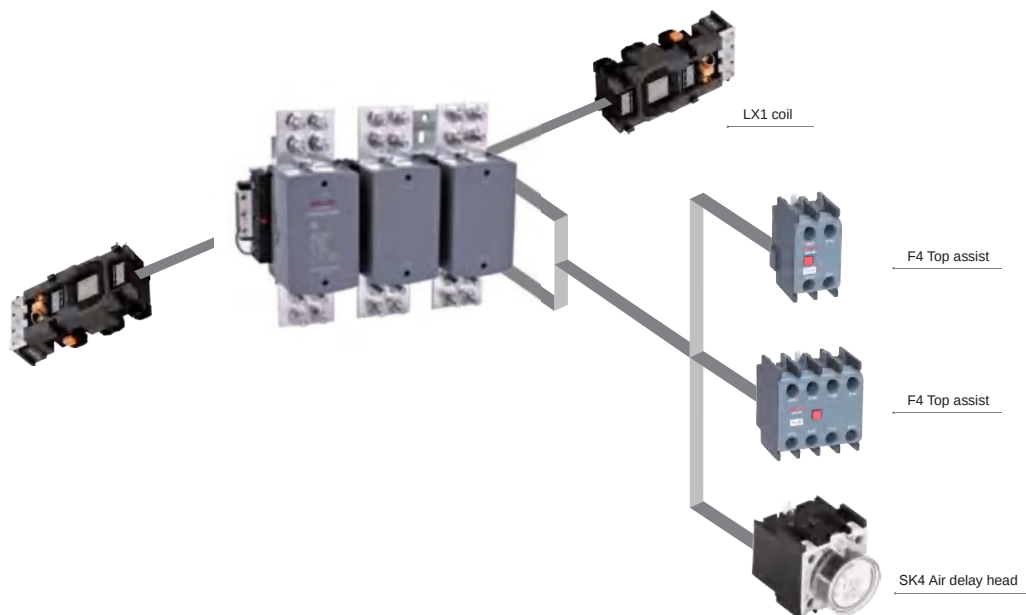
Note: CJX2s-06 cannot be equipped with side auxiliary contact and mechanical interlocking device.



CJX2sF-115-1250A



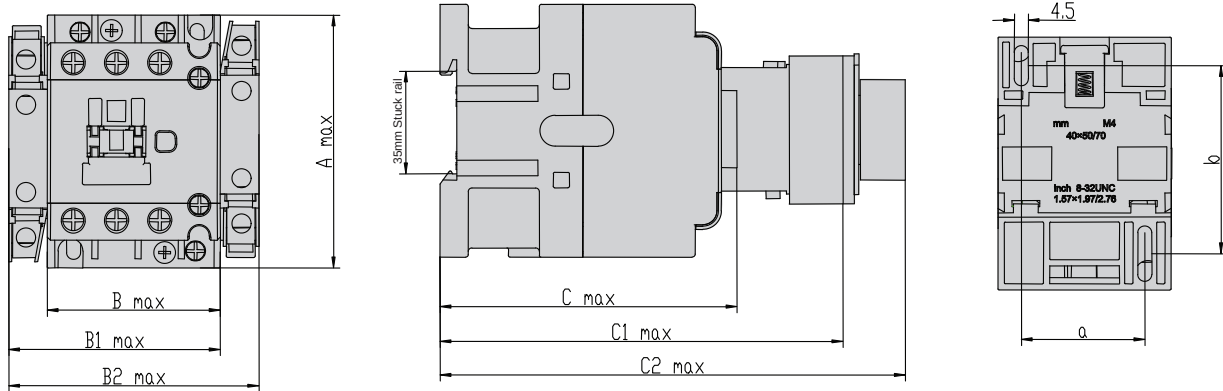
CJX2sF-1450~2100A



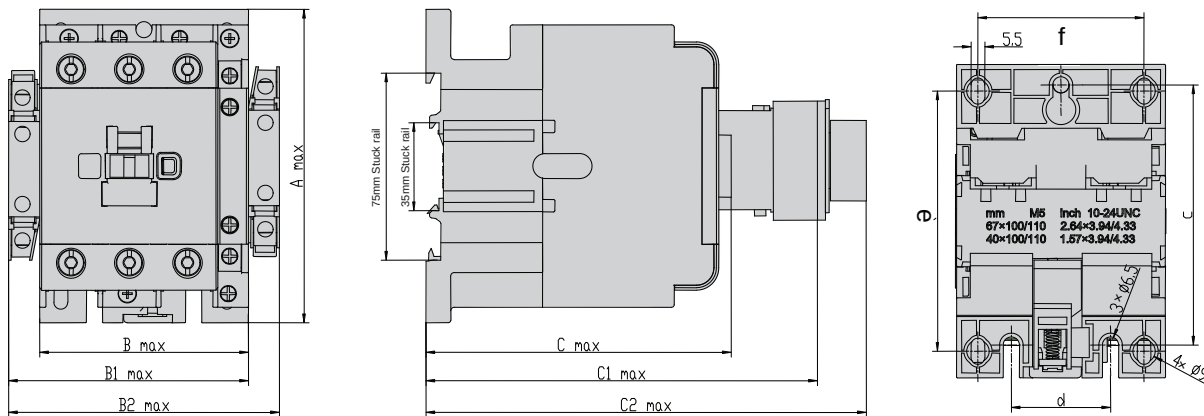
Outline and Installation Dimensions

■ CJX2s AC Contactor

CJX2s 06~38A



CJX2s 40~95A



Outline Dimensions of CJX2s 06~95A AC Contactor

Model	Auxiliary contac	Amax	Bmax	B1max	B2max	Cmax	C1max	C2max
CJX2s(K)-06	01, 10	74.5	45.5	-	-	75	107	132
CJX2s(K)-09, 12, 16, 18, 22	01, 10	74.5	45.5	58	71	82.5	114.5	139.5
	11	74.5	45.5	58	71	85.5	117.5	142.5
CJX2s(K)-25, 32, 38	01, 10, 11	83	56.5	69	82	97	129	154
CJX2s(K)-40, 50, 65	11	127.5	74.5	88	101	117	148.5	173.5
CJX2s(K)-80, 95	11	127.5	85.5	99	112	125.5	157	182

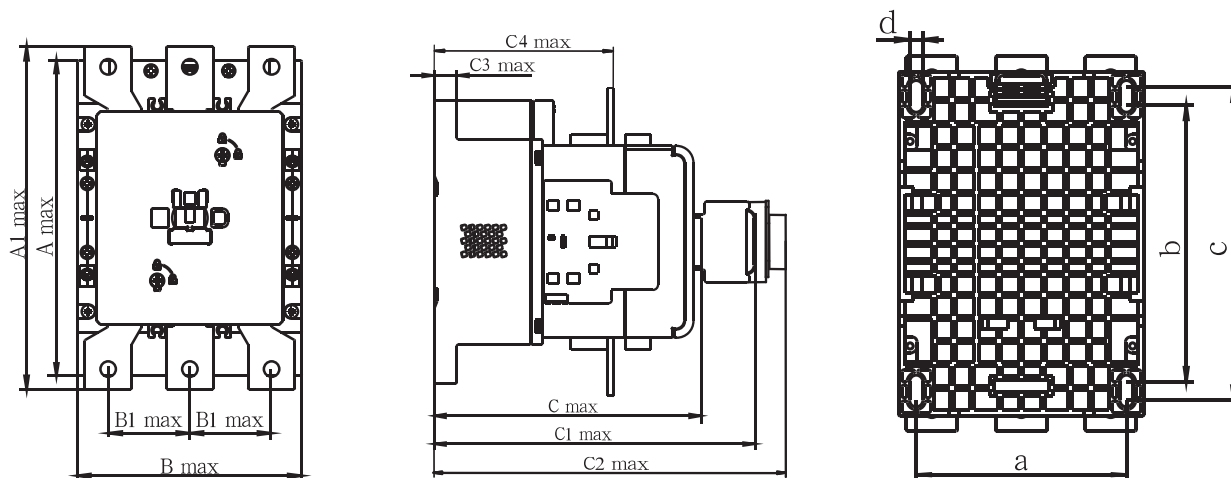
Note: B1max—Contactor + FC6 B2max—Contactor +2 FC6 C1max—Contactor + FD6 C2max—Contactor + FT6

Outline Dimensions of CJX2s 06~95A AC Contactor

Model	Auxiliary contac	a	b	c	d	e	f
CJX2s(K)-06	01, 10	35	50/60	-	-	-	-
CJX2s(K)-09, 12, 16, 18, 22	01, 10, 11	35	50/60	-	-	-	-
CJX2s(K)-25, 32, 38	01, 10, 11	40	50/60	-	-	-	-
CJX2s(K)-40, 50, 65	11	-	-	105	40	100/110	59
CJX2s(K)-80, 95	11	-	-	105	40	100/110	67



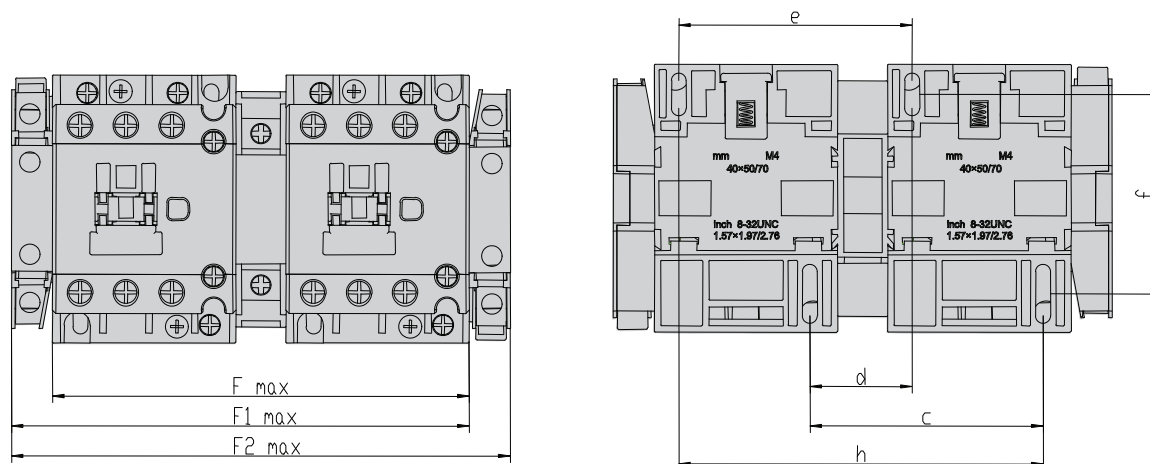
CJX2s-120~400A



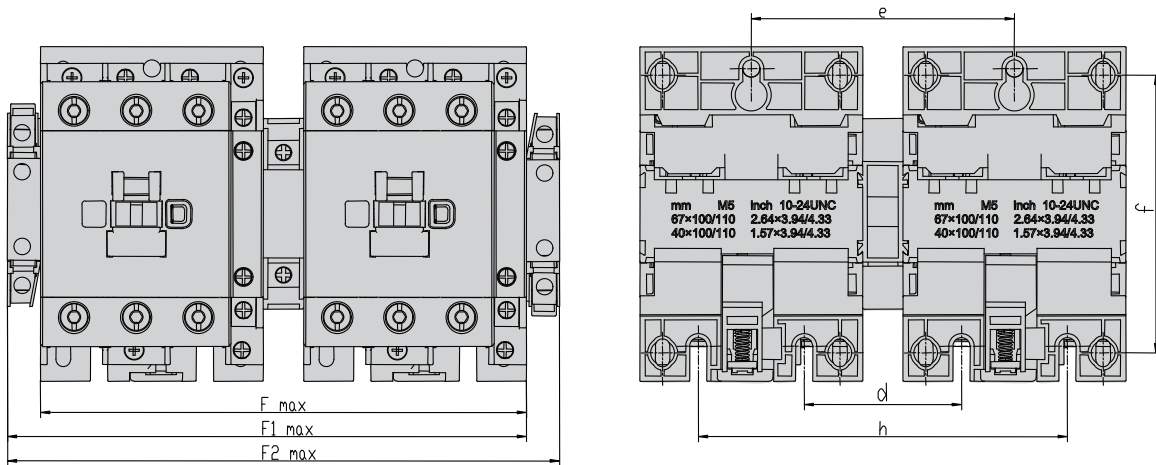
Model	Amax	A1max	Bmax	B1max	Cmax	C1max	C2max	C3max	C4max	a	b	c	d
CJX2H-120	168.5	182.5	120	40.5	161	193	198	13.5	109	103	135	153	6.5
CJX2H-160	168.5	182.5	120	40.5	161	193	198	13.5	109	103	135	153	6.5
CJX2H-185	168.5	182.5	120	40.5	161	193	198	13.5	109	103	135	153	6.5
CJX2H-225	168.5	182.5	120	40.5	161	193	198	13.5	109	103	135	153	6.5
CJX2H-265	210	200	154	52.5	208	240	245	17	142	128	173	188	9
CJX2H-330	210	200	154	52.5	208	240	245	17	142	128	173	188	9
CJX2H-400	210	200	154	52.5	208	240	245	17	142	128	173	188	9

■ CJX2s-N Reversible AC Contactor

CJX2s-N 09~38A



CJX2s-N 40~95A

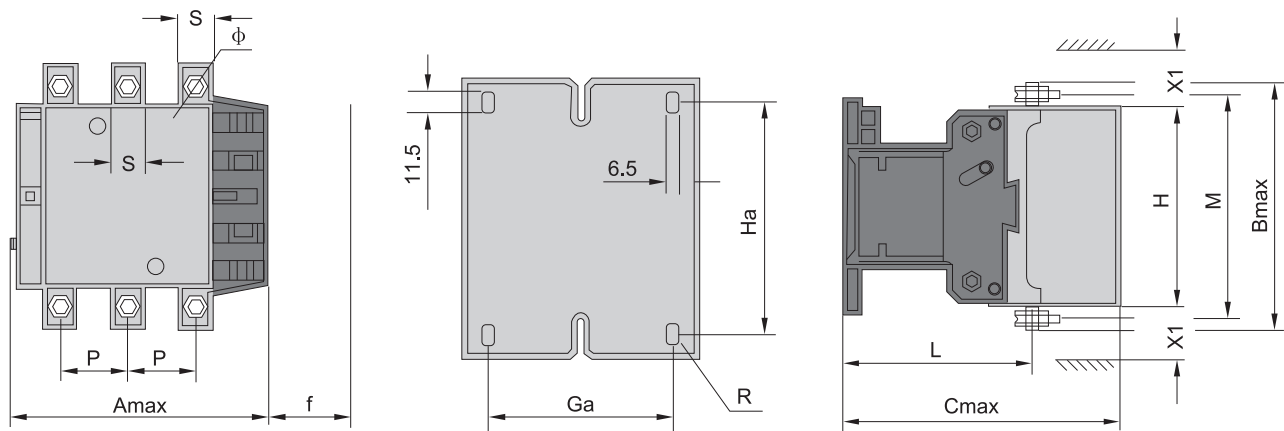


Outline Dimensions of CJX2s-N 09~95A Reversible AC Contactor

Model	Fmax	F1max	F2max	c	d	e	f	h
CJX2s-09N, 12N, 18N	107	120	131	60	25	60	50/60	95
CJX2s-25N, 32N, 38N	129	142	153	71	31.5	71	50/60	111.5
CJX2s-40N, 50N, 65N	163	180	193	-	50	90	100/110	130
CJX2s-80N, 95N	186	202	215	-	60	100	100/110	140

