DELIXI
ELECTRIC
德力西电气
DELIXI
ELECTRIC
德力西电气
领航者系列
NAVIGATOR
天生好表现
形好 价好 质更好

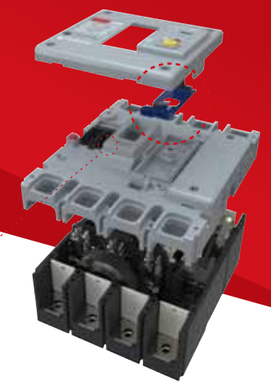
CDM3S塑壳断路器

The CDM3S series products are a new generation of products that inherit the classic technology platform and are newly created, including CDM3S thermal magnetic molded case circuit breaker, CDM3LS residual current action circuit breaker and CDM3G isolating switch.

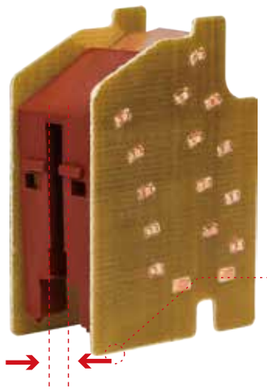
The new series of products fully cover frame currents from 63 to 1600A, with stronger structural design and more diverse accessories. The innovative thermal magnetic molded case circuit breaker communication function improves wiring capabilities and creates higher cost performance and reliability for customers. products to meet the application needs of various customers.

Structural design, stronger

The reinforced rib design of the 160-degree shell frame is stronger and can withstand a load of more than 2000N.



CDM3LS electronic circuit board innovative closed design, stronger protection capability



Patented arc extinguishing chamber design and narrow gap arc extinguishing technology, safe and reliable

Interconnected and smarter

Innovative thermal magnetic circuit breaker, communication function, simpler and more economical

Accessory specifications more complete

7 electrical accessories, supporting dual-cavity installation

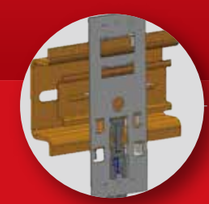
5 operating accessories

4 types of installation accessories

7 other accessories

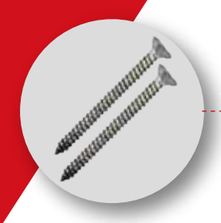
Installation and wiring are more convenient

The terminal opening size is increased by up to 20% to improve wiring capabilities . All series are equipped with hexagon socket screws for greater wiring torque and tighter connection.



63/100 shell frame adds guide rail installation method

New protruding countertop design, optimized panel structure supports installation of large and small panels



250 and below frame supports self-tapping screw installation

Product description

Product introduction

CDM 3S series plastic case circuit breaker (hereinafter referred to as: CDM 3S), in low-voltage distribution lines, can connect, carry and break current under normal circuit conditions, and can also connect and carry a certain amount of current under specified abnormal circuits. A mechanical switch that time and breaks current, providing protection to lines and equipment when overload, short circuit, or undervoltage occur on distribution lines (accessory function). It is widely used in low-voltage power consumption places such as electric power, construction, industry, and OEM.

- Frame grade: 63AF、125AF、160AF、250AF、400AF、630AF、800AF、1250AF、1600AF
- Rated working voltage Ue: 400/415V,500V,690V
- Breaking capacity: covers common breaking in the power distribution field: 25kA、35kA、50KA、70KA
  75KA(See the parameter table for details of the specific divisions of each shell frame)
- Number of poles: including 2-pole, 3-pole and 4-pole products
- Release type: single magnetic type, thermal magnetic type
- Installation method: fixed, plug-in, drawer

Standards compliant

Product meets standards:

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

Extreme environment usage standards:

- 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 damp heat) GB/T 2423.2

Ambient temperature

Normal working conditions: -5~40℃ For -40℃~-5℃, 40℃~70℃, please contact us.

If the working environment temperature exceeds 40℃, please refer to the temperature derating coefficient table for use;

Storage temperature: Storage temperature: -40~70℃

(If the storage temperature is lower than normal working conditions, the product should be returned to working conditions and left to stand for at least 24 hours before being put into use)

Pollution level

The operating pollution level of CDM3S is Level 3

In the environment defined by the IEC 60947-1 and 60664-1 standards (industrial environment).

Humidity

Normal operating humidity: When the ambient air humidity is +40°C, the relative humidity of the atmosphere cannot exceed 50%;

If the temperature is lower, it can be used under higher relative humidity conditions; for example: at +20°C, up to 90 %. Special measures should be taken for condensation that occasionally occurs due to temperature changes;

Reliable contact indication with isolation function conforms to the isolation defined in IEC standard GB/T 14048.2

- The isolation position corresponds to the O (OFF) position
- Only when the contacts are truly open can the operating handle indicate the "OFF" position
- Rotating handles or electric operating mechanisms do not alter the reliability of the contact indication system

Protection level

The CDM3S body complies with IP protection level: IP30 (except wiring terminals)

CDM3S circuit