■ CJX2sF High-current AC Contactor

CJX2sF-115~330



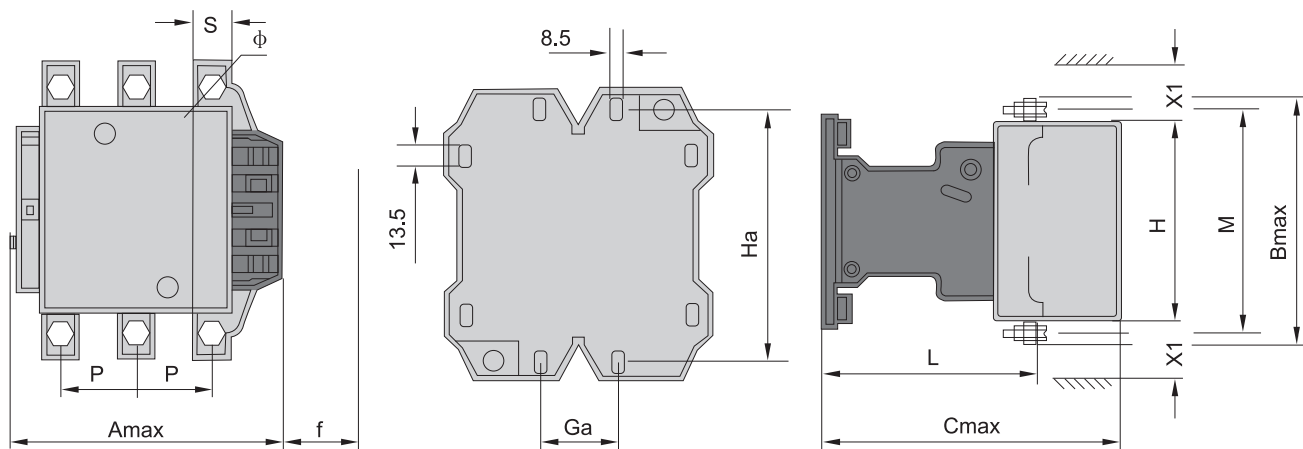
Model	Amax	Bmax	Cmax	P	S	ψ	f	M	H	L	X1	X1	Ga	Ha
											(200-550V)	(600-1000V)		
CJX2sF-115	167	163	172	37	20	M6	131	147	124	107	10	15	80	110~120
CJX2sF-150	167	171	172	40	20	M8	131	150	124	107	10	15	80	110~120
CJX2sF-185	171	174	183	40	20	M8	131	154	127	113.5	10	15	80	110~120
CJX2sF-225	171	197	183	48	25	M10	131	172	127	113.5	10	15	80	110~120
CJX2sF-265	203	203	215	48	25	M10	147	178	147	141	10	15	96	110~120
CJX2sF-330	213	206	220	48	25	M10	147	181	158	145	10	15	96	110~120

Note: 1. f is the minimum distance required to take out the coil

2. X1 represents the flashover distance determined according to the working voltage and the breaking capacity.

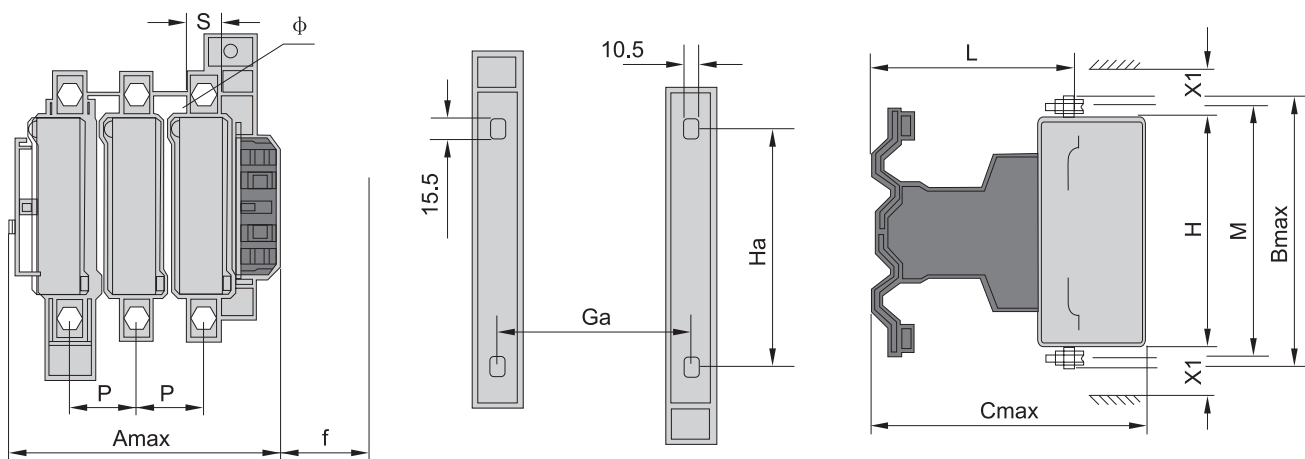


CJX2sF-400~500



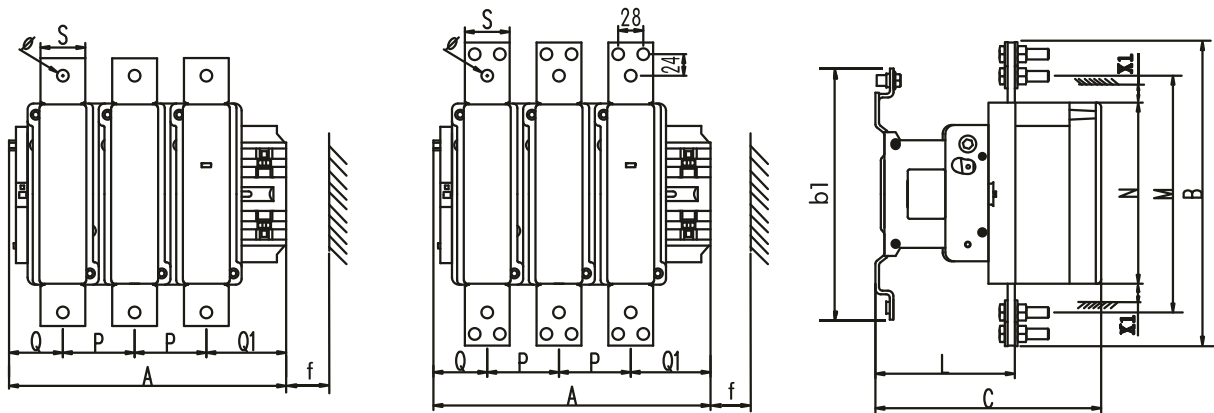
Model	Amax	Bmax	Cmax	P	S	ψ	f	M	H	L	X1	X1	Ga	Ha
											(200-550V)	(600-1000V)		
CJX2sF-400	213	206	220	48	25	M10	146	181	158	145	15	20	80	170~180
CJX2sF-500	233	238	233	55	30	M10	150	208	172	146	15	20	80	170~180

CJX2sF-630~800

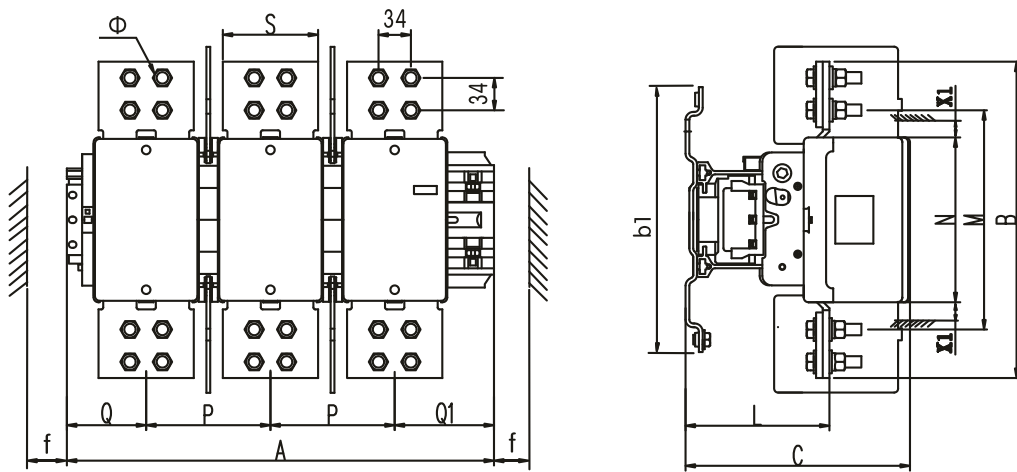


Model	Amax	Bmax	Cmax	P	S	ψ	f	M	H	L	X1	X1	Ga	Ha
											(200-550V)	(600-1000V)		
CJX2sF-630	309	304	256	80	40	M12	181	264	202	155	20	30	180	180~190
CJX2sF-800	309	304	256	80	40	M12	181	264	202	155	20	30	180	180~190

CJX2sF-1000~2100



CJX2sF-1000, 1250 Outline



CJX2sF-1450, 1700, 2100 Outline

Model	CJX2sF-1000	CJX2sF-1250	CJX2sF-1450	CJX2sF-1700	CJX2sF-2100
A	309	309	448.5	448.5	448.5
P	80	80	130	130	130
Q	60	60	85	85	85
Q1	89	89	104	104	104
S	40	50	90	90	90
Φ	M12	M12	M12	M12	M12
f	201	201	169	169	169
B	304	338	332	332	332
b1	280	280	280	280	280
M	264	264	230	230	230
N	202	202	172	172	172
C	255	255	238	238	238
I	155	155	145	145	145
X1					
≤500V		20		90	
≥600V		30		100	

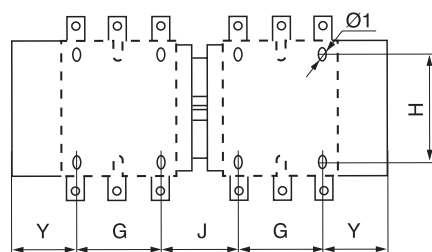
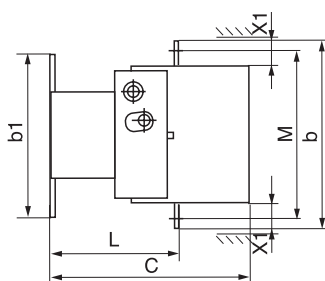
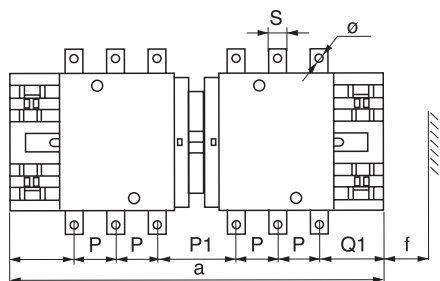
Note: (1) f represents the minimum distance required to take out each coil.

(2) X1 is the flashover distance determined according to the operating voltage and breaking capacity.

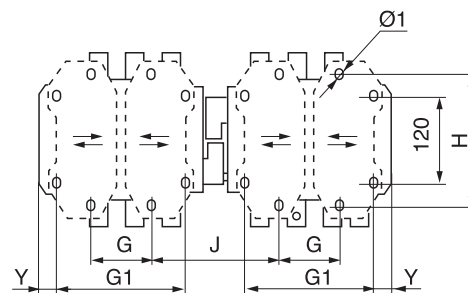
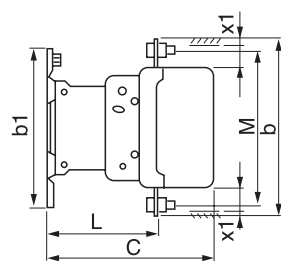
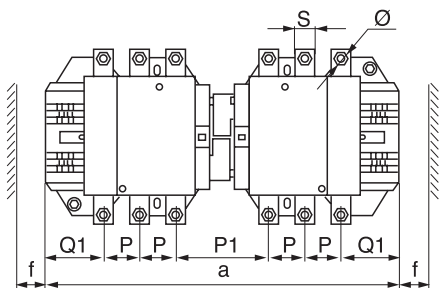


■ CJX2sF-N High-current Reversible AC Contactor

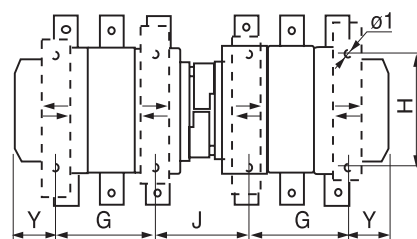
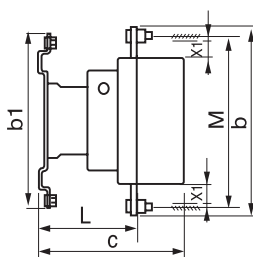
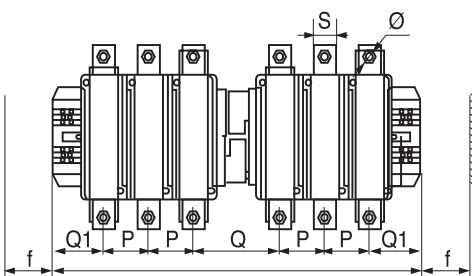
CJX2sF-115 N ~ 330 N (horizontal installation)



CJX2sF-400N~500N (horizontal installation)



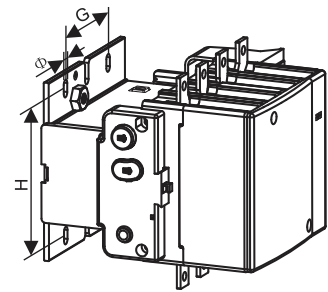
CJX2sF-630N/800N (horizontal installation)



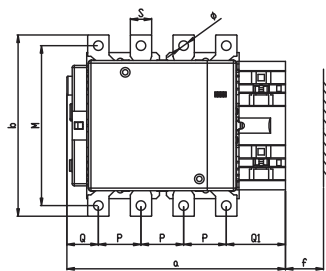
Contactor type	a	p	p1	Q1	S	ϕ	f	b	b1	M	c	L	G	J	H	$\phi 1$	Y
CJX2sF-115N	346	37	78	60	15	M6	109	162	137	147	171	107	80	72	120/106	6.5	57
CJX2sF-150N	346	40	72	57.5	20	M8	109	170	137	150	171	107	80	72	120/106	6.5	57
CJX2sF-185N	357	40	78	59.5	20	M8	117	174	137	154	181	113.5	80	78	120/106	6.5	59.5
CJX2sF-225N	357	48	62	51.5	25	M10	117	197	137	175	181	113.5	80	78	120/106	6.5	59.5
CJX2sF-265N	424	48	99	66.5	25	M10	143	203	145	178	213	141	96	109	120/106	6.5	61.5
CJX2sF-330N	445	48	105	74	25	M10	143	206	145	181	219	145	96	122	120/106	6.5	65.5
CJX2sF-400N	445	48	105	74	25	M10	151	206	209	181	219	145	80	156	170/180	8.5	19.5
CJX2sF-500N	485	55	111	77	30	M10	169	238	209	208	232	146	80	156	170/180	8.5	39.5
CJX2sF-630N	636	80	138	89	40	M12	201	304	280	264	255	155	180	139	180/190	10.5	68.5
CJX2sF-800N	636	80	138	89	40	M12	210	304	280	264	255	155	180	139	180/190	10.5	68.5

Installation Dimensions of CJX2sF-1154 ~ 8004 (mm)

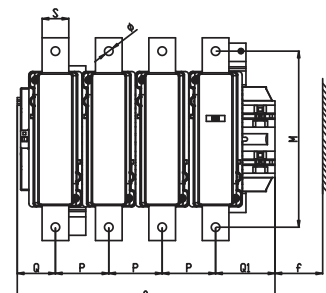
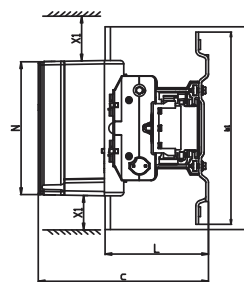
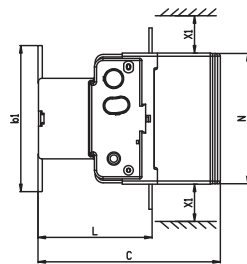
CJX2sF	1154, 1504 1854, 2254	2654 3304	4004	5004	6304 8004
G	80	96	80	140	240
H	110~120		170~180		180~190
Φ	M6		M8		M10
$\equiv$	M8		M10		M12



Outline Dimensions of CJX2sF-1154 ~ 8004



CJX2sF-1154~8004



CJX2sF-6304~8004



Product Selection

■JRS1Dsp Thermal Overload Relay

Product model	Shell frame current	Setting current	Installation method
JRS1Dsp	25	P16	
	25: 25A 38: 38A 93: 93A 185: 185A 630: 630A	P16: 0.1~0.16A ... 93: 80~93A 630: 265~630A	Default: Assembly installation

Note: P stands for decimal point

Shell Current	Rated current Ie (A)	Specification of matching fuse	Specification of matching contactor	Order code
		Normally open NO	Normally closed NC	
25	0.1~0.16	4	-09~38	JRS1Dsp 25 P16
	0.16~0.25	4	-09~38	JRS1Dsp 25 P25
	0.25~0.4	4	-09~38	JRS1Dsp 25 P4
	0.4~0.63	4	-09~38	JRS1Dsp 25 P63
	0.63~1	4	-09~38	JRS1Dsp 25 1
	1~1.6	4	-09~38	JRS1Dsp 25 1P6
	1.6~2.5	6	-09~38	JRS1Dsp 25 2P5
	2.5~4	10	-09~38	JRS1Dsp 25 4
	4~6	16	-09~38	JRS1Dsp 25 6
	5.5~8	20	-09~38	JRS1Dsp 25 8
	7~10	20	-09~38	JRS1Dsp 25 10
	9~13	25	-12~38	JRS1Dsp 25 13
	12~18	35	-18~38	JRS1Dsp 25 18
	17~25	50	-25~38	JRS1Dsp 25 25
38	23~32	63	-25~38	JRS1Dsp 38 32
	30~40	80	-32~38	JRS1Dsp 38 40
	7~10	20	-40~95	JRS1Dsp 93 10
93	9~13	25	-40~95	JRS1Dsp 93 13
	12~18	35	-40~95	JRS1Dsp 93 18
	17~25	50	-40~95	JRS1Dsp 93 25
	23~32	63	-40~95	JRS1Dsp 93 32
	30~40	80	-40~95	JRS1Dsp 93 40
	37~50	100	-50~95	JRS1Dsp 93 50
	48~65	100	-50~95	JRS1Dsp 93 65
	55~70	125	-65~95	JRS1Dsp 93 70
	63~80	125	-80~95	JRS1Dsp 93 80
	80~93	160	-95	JRS1Dsp 93 93

Shell Current	Rated current Ie (A)	Specification of matching fuse	Specification of matching contactor	Order code
		Normally open NO	Normally closed NC	
185	48-65	100	120~225	JRS1Dsp 185 65
	55-70	100		JRS1Dsp 185 70
	63-80	100		JRS1Dsp 185 80
	75-95	125		JRS1Dsp 185 95
	90-115	200		JRS1Dsp 185 115
	105-135	200		JRS1Dsp 185 135
	120-150	200		JRS1Dsp 185 150
	130-160	250		JRS1Dsp 185 160
	150-185	250		JRS1Dsp 185 185
	145-200	400	265~630	JRS1Dsp 630 200F
630	180-250	400		JRS1Dsp 630 250F
	230-320	500		JRS1Dsp 630 320F
	290-400	630		JRS1Dsp 630 400F
	350-480	800		JRS1Dsp 630 480F
	460-630	800		JRS1Dsp 630 630F

Technical Parameters

Model	JRS1Dsp-25	JRS1Dsp-38	JRS1Dsp-93	JRS1Dsp-185	JRS1Dsp-630
Main technical parameters					
Rated insulation voltage (Ui)	690V	690V	690V	690V	690V
Overload protection	Yes	Yes	Yes	Yes	Yes
Phase failure protection	Yes	Yes	Yes	Yes	Yes
Manual reset	Yes	Yes	Yes	Yes	Yes
Automatic reset	Yes	Yes	Yes	Yes	Yes
Stop button	Yes	Yes	Yes	Yes	Yes
Test button	Yes	Yes	Yes	Yes	Yes
Trip indication	Yes	Yes	Yes	Yes	Yes
Temperature compensation	-5~+40°C	-5~+40°C	-5~+40°C	-10~+55°C	-10~+55°C
Trip grade	10A	10A	10	10	10A
Installation method	Freestanding/ combination	Freestanding/ combination	Freestanding/ combination	Freestanding/ combination	Freestanding
Auxiliary circuit					
Contact specifications	10/01	10/01	10/01	10/01	10/01
AC-15 220V rated operating current (Ie)	1.64A	1.64A	1.64A	1.64A	1.57A
AC-15 220V conventional heating current (Ith)	5A	5A	5A	6A	6A
AC-15 380V rated operating current (Ie)	0.95A	0.95A	0.95A	0.95A	0.9A
AC-15 380V conventional heating current (Ith)	5A	5A	5A	6A	6A
DC-13 220V rated operating current (Ie)	0.15A	0.15A	0.15A	0.23A	0.22A
DC-13 220V conventional heating current (Ith)	5A	5A	5A	6A	6A
DC-13 660/690V rated operating current (Ie)	-	-	-	0.55A	0.52A
DC-13 660/690V conventional heating current (Ith)	-	-	-	6A	6A
Certificate	CCC/CE/CB				

■ Accessory

Name	Order code
JRS1D-25 Mounting Base	JRS1D 25 J
JRS1D-36 Mounting Base	JRS1D 36 J
JRS1D-93 Mounting Base	JRS1D 93 J

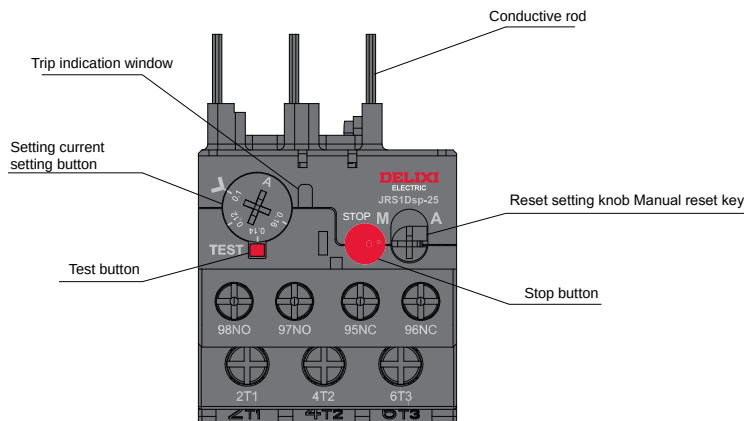


■ Action Characteristics

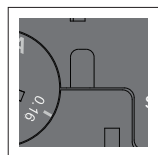
Serial number	Setting current multiple		Action time		Initial condition	Ambient temperature
			Trip grade 10A	Trip grade 10		
Operation characteristics when each phase load is balanced						
1	1.05		No action within 2 hours	No action within 2 hours	Cold state	+20°C
2	1.25		Action within 2 hours	Action within 2 hours	Hot state (after test connected to No.1)	
3	1.5		<2 minutes	<4 minutes	Hot state (after test connected to No.1)	
4	7.2		2s<Tp≤10s	4s<Tp≤10s	Cold state	+20°C
When the load of each phase is unbalanced (action characteristics of phase failure)						
	Any two phases		Third-phase			
1	1.0	0.9	No action within 2 hours	No action within 2 hours	Cold state	+20°C
2	1.15	0	Action within 2 hours	Action within 2 hours	Hot state (after test connected to No.1)	



Product Function Introduction

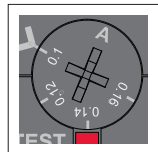


1. Tripping indication window



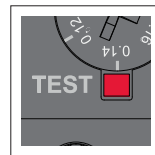
- After the thermal overload relay acts, the tripping indication window turns orange, indicating "tripping".

2. Setting current setting button



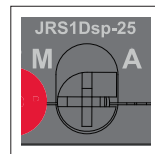
- Set the setting current value of rated motor

3. Test key



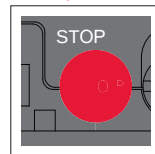
- It can simulate tripping (make NO and NC contacts act) and check the control circuit.

4. Reset setting knob and manual reset key



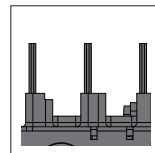
- Reset the setting knob
- Square points to "M": manual reset
- Square points to "A": automatic reset
- Manual reset key
- After the thermal overload relay acts (the tripping indication window turns orange) press the key to realize the reset

5. Stop button



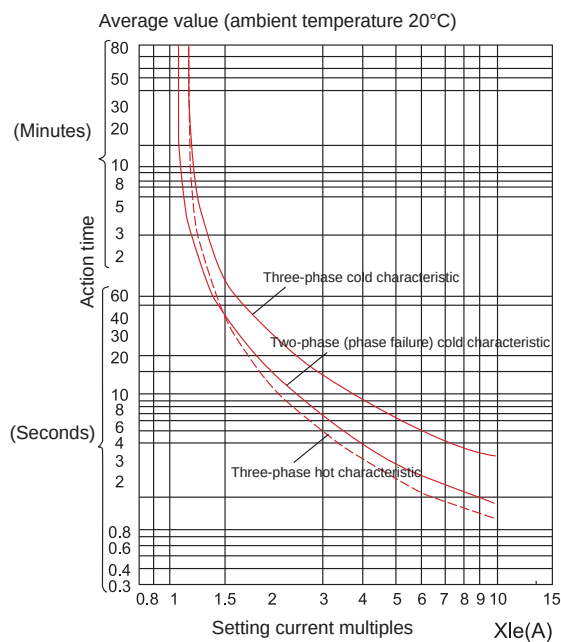
- Operate the NC contact without affecting the NO contact. After pressing, the control circuit is disconnected and the motor stops working.

6. Conductive rod

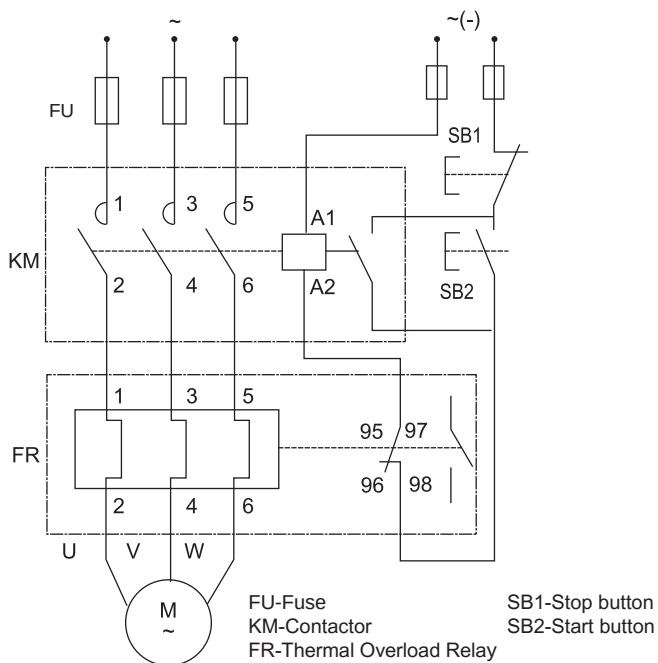


- It can be directly inserted into the main circuit of the matched contactor. The conductive rod is square, so that the contact area is increased, and the installation wiring is firmer.

Tripping Curve Diagram

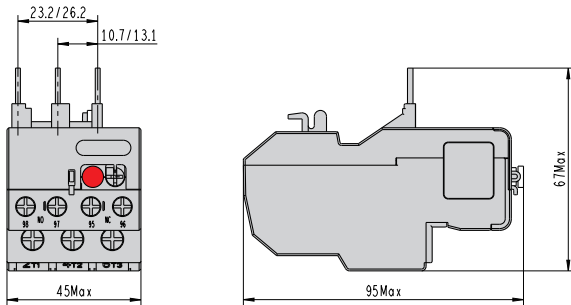


Installation Wiring Diagram

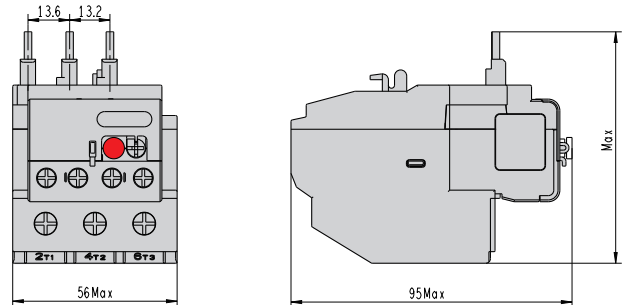


Outline and Installation Dimensions

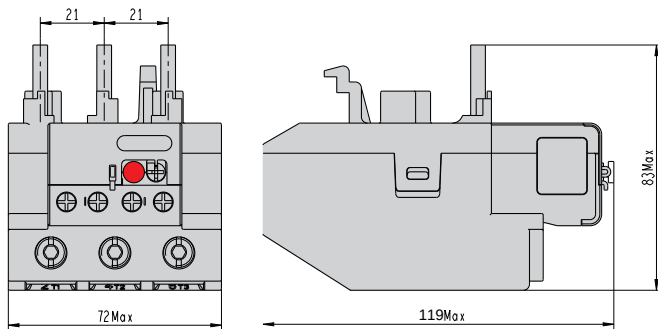
JRS1Dsp-25



JRS1Dsp-38

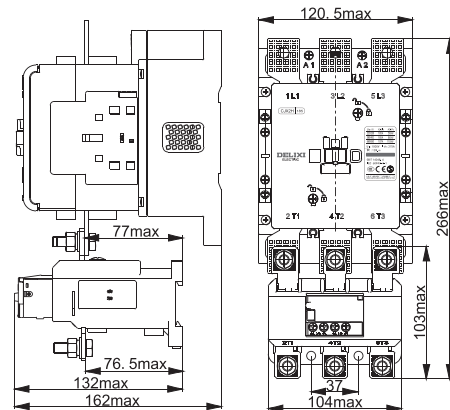


JRS1Dsp-93



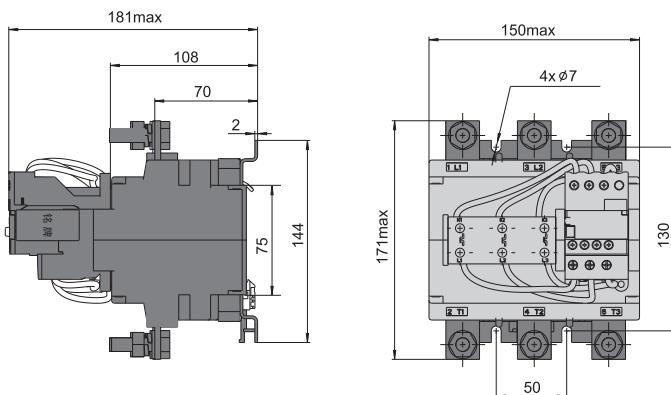
JRS1Dsp-185

Matched contactor CJX2s-120/160/185/225



JRS1Dsp-630

Independent Installation



DELIXI
ELECTRIC

NAVIGATOR
SERIES



CDM3S Moulded Case Circuit Breaker

Born to impress

Great shape, Priced right, Built to last

CDM3S series product is a new generation product fully designed on the basis of traditional technology platform, including CDM3S thermomagnetic moulded case circuit breaker, CDM3LS residual current operating circuit breaker, and CDM3G disconnector switch.

The new series products fully cover 63 to 1600 frame designed with more strong structure. There are more diversified accessories. The innovative thermomagnetic moulded case circuit breaker has communication function, improving the wiring capacity and creating products with higher price-performance and higher reliability to satisfy the application needs of various customers.



Structure designed more strong

160 and above frame is designed with reinforced ribs for more sturdy structure, and its bearing capacity is 2000N and above



CDM3LS electronic circuit board is innovatively designed with a closed structure to provide a stronger protection capacity



3.44mm

Patented arc extinguishing chamber is designed with narrow slit arc extinguishing technology, safe and reliable

NAVIGATOR

CDM3S

SERIES

Moulded Case Circuit Breaker



Innovative thermomagnetic circuit breaker with communication function, more simple and more economic



Seven types of electrical accessories, with dual-cavity installation supported



Shunt



Alarm



Aux.



Undervoltage



Aux. Alarm



Leakage alarm trip



Overload alarm non-trip

5 types of operating accessories to satisfy customer needs



Motor mechanism



Manual mechanism



Special manual mechanism for machine tool



Handle lock



Extended handle

4 types of installation accessories to realize various installations



Fixed type back-panel accessories



Plug-in accessories



Pull-out accessories



Rail mounting plate

Seven other accessories, more convenient



Zero arcing shield



Junction pole



Terminal cover



Extended terminal



Arc insulating sheet



Communication bag



Overload alarm non-trip bag

NAVIGATOR | CDM3S

SERIES Moulded Case Circuit Breaker

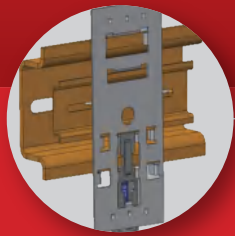


More Convenient Installation Wiring

The size of terminal hole is increased by up to 20%, improving the wiring capacity
The entire system is equipped with hex screws to provide more wiring torque and more tightness



The rail-mounted method is added for 63/100 frame



A new boss design, optimized panel structure, with large or small panels supported



Self-tapping screw mounting supported for 250 and below case



Product Overview

■ Product Introduction

CDM3S series moulded case circuit breaker (hereinafter referred to as CDM3S) is a mechanical switch that can make, carry and break the current under the normal circuit conditions in the low voltage distribution line, and can make, carry and break the current for some time under the specified abnormal circuit. In case of overload, short circuit or undervoltage (accessory function) of the power distribution line, the protection can be provided for lines and equipment. It is widely used in low voltage electrical applications such as power, building, industry, and OEM.

- Frame size: 63AF, 125AF, 160AF, 250AF, 400AF, 630AF, 800AF, 1250AF, 1600AF
- Rated operating voltage U_e : 400/415 V, 500 V, 690 V
- Breaking capacity: covering the common breaking capacity in the power distribution field: 25 kA, 35 kA, 50 kA, 70 kA, 75 kA

(Specific breaking capacity of each frame refers to the Parameters table)

- Number of poles: including 2-pole, 3-pole and 4-pole products
- Release type: Single magnetic type and thermal magnetic type
- Installation method: Fixed type, insert type, and drawer type

■ Standards

Applied standards:

- GB/T 14048.1 General
- IEC 60947-1 General
- GB/T 14048.2 Circuit breaker
- IEC 60947-2 Circuit breaker

Limit environment standard:

- IEC 60068-2-1 (low temperature) GB/T 2423.1
- IEC 60068-2-2 (high temperature) GB/T 2423.2
- IEC 60068-2-30 (alternating hot and humid) GB/T 2423.2

■ Pollution level

The CDM3S running pollution level is Level 3

Used in the environment (industrial environment) defined in the IEC 60947-1 and 60664-1.

■ Protection grade

CDM3S body comply with the IP protection grade: IP30 (except for terminal block)

CDM3S circuit breaker installed in a switch gear: Circuit breaker with a toggle handle: IP40

Circuit breaker with a rotary handle: IP40

Circuit breaker with a motor mechanism: IP40

■ Altitude

Normal work altitude: $\leq 2000\text{m}$

If the altitude of the installation site exceeds 2000m, the factor of the change of dielectric strength and the reduction of air temperature must be considered. Please refer to the altitude derating coefficient table, or contact our company.



■ Ambient temperature

Normal working conditions: -5 to 40°C; for -40°C to -5°C and 40°C to 70°C, please contact our company.

When the ambient temperature exceeds 40°C, refer to the temperature derating coefficient table.

Storage temperature: -40 to 70°C

(If the storage temperature is below the normal working temperature, the product can be put into operation only after at least 24h when it resumes to the working temperature)

■ Humidity

Normal working humidity: Under the ambient air temperature +40°C, the relative air humidity does not exceed 50%; if the temperature is low, the product can be used under a higher relative humidity condition, such as: up to 90% at +20°C.

Special measures are taken for condensation occasionally occurred due to temperature changes:

Reliable contact indicator with isolation function

Isolation defined in the IEC standard GB/T 14048.2

- The isolation position corresponds to the O (OFF) position
- Only when the contact opens, the operating handle can indicate the "OFF" position
- The rotary handle or motor mechanism may not change the reliability of the contact indicating system



Technical Parameters

Frame current		CDM3S-63			CDM3S-125			CDM3S-125b			CDM3S-160			
Rated operating voltage Ue (V) 50/60 Hz		230/240/400/415			230/240/400/415			400/415/500V/690V			230/240/400/415/500/690			
Rated current In (A)		10/16/20/25/32/40/50/63			10/16/20/25/32/40/50/63/80/100/125			40/50/63/80/100/125			16/20/25/32/40/50/63/80/100/125			
Rated insulation voltage Ui (V)		800			800			800			800			
Rated impulse withstand voltage Uimp (kV)		8			8			8			8			
Number of poles (1P+N, 2P, 3P, 4PA, 4PB)		2/3/4	3/4		2/3/4	3/4		3/4			2/3/4	3/4		3
Short circuit breaking capacity level		C	S	F	C	S	F	S	F	N	S	F	N	H
Limit breaking capacity Icu (KA)	AC 230/240V(1P+N, 2P)	36	-	-	36	-	-	-	-	-	50	-	-	-
	AC 400/415V(2P/3P/4P)	25	35	50	25	35	50	35	50	75	35	50	75	85
	AC 500V(3P/4P)	-	-	-	-	-	-	8	8	8	8	8	8	-
	AC 690V(3P/4P)	-	-	-	-	-	-	8	8	8	8	8	8	-
Run breaking capacity Ics (KA)	AC 230/240V(1P+N, 2P)	25	-	-	25	-	-	-	-	-	35	-	-	-
	AC 400/415V(2P/3P/4P)	15	21	36	15	21	36	21	36	50	21	36	50	65
	AC 500V(3P/4P)	-	-	-	-	-	-	4	8	8	4	8	8	-
	AC 690V(3P/4P)	-	-	-	-	-	-	4	8	8	4	8	8	-
Mechanical life (times)	With maintenance for machinery	40000			40000			40000			40000			
	Without maintenance for machinery	20000			20000			20000			20000			
Electrical life (times)	AC 415V	10000			10000			10000			10000			
Protection type	Power distribution protection (8/10In) (2P not for 8In)	■ 400A for 40A and below product			■ 400A for 40A and below product			■ 400A for 40A and below product			■			
	Motor start protection (12In) (not for 2P)	■ 400A for 40A and below product			■ 400A for 40A and below product			■ 400A for 40A and below product			■			
Trip mode	Thermal magnetic trip	■			■			■			■			
	Single magnetic trip	■			■			■			■			
Wiring method	Fixed type front-panel wiring	■			■			■			■			
	Fixed type back-panel wiring (not for 2P)	■			■			■			■			
	Plug-in type front-panel wiring (not for 2P)	■			■			■			■			
	Plug-in type back-panel wiring (not for 2P)	■			■			■			■			
	Pull-out type back-panel wiring (not for 2P)	-			-			-			-			
Installation method	Screw/nut mounted (8-12mm) (standard)	■			■			■			■			
	Self-tap screw mounted (optional)	■			■			■			■			
	Rail-mounted (TH35) (optional)	■			■			-			-			
	Undervoltage release	■			■			■			■			
Product accessories (optional)	Shunt release	■			■			■			■			
	Alarm contact	■			■			■			■			
	Aux. alarm	■			■			■			■			
	Aux. contact	■			■			■			■			
	Motor mechanism CD2 (not for 2P)	■			■			■			■			
	Manual mechanism (not for 2P)	■			-			■			■			
Product accessories (standard)	Extended handle (not for 2P)	-			■			-			■			
	Phase partition (standard)	■			■			■			■			
Derivation function	Overload alarm non-trip (not for 2P)	-			-			-			■ ■			
Isolation function		■			■			■			■			
Selectivity categories		Class A			Class A			Class A			Class A			
Certification		CCC/CE			CCC/CE			CCC/CE			CCC/CE			
Outline dimensions (mm)	Width (2P/3P/4P)	56/75/100	77/102		56/75/100	77/102		92/122		92/122	79/107/142		107/142	
	Height	132	132		132	132		150		150	165		165	
	Depth	66	78.5		68(2P)/66	78.5		75		93	77		94	

Note: * 4PA: No overcurrent trip element is installed for N pole; N pole is always powered on, and is not powered on and off with other three poles

4PB: No overcurrent trip element is installed for N pole; N pole is always powered on and off with other three poles (N pole is powered on and then powered off)

CDM3S-250				CDM3S-400			CDM3S-630			CDM3S-630b			CDM3S-800			CDM3S-1250			CDM3S-1600	
230/240/400/415/500/690				400/415/500V/690V			400/415/500V/690V			400/415/500V/690V			400/415/500V/690V			400/415/500V/690V			400/415/500/690V	
100/125/140/160/180/200/225/250				200/225/250/315/350/400			400/500/630			400/500/630			630/700/800			1000/1250			800/1000/1250/1600	
800				800			800			800			1000			1000			1000	
8				8			8			8			12			12			12	
2/3/4	3/4	3		3/4	3		3/4	3		3/4	3		3/4	3		3/4			3	
S	F	N	H	F	N	R	F	N	R	F	N	R	F	N	R	F	N		F	N
50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	50	75	85	50	75	100	50	75	100	50	75	100	50	75	100	50	70	50	70	
8	8	8	-	10	10	-	-	10	-	10	10	-	10	10	-	15	15	30	30	
8	8	8	-	10	10	-	-	10	-	10	10	-	10	10	-	15	15	30	30	
35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	36	50	65	36	50	75	36	50	75	36	50	75	36	50	75	36	50	36	50	
4	8	8	-	5	10	-	-	10	-	10	10	-	10	10	-	15	15	20	20	
4	8	8	-	5	10	-	-	10	-	10	10	-	10	10	-	15	15	20	20	
40000				20000			20000			10000			10000			10000			10000	
20000				10000			10000			8000			8000			5000			5000	
10000				8000			8000			5000			5000			2500			2500	
■				■			■			■			■			■			■	
■				■			■			■			■			■			-	
■				■			■			■			■			■			■	
■				■			■			■			■			■			■	
■				■			■			■			■			-			-	
■				-			-			-			-			-			-	
■				■			■			■			■			-			-	
-				■			■			■			■			-			-	
■				■			■			■			■			■			■	
■				-			-			-			-			-			-	
-				-			-			-			-			-			-	
■				■			■			■			■			■			■	
■				■			■			■			■			■			■	
■				■			■			■			■			■			■	
■				■			■			■			■			■			■	
■				■			■			■			■			■			■	
■				■			■			■			■			■			■	
■				■			■ (standard)			■ (standard)			■ (standard)			■ (standard)			■ (standard)	
■				■			■			■			■			■			■	
-	■	■		■			-			■			-			-			-	
■				■			■			■			■			■			■	
Class A				Class A			Class A			Class A			Class A			Class A			Class A	
CCC/CE				CCC/CE			CCC/CE			CCC/CE			CCC/CE			ccc			CCC	
79/107/142		107/142		150/198			150/198			182/240			210/280			210/280			223	
165		165		257			257			257			280			275.5			408	
77		94		108			108			110			118.5			103			149	



■ Derating coefficient table

Working at the 2000m or below altitude will not cause influence on the performance of circuit breaker. If the altitude exceeds 2000m, the reduction factor of air insulation features and cooling capacity must be considered: the coefficient listed in the table below must be used for correction.

Altitude (m)	2000	2500	3000	3500	4000	4500	5000
Insulation voltage U_i (V)	800	728	728	664	664	616	616
Impulse withstand voltage U_{imp} (kV)	8	7	7	6.5	6.5	6	6
Max. operating voltage U_e (V)	690	690	690	660	600	600	550
Power frequency voltage (V)	2000	1820	1820	1660	1660	1540	1540
Rated operating current under 40°C environment I_n (A)	$1I_n$	$0.98I_n$	$0.94I_n$	$0.92I_n$	$0.88I_n$	$0.86I_n$	$0.85I_n$

■ Temperature derating coefficient table

The ambient temperature of the product is ranged -5°C to 40°C. When the temperature exceeds 40°C, high temperature will affect the performance of release, and the overload protection will change very slightly. In the release time/current curve, the I_r setting value of circuit breaker must be corrected according to the coefficient listed in table below. If the working temperature is ranged -40°C to 25°C, please contact our company.

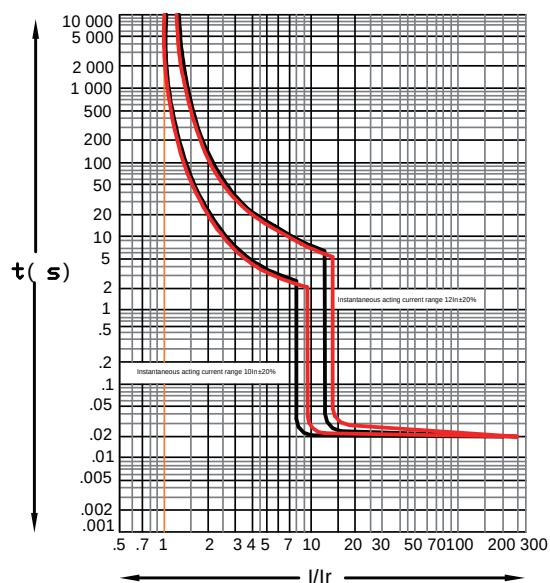
Product line	Circuit breaker model	Ambient temperature °C														
		-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	40°C	45°C	50°C	55°C	60°C	70°C
CDM3S	63C/S	1.36	1.34	1.33	1.32	1.3	1.29	1.25	1.2	1.15	1	0.96	0.95	0.93	0.91	0.87
	125S	1.35	1.34	1.33	1.32	1.3	1.29	1.25	1.2	1.15	1	0.96	0.95	0.93	0.91	0.86
	125C/S	1.35	1.33	1.31	1.3	1.29	1.19	1.16	1.14	1.12	1	0.96	0.95	0.93	0.91	0.86
	63F/125F/125bF/125bN	1.36	1.35	1.33	1.31	1.3	1.2	1.17	1.15	1.13	1	0.97	0.96	0.94	0.92	0.88
	160S	1.36	1.35	1.34	1.33	1.31	1.25	1.21	1.19	1.15	1	0.92	0.94	0.94	0.91	0.85
	160F/N/H	1.4	1.38	1.37	1.36	1.33	1.27	1.23	1.2	1.16	1	0.93	0.95	0.94	0.93	0.86
	250S	1.43	1.42	1.36	1.32	1.28	1.24	1.17	1.16	1.14	1	0.92	0.96	0.93	0.91	0.81
	250F/N/H	1.48	1.46	1.39	1.35	1.3	1.26	1.19	1.17	1.15	1	0.93	0.95	0.93	0.91	0.88
	400F/N/H	1.59	1.58	1.55	1.52	1.44	1.42	1.4	1.32	1.28	1	0.94	0.94	0.92	0.87	0.87
	630F/N/R	1.41	1.39	1.35	1.31	1.29	1.24	1.21	1.15	1.13	1	0.94	0.93	0.92	0.9	0.86
	630bF/N/R	1.41	1.39	1.35	1.31	1.29	1.24	1.21	1.15	1.13	1	0.94	0.93	0.92	0.9	0.86
	800F/N/R	1.4	1.37	1.35	1.33	1.31	1.29	1.24	1.22	1.18	1	0.95	0.94	0.93	0.91	0.79
	1250F/N	-	-	-	-	-	-	-	-	1.18	1	0.96	0.89	0.83	0.75	-
	1600F/N	-	-	-	-	-	-	-	-	1.16	1	0.98	0.96	-	-	-

*Note that the correction coefficient is used to express the action value, and doesn't mean that the product can work under the increased current.

■ Trip curve diagram

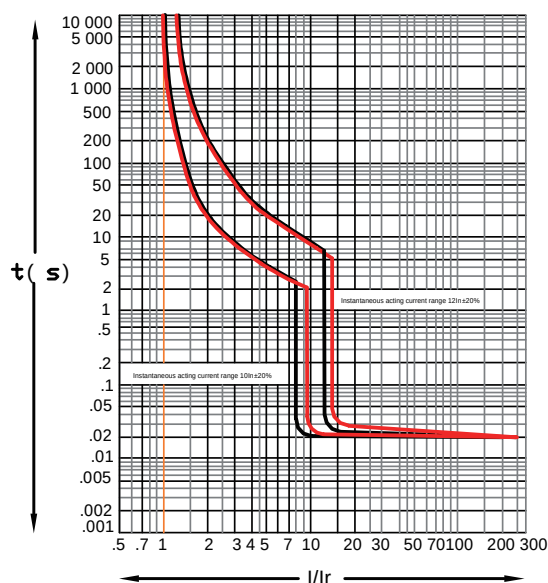
CDM3S -63AF

CDM3S-63AF 40A-63A black line is power distribution protection, and red line is motor start protection;
10A-32A instantaneous action current is $400A \pm 20\%$



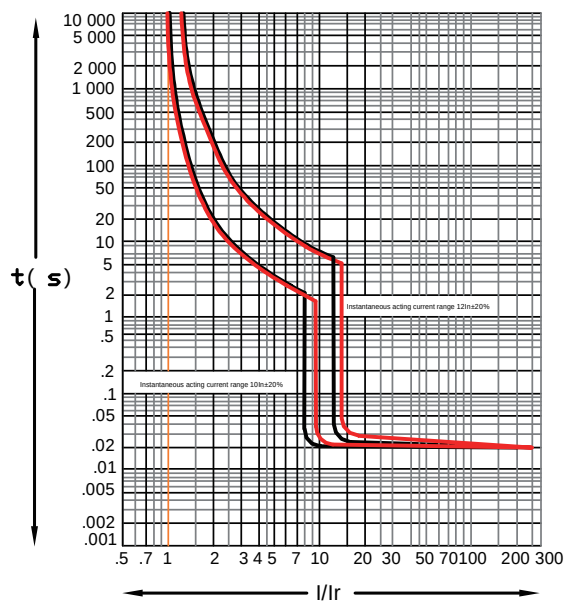
CDM3S-63F, 125AF

CDM3S-63F, 125AF 10~125A black line is for power distribution protection, and the red line for motor protection;
10~32A Instantaneous operating current is $400A \pm 20\%$



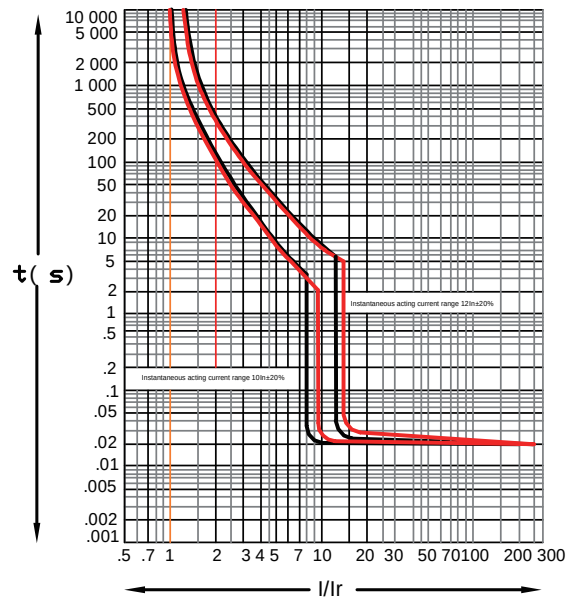
CDM3S-125bAF

CDM3S-125bAF 40A-100A black line is for power distribution protection, and the red line for motor starting protection;
16A-32A Instantaneous operating current is $400A \pm 20\%$



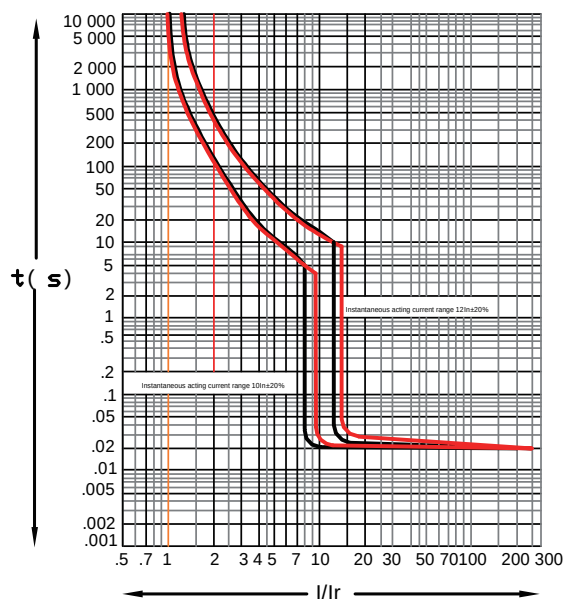
CDM3S-160/250AF

CDM3S-160AF 100A-160A black line is for power distribution protection, and the red line for motor starting protection;
CDM3S-250AF 100A-250A black line is for power distribution protection, and the red line for motor starting protection;



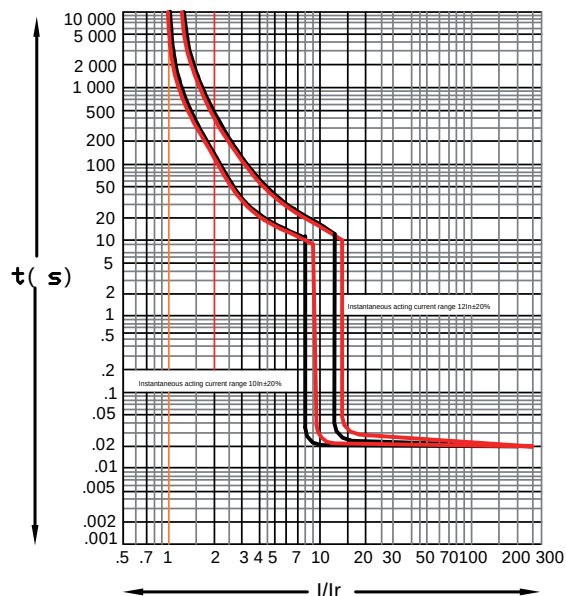
CDM3S-400AF

CDM3S-400AF 250A-400A black line is for power distribution protection, and the red line for motor protection;



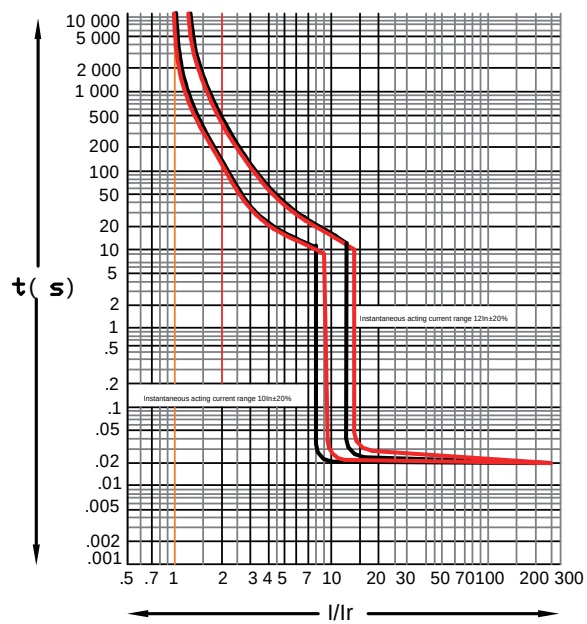
CDM3S-630AF

CDM3S-630AF 400A-630A black line is for power distribution protection, and the red line for motor protection;



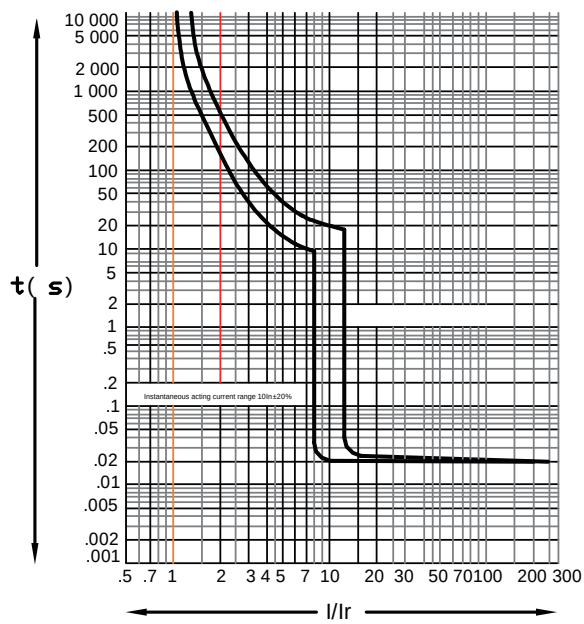
CDM3S-630bAF

CDM3S-630bAF 400A-630A black line is for power distribution protection, and the red line for motor protection;

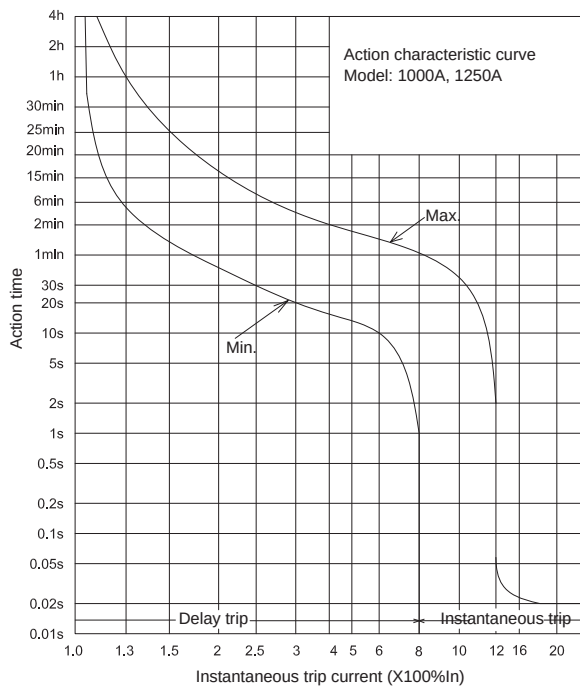


CDM3S-800AF

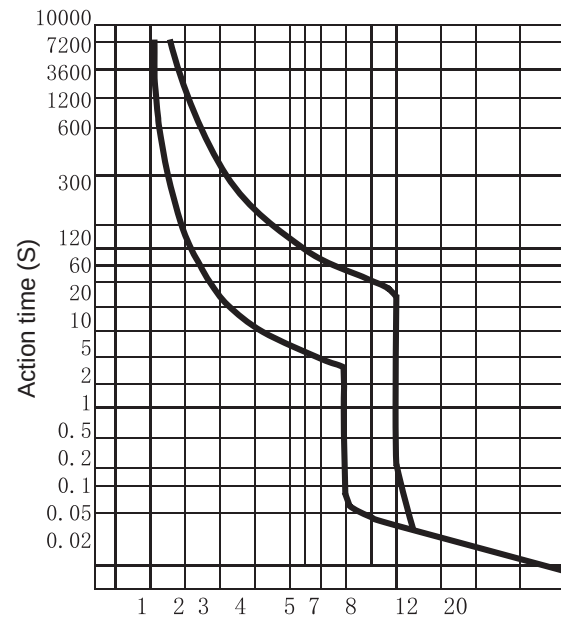
CDM3S-800AF 630A-800A black line is for power distribution protection



CDM3S-1250AF



CDM3S -1600AF



Product Accessories

- Electrical accessories: shunt release, undervoltage release, aux. contact, alarm contact, and aux. alarm integrated module
- Installation accessories: fixed back-panel installation accessories, plug-in type installation accessories, pull-out type installation accessories
- Operation accessories: manual mechanism, motor mechanism, handle lock, extended handle
- Other accessories: zero arcing shield, cable connector, dust cover, phase partition, extended terminal



Shunt release



Aux. Contact



Undervoltage release



Alarm contact



Aux. alarm integrated module



Fixed back-panel installation accessories



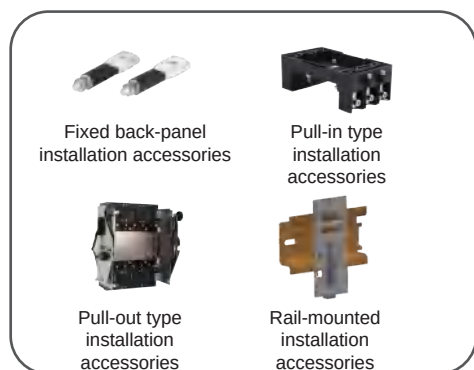
Pull-in type installation accessories



Pull-out type installation accessories



Rail-mounted installation accessories



Manual mechanism



Motor mechanism



Handle lock



Extended handle



Zero arcing shield



Junction pole



Terminal cover



Extended terminal



Extended terminal



■ Accessories Selection

Electrical accessories

CDM3S	Frame current	Installation position	Accessory name	Voltage form (shunt/undervoltage)	Form
	63/125	Left	Shunt	AC230	Lead wire 0.5m (by default)
	125b	Right	Alarm	AC400V	Lead wire 1m
	160/250		Undervoltage	DC24V	Lead wire 1.5m
	400/630		Aux.	DC110V/AC110V	Lead wire 2m
	630b		Dual-aux.	DC220V	Terminal
	800		Aux. alarm		
	1250				
	1600				

Note: Except that the external undervoltage electrical accessory form is lead wire 0.5, 1m, 1.5m, and 2m are optional; the default form of the undervoltage type is terminal

Shunt voltage types: AC400V, AC230V/DC220V, DC24V, DC110V/AC110V

Undervoltage voltage type: AC400V, AC230V (With left installation supported only)

Operating accessories

CDM3S	Frame current	Accessory name	Voltage form
	63/125	Motor mechanism	AC230V/DC220V
	125b	Square manual mechanism	AC400V
	160/250	Round manual mechanism	DC24V
	400/630	Extended square manual mechanism	DC110V/AC110V
	630b	Extended round manual mechanism	
	800	Extended round manual mechanism	
	1250		
	1600		

Other accessories

CDM3S	Frame current	Accessory name	Number of poles
	63/125*	Extended terminal	3P
	125b	Phase partition	4P
	160/250	Junction pole	
	400/630	Handle position lock	
	630b	Terminal cover	
	800		
	1250		
	1600		

Note: There is no handle position lock for 125C/S breaking. Accessories are being developed, so stay tuned.



■ Code and installation position of electrical accessory

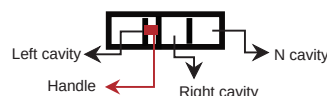
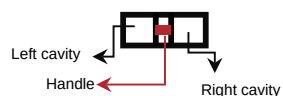
□ Alarm contact

■ Aux. Contact

● Shunt release

○ Undervoltage release

Installation diagram



Accessory name	Accessory code		CDM3S-63		CDM3S-125		CDM3S-160/250		CDM3S-400/630/800/1250		CDM3S-1600
Electromagnetic type	Electromagnetic release	Thermal magnetic release	3P	4P	3P	4P	3P	4P	3P	4P	3P
00: No internal accessories	200	300	■	■	■	■	■	■	■	■	■
08: Alarm	208	308	□ ■	□ ■	□ ■	□ ■	□ ■	□ ■	□ ■	□ ■	■ □
10: Shunt	210	310	■ ●	■	■ ●	■ ●	■	■ ●	■ ●	■ ●	● ■
20: Aux.	220	320	■ ■	■ ■	■ ■	■ ■	■ ■	■ ■	■ ■	■ ■	■ ■
28: Aux. alarm	228	328	□ ■ ■	□ ■ ■	□ ■ ■	□ ■ ■	□ ■ ■	□ ■ ■	□ ■ ■	■ ■ □	
30: Undervoltage	230	330	■	■	■	■	■	■	■	■	■
40: Shunt+Aux.	240	340	■ ■ ●	■ ■ ●	■ ■ ●	■ ■ ●	■ ■ ●	■ ■ ●	■ ■ ●	■ ■ ●	● ■ ■
50: Shunt+Undervoltage	250	350	■ ●	■ ●	■ ●	■ ●	■ ●	■ ●	■ ●	■ ●	—
60: Dual-aux.	260	360	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■
70: Undervoltage+Aux.	270	370	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■
18: Shunt+Alarm	218	318	□ ■ ●	□ ■ ●	□ ■ ●	□ ■ ●	□ ■ ●	□ ■ ●	□ ■ ●	□ ■ ●	● ■ □
38: Undervoltage+Alarm	238	338	■ □	■ □	■ □	■ □	■ □	■ □	■ □	■ □	■ □
48: Shunt+Aux.+Alarm	248	348	□ ■ ■ ●	□ ■ ■	□ ■ ■ ●	□ ■ ■ ●	□ ■ ■ ●	□ ■ ■ ●	□ ■ ■ ●	□ ■ ■ ●	● ■ □ ■
68: Aux.+Aux.+Alarm	268	368	□ ■ ■ ■	□ ■ ■ ■	□ ■ ■ ■	□ ■ ■ ■	□ ■ ■ ■	□ ■ ■ ■	□ ■ ■ ■	□ ■ ■ ■	—
78: Undervoltage+Aux.+Alarm	278	378	■ □ ■	■ □ ■	■ □ ■	■ □ ■	■ □ ■	■ □ ■	■ □ ■	■ □ ■	■ □ ■
80: Shunt+Dual aux. (2K2B)	280	380	■ ■ ■ ●	■ ■ ■ ●	■ ■ ■ ●	■ ■ ■ ●	■ ■ ■ ●	■ ■ ■ ●	■ ■ ■ ●	■ ■ ■ ●	● ■ ■ ■ ■
90: Undervoltage + Dual-aux. (2K2B)	290	390	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	
09: Alarm+Alarm	209	309	□ ■ □	□ ■ □	□ ■ □	□ ■ □	□ ■ □	□ ■ □	□ ■ □	□ ■ □	—

Notes:

- For CDM3S-63C/125C/160S/250S-2P product, only an accessory is installed in the right cavity, and optional accessories include alarm, shunt, auxiliary, auxiliary alarm, and undervoltage.
- The default assembly mode is lead (0.5m) for auxiliary, alarm, shunt, dual auxiliary, and auxiliary alarm, and the terminal is optional.
- The default length of the electrical accessory lead is 0.5m;
- The assembly mode of the undervoltage is terminal.

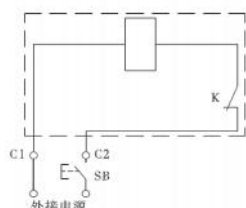
■ Shunt release

· Function: The shunt release is an accessory used to control the OFF action remotely;

When the voltage is 70%-110% of the rated control power voltage, the shunt release can work to reliably trip the circuit breaker;

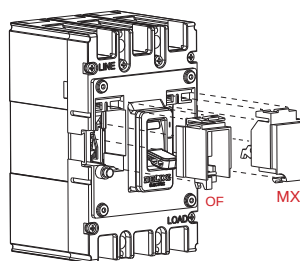
The circuit breaker can reset locally after trip by the shunt release.

· Shunt wiring diagram



Note: The wiring diagram of internal accessories of circuit breaker is shown in the dashed box.

· MX installation diagram



· MX shunt release



Electrical specifications

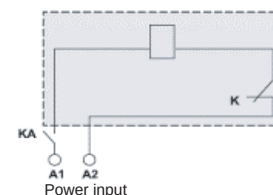
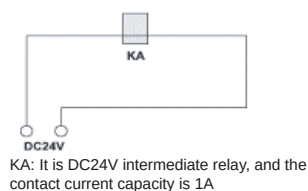
Product model CDM3S-	Installation position	Min. operating power of shunt coil (W)		
		AC400V	AC230V	DC24
63/125	Left and right cavities -	155	150	96
125b	Left and right cavities -	120	75	115
160/250(2P)	Left and right cavities -	155	150	96
160/250(3P/4P)	Left cavity -	135	165	109
	Right cavity -	85	75	90
400/630/800	Left and right cavities -	101	60	98
1250	Left and right cavities -	101	60	98
1600	Left cavity -	175	130	80

*Note: When the rated control power voltage is DC24V, there are two solutions:

1: The maximum length of copper wire shall meet the following requirements:

Sectional area of wire	1.5mm ²	2.5mm ²
Rated control power voltage U _c (DC24V)		
100%U _c	150m	250m
80%U _c	100m	160m

2: If failed to meet the requirements of the above table, it is recommended that the following wiring method is used to design the shunt release control circuit:



■ Undervoltage release

· Function: To realize the undervoltage protection function of circuit breaker; it can open the circuit breaker when the power voltage is too low for protection of electrical equipment;

When the voltage is 35%-70% rated operating voltage, the undervoltage release shall work to make the circuit breaker trip reliably;

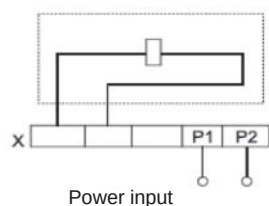
When the voltage is 80%-110% rated operating voltage, the undervoltage release shall work to close the circuit breaker;

When the voltage is below 35% rated operating voltage, the undervoltage release shall prevent the circuit breaker from being closed;

· Undervoltage wiring diagram

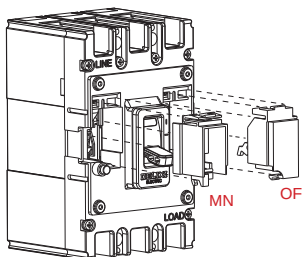
· Undervoltage release installation diagram

· MN undervoltage release



Note: X-Terminal block

Note: The wiring diagram of internal accessories of circuit breaker is shown in the dashed box.



Electrical features

Product model CDM3S-	Undervoltage coil holding power (W)		Min. suction power of undervoltage coil (W)	
	AC400V	AC230V	AC400V	AC230V
63/125	0.94	0.94	Suction-assisted type	Suction-assisted type
125b	0.44	0.44	Suction-assisted type	Suction-assisted type
160/250(2P)	0.94	0.94	Suction-assisted type	Suction-assisted type
160/250(3P/4P)	0.6	0.6	Suction-assisted type	Suction-assisted type
400/630/800	0.77	0.75	225	190
1250	6	2.3	Suction-assisted type	Suction-assisted type
1600	1.12	1.08	Suction-assisted type	Suction-assisted type

■ Alarm contact

· Function: used to indicate the non-trip (ON or OFF) or trip (Trip) state of accessory of the circuit breaker; when the alarm contact indicates that the circuit breaker is at the Trp (trip) state, the following situations may occur:

1. With overload or short circuit fault
2. Artificial test button trips
3. Shunt release works
4. Line fault, undervoltage release works



Electrical wiring diagram

Accessory name	ON/OFF	Trip
Alarm contact		

Electrical parameters of alarm contact

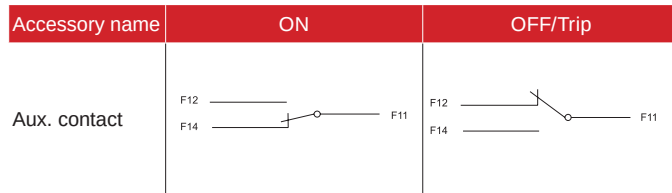
Resistive current (A)	3A		
Usage category GB14048.5-1	AC15	DC13	
Operating voltage 50/60 HZ	AC400V	0.3A	-
	DC220V	-	0.15A

Aux. contact

· Function: Connected to the electrical auxiliary circuit of switch to indicate that the circuit breaker is in the ON or OFF(Trip) state.



Electrical wiring diagram

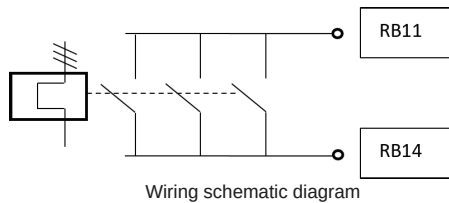


Electrical parameters of alarm contact

Resistive current (A)	3A		
Usage category GB14048.5-1	AC15	DC13	
Operating voltage 50/60 HZ	AC400V	0.3A	-
	DC220V	-	0.15A

Overload alarm non-trip

· The product uses one set of normally-open contact; when any phase of product is overloaded, the product will issue an alarm signal within a certain delay time range.



Electrical parameters

Operating current	Operating current
AC250V	0.5A
DC230V	0.5A

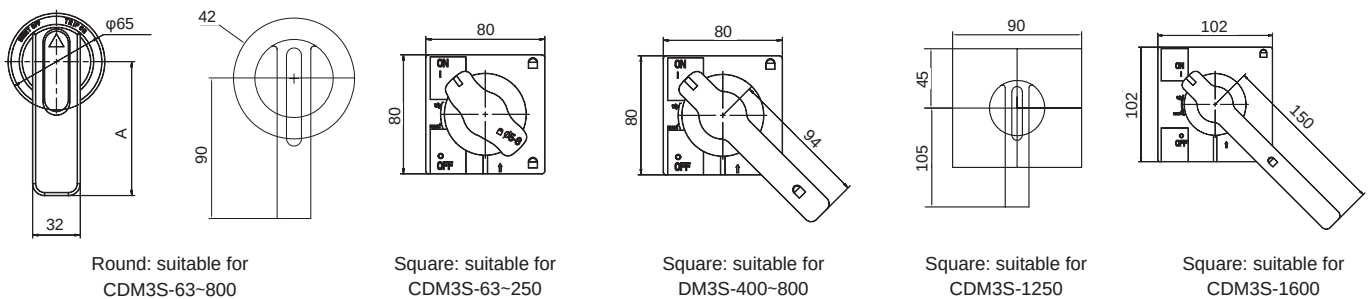
- 1.The product with this function is not equipped with an overload protection.
- 2.When the overload fault is eliminated, this product still maintains the alarm state for some time due to thermal effects.
- 3.The product uses lead wire structure by default, and the default wire length is about 220mm.

Manual mechanism

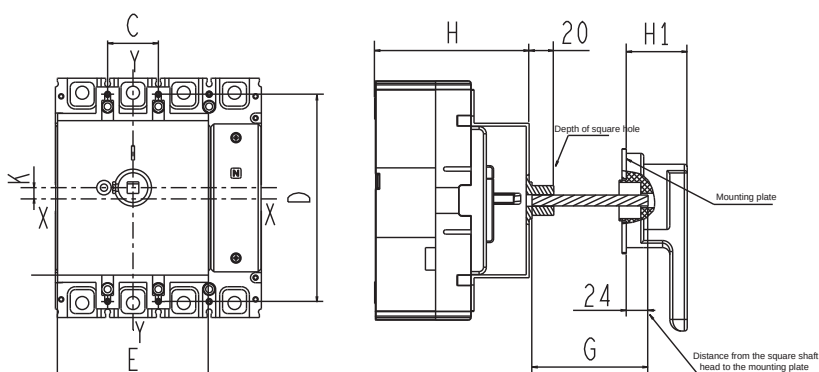
- Operate the circuit by turning the handle; the use of rotary handle that complies with the ergonomics design can make the operation of circuit breaker more flexibly
- There are two forms of rotary handle operating mechanism;
Direct rotation of manual mechanism (round manual mechanism, square manual mechanism)
Extended rotation of manual mechanism (round extended manual mechanism, and square extended manual mechanism)
- User visualization information and setting
Three position indications: OFF, ON, TRIP
When the door opens, the circuit breaker cannot be closed; when the circuit breaker in the closed state, the door cannot open
The axial length of extended handle can be customized, depending on the distance from the back of the circuit breaker to the door.



Dimensions of direct manual mechanism



Installation dimensions of manual operating mechanism



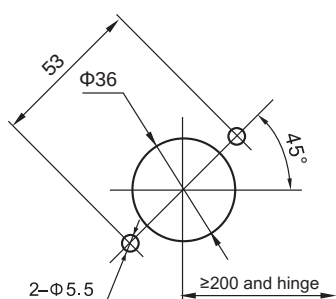
Product model CDM3S-	A*	C	D	E	H	G*direct manual operating mechanism	G*extended manual operating mechanism (by default)	Height of round handle H1	Height of square handle H1	Offset between the center of base and the center of manual mechanism K
63/125C 125S	65	25	111	75	110	40	150	48	48	0
63F, 125F	65	25	111	75	122.5	40	150	48	48	0
125bS	65	30	129	92	106	40	150	48	48	0
125bF/N	65	30	129	92	124	40	150	48	48	0
160/250S	65	35	143	105	107	40	150	48	48	0
160/250F/N/H	65	35	143	105	124	40	150	48	48	0
400F/N/R	95	44	215	150	154	40	150	48	70	5
630F/N/R	95	44	215	150	154	40	150	48	70	5
630bF/N/R	95	58	200	182	155	40	150	48	70	-6
800F/N/R	95	70	243	208	175	40	150	48	70	0
1250F/N	90	70	243	210	173	-	150	47	48	0
1600F/N	-	70	320	193	236	40	150	-	91	-

Notes: 1. A* 95mm is optional for 63-250, and 125mm is optional for 400-800.

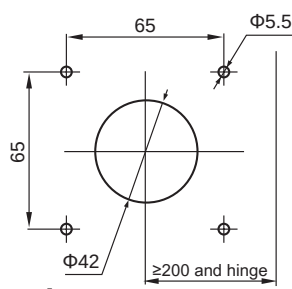
2. G*: If other length is required, please contact the manufacturer for customization.

3. The CDM3S-400/630/630b manual mechanism is operated not at the center, so the value K shall be followed when drilling hole.

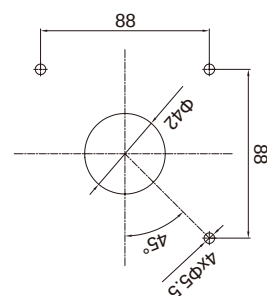
Dimensions of mounting hole of cabinet door



Hole on round handle cabinet
door CDM3S-63~1250



Hole on square handle cabinet
door CDM3S-63~1250



Hole on square handle
cabinet door CDM3S-1600

■ Motor Mechanism

· Function: suitable for remote and electric closing and opening, re-trip and automatic control application of circuit breaker

Rated voltages of motor mechanism: AC400V; AC230V/DC220V; AC110V/DC110V; DC24V

Motor mechanism operating voltage range: 80%-110%Ue

· Voltage and allowable range of CD2 motor mechanism

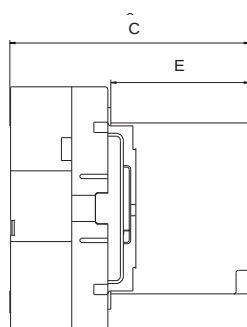
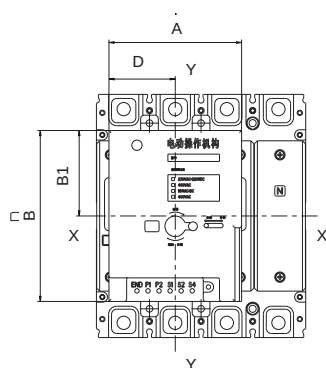
CD2: 63A-250A: The operating frequency is greater than 180 times per hour, and the action time is $\leq 0.7s$

CD2: 400A-1600A: The operating frequency is not greater than 60 times per hour, and the action time is $\leq 1s$

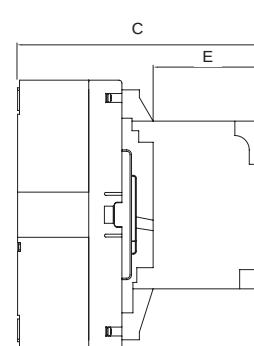
· When the circuit breaker of the motor mechanism trips, the motor mechanism must open and then closed.



Dimensions of motor mechanism



CDM3S-63~630/1600



CDM3S-800/1250

Product model CDM3S-	A	B	B1	C	D	E
63/125C 125S	75	112	56	151	37.5	93
63F/125F	75	112	56	163.5	37.5	93
125bS	91	116	58	159	45.5	92
125bF/N	91	116	58	177	45.5	92
160/250S	91	118	59	163	45.5	96
160/250F/N/H	91	118	59	180	45.5	96
400F/N/R	131	175	95.5	243.5	65.5	147
630F/N/R	131	175	95.5	243.5	65.5	147
630bF/N/R	131	175	84.5	240	65.5	142
800F/N/R	131	175	99	255	65.5	115
1250F/N	210	174	87	190.3	105	78
1600F/N	131	177	63	281	65.5	141

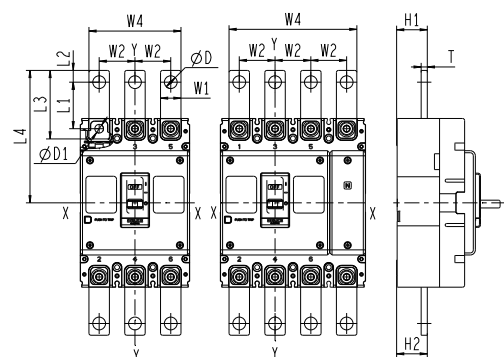


■ Extended terminal

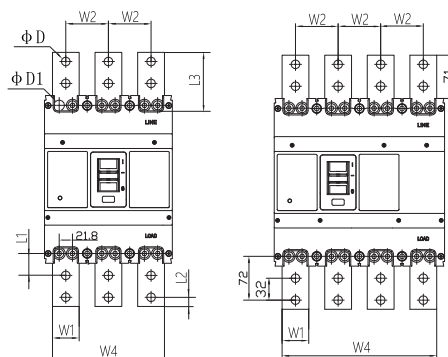
The extended terminal is connected to the standard terminal of circuit breaker to provide multiple wiring schemes in a small space:

Busbar and extended terminal can be connected to the inlet terminal or outlet terminal of circuit breaker.

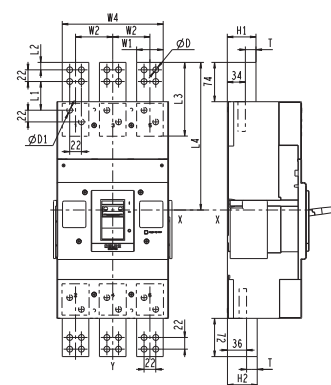
Dimensions of straight extended terminal



Straight extended terminal,
suitable for CDM3S-63~800



Straight extended terminal,
suitable for CDM3S-1250



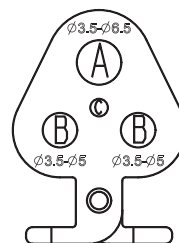
Straight extended terminal,
suitable for CDM3S-1600

Product model CDM3S-	Number of poles	Dimensions of straight extended terminal											
		L1	L2	L3	L4	W1	W2	W4	H1	H2	T	φD1	φD
63/125	3P	24.5	8	40	90.5	16	25	66	26.5	26.5	3	8	8
	4P							91					
125bS	3P	24.5	8	40	98.5	16	30	76	27	26.5	3	8	8
	4P							106					
125bF/N	3P	24.5	8	40	98.5	16	30	76	31.5	31	3	8	8
	4P							106					
160/250S	3P	45.5	11.5	67	129.5	20	35	90	30	30	6	8.5	12.5
	4P							125					
160/250F/N/H	3P	45.5	11.5	67	129.5	20	35	90	29	29	6	8.5	12.5
	4P							125					
400F/N/R	3P	42.5	16.2	70	171.2	29.5	48	125.5	44.5	44.5	8	10.5	12.5
	4P							173.5					
630F/N/R	3P	42.5	16	70	171	30	48	126	48.5	48.5	12	10.5	12.5
	4P							174					
630bF/N/R	3P	86	20	120	217	40	58	156	49.5	49.5	10	13	13
	4P							214					
800F/N/R	3P	71.5	15	97.5	208	44	70	184	50.5	55	10	14	14
	4P							254					
1250F/N	3P	40	28	100	208.8	40	70	184	44/48	51/55	2*8/2*10	10	13
	4P							254					
1600F/N	3P(800A~1250)	53	14	125	278	50	70	190	49	51	15	11	11
	3P(1600A)												

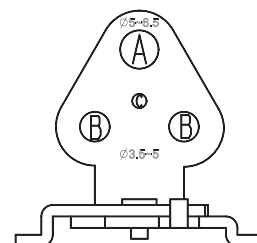
Note: If 1250 shell frame products need to be connected to 20mm thick copper bars, please contact the manufacturer separately to provide M10 * 45mm wiring screws.

■ Handle position lock

Product model CDM3S-	Adapted hole A	Adapted hole B	Hole C sealed	Circuit breaker
	Diameter of padlock	Diameter of padlock	Diameter	Handle locking position
63/125	φ3.5~6.5	φ3.5~5	φ2.6	OFF position (retrip) ON position
125b				
160/250				
400/630	φ5~6.5	φ3.5~5	φ2.6	OFF position (retrip)
630b				
800				



CDM3S-63-250



CDM3S-400-800

Note: The padlock shall be provided by user.

■ Terminal cover

The terminal cover can be used to prevent accidental touch to cause accidents during the operation of circuit breaker for safety. There are long terminal cover (IP30 if installed), short terminal cover, and zero arcing cover for selection by user.

Dimensions of long terminal cover

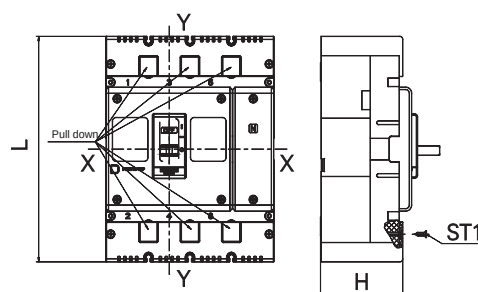
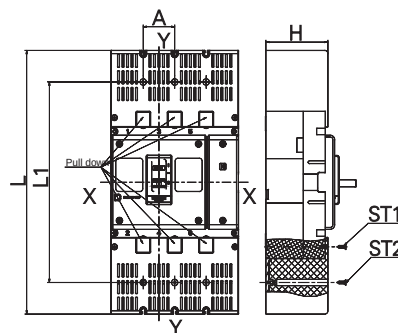
Product model CDM3S-	L	L1	A	H	ST1	ST2
63/125C 125S	250	178	25	58	ST 2.6×10	ST 2.6×10
63F/125F	250	178	25	70.5	ST 2.6×10	ST 2.6×10
125bS	270	204	30	68.5	ST 2.9×10	ST 2.9×10
125bF/N	270	204	30	86.5	ST 2.9×10	ST 2.9×10
160/250S	286	217	35	70	ST 2.9×10	ST 2.9×10
160/250F/N/H	286	217	35	87	ST 2.9×10	ST 2.9×10
400F/N/R	477	365	48	99	ST 2.9×10	ST 2.9×10
630F/N/R	477	365	48	99	ST 2.9×10	ST 2.9×10
630bF/N/R	477	365	58	101	ST 2.9×10	ST 2.9×10
800F/N/R	500	388	70	112	ST 3.5×10	ST 2.9×10
1250 F/N	417.2	-	70	103	-	-

Notes: Screws in the 125C and 125S terminal accessories are not used
To install the long terminal cover for CDM3S-1250, no screw is required for fixation, and it can be fixed on the middle cover of switch with a buckle.

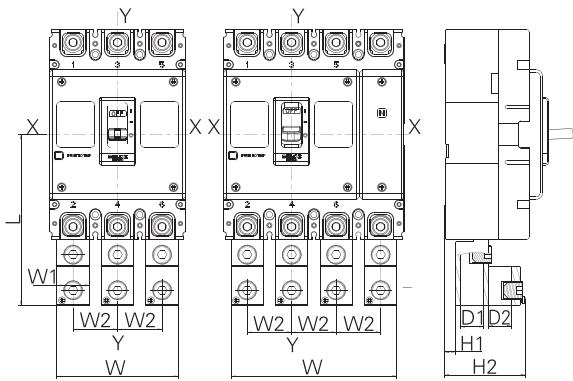
Dimensions of short terminal cover & zero arcing cover

Product model CDM3S-	L	H	ST1
63/125C 125S	150	58	ST 2.6×10
63F/125F	150	70.5	ST 2.6×10
125bS	169	68.5	ST 2.9×10
125bF/N	169	86.5	ST 2.9×10
160/250S	187	70	ST 2.9×10
160/250F/N/R	187	87	ST 2.9×10
400F/N/R	281	99	ST 2.9×10
630F/N/H	281	99	ST 2.9×10
630bF/N/H	281	101	ST 2.9×10
800F/N/H	304	112	ST 3.5×10

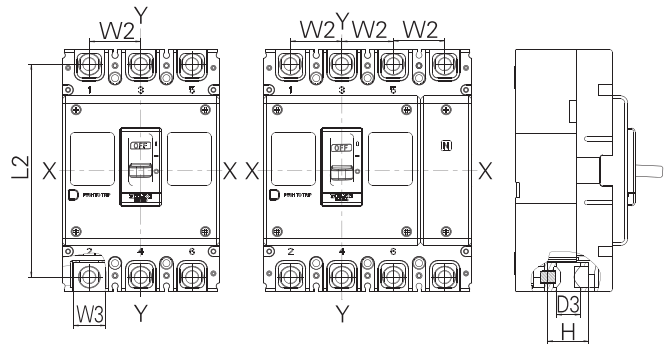
Notes: Screws in the 125C and 125S terminal accessories are not used
2.63 frame, 100 frame, 125bS and 160S frame are not equipped with zero flashover hood



■ Junction pole



External type



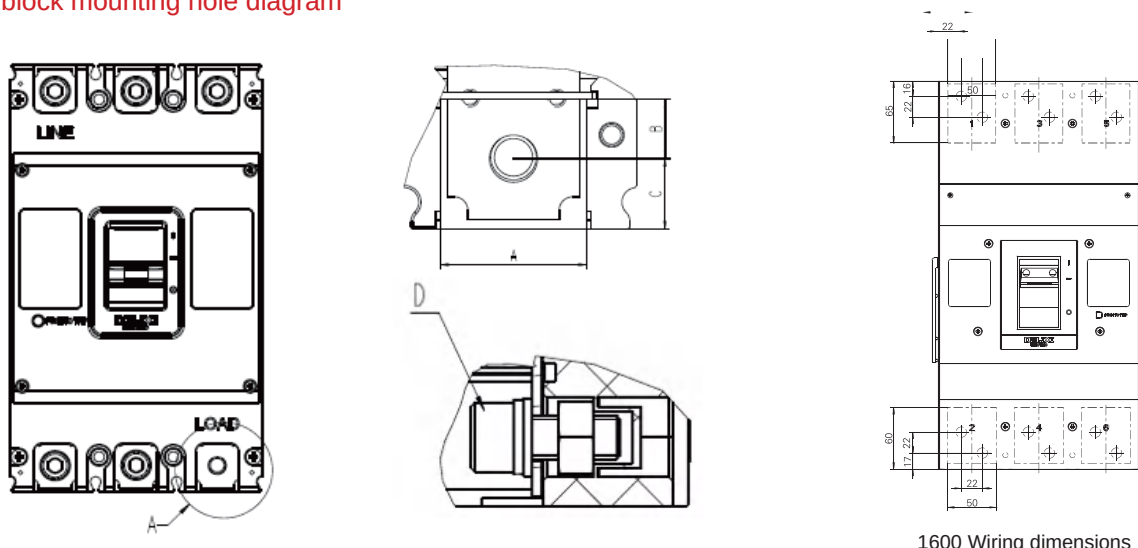
Built-in type

Product model CDM3S-	Number of poles	Installation dimensions											
		L	L2	W1	W2	W3	W	H1	H2	H	D1	D2	D3
63/125	3P	97.5	116	16.6	25	17	66.6	20	46.5	15.8	φ8.5	φ8.5	φ10.5
	4P						91.6						
125b s	3P	118	132	17	30	17	77	17	59	22	φ12	φ12	φ12
	4P						107						
125b F/N	3P	118	132	17	30	17	77	21.5	63.5	22	φ12	φ12	φ12
	4P						107						
160 S	3P	134.5	145	25.4	35	22	96	9.5	56	28	16.5	16.5	16
	4P						131						
160F/N/H	3P	134.5	145	25.4	35	22	96	8.5	55	28	16.5	16.5	16
	4P						131						
250 S	3P	269	-	25.4	35	-	96	11	56	-	16.5	16.5	-
	4P						131						
250F/N/H	3P	269	-	25.4	35	-	96	10	55	-	16.5	16.5	-
	4P						131						



Outline and Installation Dimensions

■ Terminal block mounting hole diagram



Frame	A	B	C	D (2P/3P/4P)
63/125(2P)	18	9	8	M6x16-2
63/125	18	9	8	M6x16-6/8
125bS	19	8	9	M8x16-6/8
125B F/N	19	8	9	M8x16-6/8
160/250 S	26	12.5	10	M8x20-2/6/8
160/250 F/N/H	26	12.5	10	M8x20-6/8
400 F/N/R	33	14	16	M10x25-6/8
630F/N/R	33	14	16	M10x35-6/8
630B F/N/R	44.5	19	17.5	M12x30-6/8
800 F/N/R	45	16	19	M12x35-6/8
1250F/N	45.7	16	19	M10x40-12/16

■ Recommended value of wiring capacity

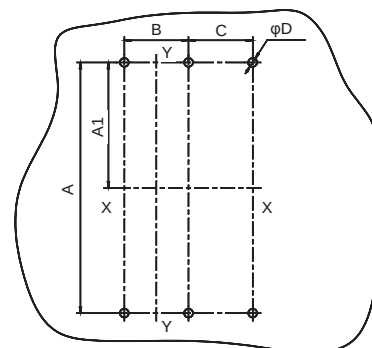
Rated current (A)	10	16 20	25	32	40 50	63	80	100	125 140	160	180 200 225	250	315 350	400
Recommended sectional area of copper wire (mm ²)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	185	240

Rated current (A)	500	630	700 800	1000	1250	1600
Recommended sectional area of copper wire (mm ²)	150×2	185×2	240×2	-	-	-
Recommended sectional area of copper bus (mm ²)	150×2	200×2	250×2	300×2	400×2	500×2

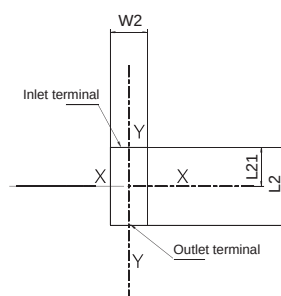
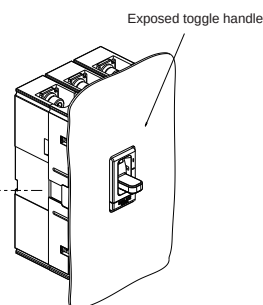
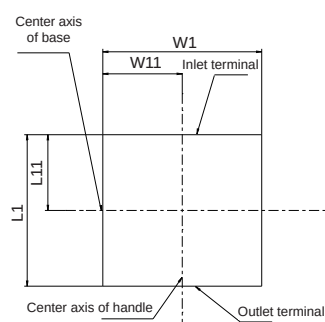
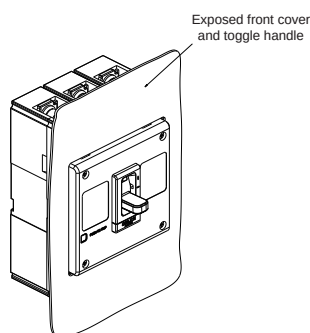
Note: Please note that the sizes C, C1, and C2 in the outline, installation and wiring dimensions of CDM3S series, and the diameter of the appropriate connecting terminal shall comply with the corresponding wiring capacity requirements.

■ Size of the mounting hole of fixed type front-panel

Product model CDM3S-	Number of poles	A	A1	B	C	φD
63/125	2P	111	55.5	-	-	5
	3P	111	55.5	25	25	5
125bS/F/N	3P	129	64.5	30	-	5
	4P				30	
160/250S/F/N/H	2P	126	63	-	-	5
	3P			35	35	
400F/N/R	3P	215	107.5	44	-	6.5
	4P				-	
630F/N/R	3P	215	107.5	44	-	6.5
	4P				-	
630bF/N/R	3P	200	94	58	-	6.5
	4P				-	
800F/N/R	3P	243	121.5	70	-	7.5
	4P				-	
1250 F/N	3P	243	121.5	70	-	6.5
	4P				70	
1600F/N	3P	378	189	70	70	6.2

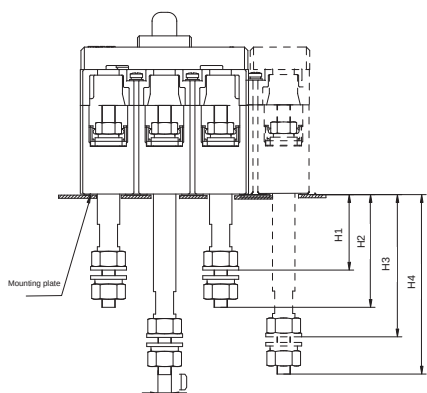


■ Size of hole on panel

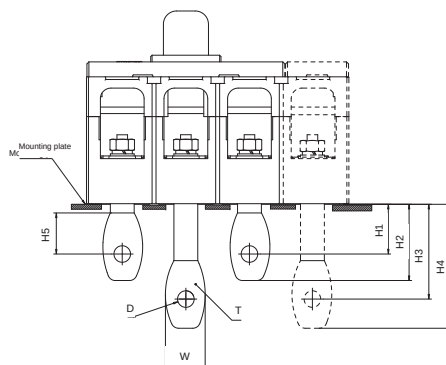


Product model CDM3S-	Number of poles	Exposed front cover and toggle handle				Exposed toggle handle		
		L1	L11	W11	W1	L2	L21	W2
63/125	2P	86	43	29.5	59	53	20	27
63/125 C/S	3P	86	43	39	78	53	20	27
	4P				103			
63/125 F	3P	86	43	40	80	53	20	27
	4P				105			
125b S/F/N	3P	99	49.5	47.5	95	56	25	31
	4P				125			
160/250S/F/N/H	2P	105	52.5	41	82	56	30.5	31
	3P			55	110			
400F/N/R	3P	153	76.5	76.5	153	85	42.5	56
	4P				201			
630F/N/R	3P	153	76.5	76.5	153	85	42.5	56
	4P				201			
630bF/N/R	3P	153	70.5	92.5	185	85	36.5	56
	4P				243			
800F/N/R	3P	138	69	106.5	213	85	42.5	56
	4P				283			
1250F/N	3P	153	76.5	106.5	213	93	46.5	61
	4P				283			
1600F/N	3P	148	53.5	106.5	213	118	38.5	84

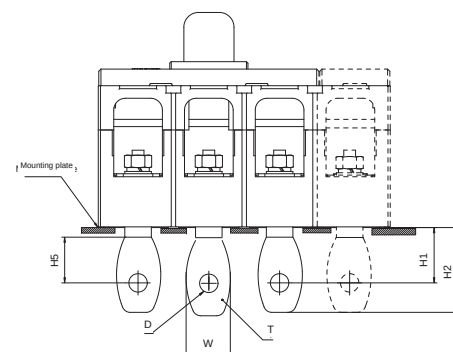
Fixed type back-panel outline dimensions



(Screw) dimensions of CDM3S-63/100~250 fixed type back-panel



(Horizontal) dimensions of CDM3S-400~630 fixed type back-panel

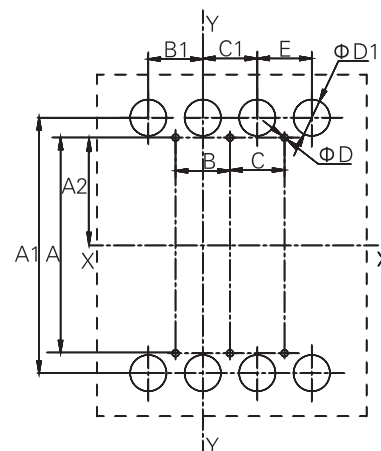


(Horizontal) dimensions of CDM3S-800 fixed type back-panel

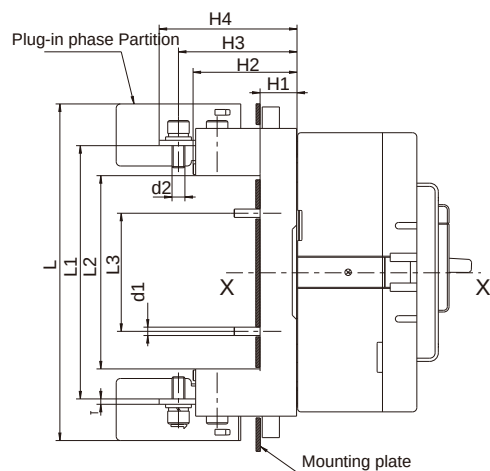
Product model CDM3S-	Dimensional location	Fixed type back H2 H3 -panel dimensions table							
		H1	H2	H3	H4	H5	ΦD	W	T
63/125	Inlet terminal	32	59	73	101	-	M8	-	-
	Outlet terminal								
125b S	Inlet terminal	33	60	75	102	-	M8	-	-
	Outlet terminal								
125bF/N	Inlet terminal	28	55	70	97	-	M8	-	-
	Outlet terminal								
160/250S/F/N/H	Inlet terminal	51	71	81	101	-	M10	-	-
	Outlet terminal								
400F/N/R	Inlet terminal	40	60	74	97	30	φ12.5	31	8
	Outlet terminal	38	58	72	95				
630F/N/R	Inlet terminal	40	60	74	97	30	φ12.5	31	8
	Outlet terminal	38	58	72	95				
630bF/N/R	Inlet terminal	52.5	75	86.5	108.5	20	φ16	35	10
	Outlet terminal	51.5	74	85.5	108.5				
800F/N/R	Inlet terminal	70.5	94.5	-	-	27	φ12.5	34	16
	Outlet terminal	66	90	-	-				

Fixed type back-panel horizontal hole dimensions

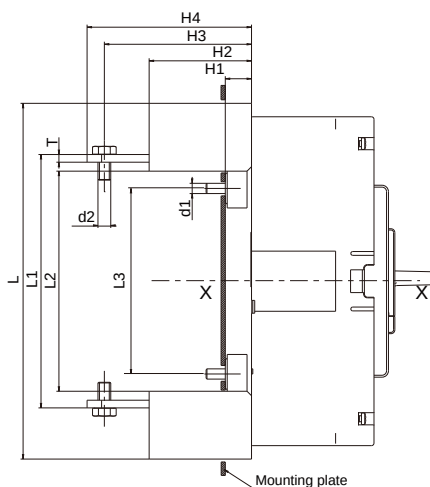
Product model CDM3S-	Number of poles	Fixed type back-panel horizontal hole dimensions table									
		A	B	C	φD	A1	A2	B1	C1	E	φD1
63/125	3	111	25	-	4.5	116	55.5	25	25	-	12
	4			25						25	
125bS/F/N	3	129	30	-	4.5	132	64.5	30	30	-	15
	4			30						30	
160/250S/F/N/H	3	126	35	-	4.8	145	63	35	35	-	15
	4			35						35	
400F/N/R	3	215	44	-	6.2	225	107.5	48	48	-	36
	4			-						48	
630bF/N/R	3	200	58	-	6.2	222	94	58	58	-	40
	4			58						58	
800F/N/R	3	243	70	-	7.2	243	121.5	70	70	-	40
	4			70						70	



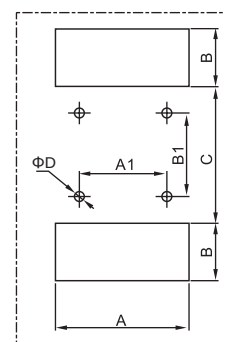
■ Plug-in type back-panel outline and installation hole dimensions (horizontal)



Integrated type (CDM3S-63~250)



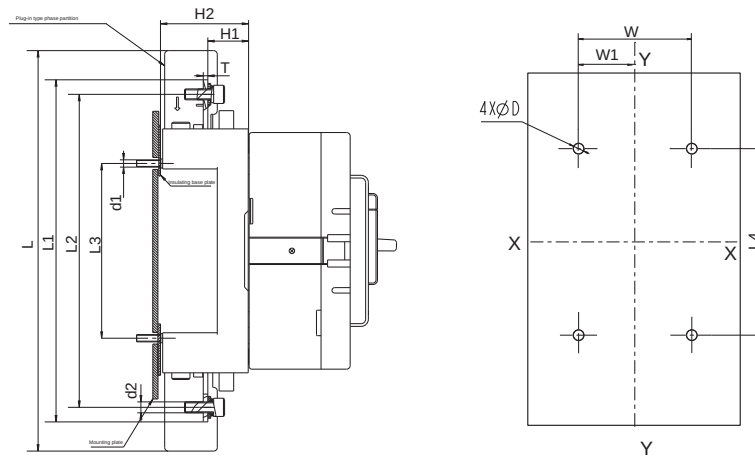
Split type (CDM3S-400~800)



Mounting hole dimensions

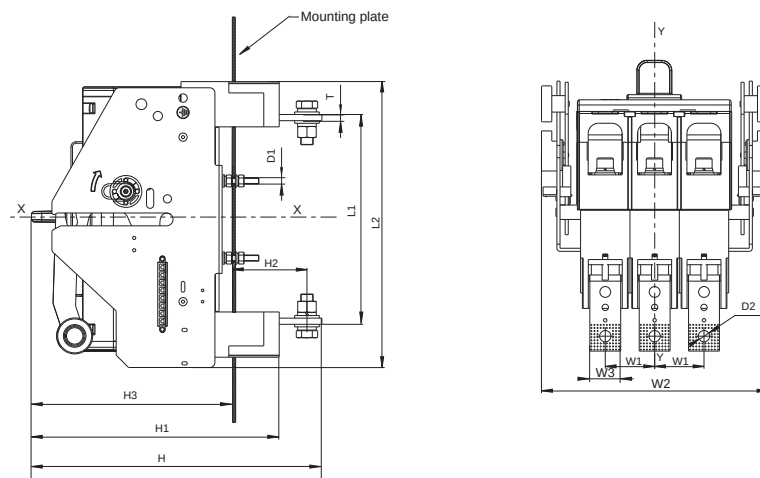
Product model CDM3S-	Number of poles	Outline dimensions for plug-in type																
		H1	H2	H3	H4	L3	L2	L1	L	T	d1	d2	A	C	B	B1	A1	φD
63/125	3P	17	47	59	67.5	55	90	117	160	3	M4	M6	79	85	27.5	55	50	5.5
	4P												104				75	
125b	3P	20	56	67	75	60	100	134	186	3	M4	M6	94	90	40	60	60	5.5
	4P												124				90	
160/250	3P	27	73.2	82	92	64	109	162	230	4	M5	M8	110	100	45	64	70	6.5
	4P												145				105	
400	3P	18.5	80	116.5	128.5	145	172	204	279	6	M8	M10	157	167	61.5	145	88	9.5
	4P												205				132	
630	3P	18.5	80	116.5	128.5	145	172	204	279	8	M8	M10	157	167	61.5	145	88	9.5
	4P												205				132	
630b	3P	20	60	89.5	113	112	157	232	285	11.5	M8	M12	185	152	64	112	100	9.5
	4P												247				159	
800	3P	19.3	62	128	145	143	188	262	295	16	M8	M12	214	185	57.5	143	140	9.5
	4P												284				210	

■ Plug-in type front-panel outline and installation hole dimensions



Product model CDM3S-	Number of poles	PlugL2 -in front L1 -panel outline dimensions mm									Mounting hole dimensions mm			
		L3	L2	L1	L	H1	H2	d1	d2	T	W	W1	L4	φD
63/125	3P	96	173	189	223	22	47.2	M3	M6	2.5	25	12.5	96	4
	4P										50			
125b	3P	110	198	214	262	26	55	M4	M6	2.5	30	15	110	5
	4P										60			
160/250	3P	150	223	244	310	38	72	M4	M8	3	35	17.5	150	5
	4P										70			

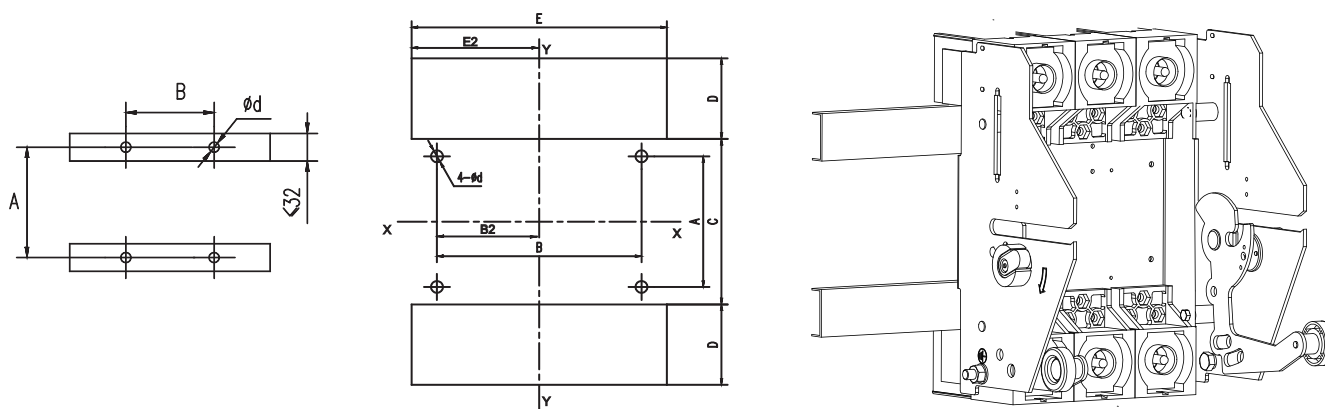
■ Pull-out type back-panel outline dimensions (horizontal)



Product model CDM3S-	Number of poles	Pull-out back-panel outline dimensions											
		H	H1	H2	H3	L1	L2	W1	W2	W3	T	D1	D2
400	3P	295	253	77	203	204	268	48	223	30	6	M6	φ11
	4P								271				
630	3P	295	253	77	203	204	268	48	223	30	8	M6	φ11
	4P								271				
630b	3P	326	282	92	204	195	282	58	253	40	10	M6	φ13
	4P								311				
800	3P	305	255	73	210	242	315	70	288	40	10	M6	φ13.5
	4P								358				



■ Pull-out type back-panel installation hole dimensions



Product model CDM3S-	Number of poles	Pull-out back-panel installation hole dimensions							
		A	B	B2	C	D	E	E2	d
400	3P	140	96	48	178	47	159	79.5	$\phi 7$
	4P		144				207		
630	3P	140	96	48	178	47	159	79.5	$\phi 7$
	4P		144				207		
630b	3P	128	116	58	163	58	189	94.5	$\phi 7$
	4P		174				247		
800	3P	131	140	70	170	77	213	106.5	$\phi 7$
	4P		210				283		

Model Table

Material code	Material description	Material code	Material description
M3S63C633300	CDM3S-63C/3300 63A	M3S400F4003300	CDM3S-400F/3300 400A
M3S63C63A300	CDM3S-63C/4300A 63A	M3S400F400A300	CDM3S-400F/4300A 400A
M3S63C63B300	CDM3S-63C/4300B 63A	M3S400F400B300	CDM3S-400F/4300B 400A
M3S63S633300	CDM3S-63S/3300 63A	M3S400N4003300	CDM3S-400N/3300 400A
M3S63S63A300	CDM3S-63S/4300A 63A	M3S400N400A300	CDM3S-400N/4300A 400A
M3S63S63B300	CDM3S-63S/4300B 63A	M3S400N400B300	CDM3S-400N/4300B 400A
M3S125BS1253300	CDM3S-125bS/3300 125A	M3S400R4003300	CDM3S-400R/3300 400A
M3S125BS125A300	CDM3S-125bS/4300A 125A	M3S630BF4003300	CDM3S-630bF/3300 400A
M3S125BS125B300	CDM3S-125bS/4300B 125A	M3S630BF400A300	CDM3S-630bF/4300A 400A
M3S125CX1253300	CDM3S-125C/3300 125A New	M3S630BF400B300	CDM3S-630bF/4300B 400A
M3S125CX125A300	CDM3S-125C/4300A 125A New	M3S630BF6303300	CDM3S-630bF/3300 630A
M3S125CX125B300	CDM3S-125C/4300B 125A New	M3S630BF630A300	CDM3S-630bF/4300A 630A
M3S125SX1253300	CDM3S-125S/3300 125A New	M3S630BF630B300	CDM3S-630bF/4300B 630A
M3S125SX125A300	CDM3S-125S/4300A 125A New	M3S630BN6303300	CDM3S-630bN/3300 630A
M3S125SX125B300	CDM3S-125S/4300B 125A New	M3S630BN630A300	CDM3S-630bN/4300A 630A
M3S125F1253300	CDM3S-125F/3300 125A	M3S630BN630B300	CDM3S-630bN/4300B 630A
M3S125F125A300	CDM3S-125F/4300A 125A	M3S630BR6303300	CDM3S-630bR/3300 630A
M3S125F125B300	CDM3S-125F/4300B 125A	M3S630F6303300	CDM3S-630F/3300 630A
M3S160F1603300	CDM3S-160F/3300 160A	M3S630F630A300	CDM3S-630F/4300A 630A
M3S160F160A300	CDM3S-160F/4300A 160A	M3S630F630B300	CDM3S-630F/4300B 630A
M3S160F160B300	CDM3S-160F/4300B 160A	M3S630N6303300	CDM3S-630N/3300 630A
M3S160N1603300	CDM3S-160N/3300 160A	M3S630N6304300A	CDM3S-630N/4300A 630A
M3S160S1603300	CDM3S-160S/3300 160A	M3S630N6304300B	CDM3S-630N/4300B 630A
M3S160S160A300	CDM3S-160S/4300A 160A	M3S630R6303300	CDM3S-630R/3300 630A
M3S160S160B300	CDM3S-160S/4300B 160A	M3S800F8003300	CDM3S-800F/3300 800A
M3S250F2503300	CDM3S-250F/3300 250A	M3S800F800A300	CDM3S-800F/4300A 800A
M3S250F250A300	CDM3S-250F/4300A 250A	M3S800F800B300	CDM3S-800F/4300B 800A
M3S250F250B300	CDM3S-250F/4300B 250A	M3S800N8003300	CDM3S-800N/3300 800A
M3S250N2503300	CDM3S-250N/3300 250A	M3S800N800A300	CDM3S-800N/4300A 800A
M3S250N250A300	CDM3S-250N/4300A 250A	M3S800R8003300	CDM3S-800R/3300 800A
M3S250N250B300	CDM3S-250N/4300B 250A	M3S12XF12503300	CDM3S-1250F/3300 1250A
M3S250S2503300	CDM3S-250S/3300 250A	M3S12XF1250A300	CDM3S-1250F/4300A 1250A
M3S250S250A300	CDM3S-250S/4300A 250A	M3S12XF1250B300	CDM3S-1250F/4300B 1250A
M3S250S250B300	CDM3S-250S/4300B 250A	M3S12XN12503300	CDM3S-1250N/3300 1250A
M3S400F2503300	CDM3S-400F/3300 250A	M3S16XF16003300	CDM3S-1600F/3300 1600A
M3S400F250A300	CDM3S-400F/4300A 250A	M3S16XN16003300	CDM3S-1600N/3300 1600A
M3S400F250B300	CDM3S-400F/4300B 250A		

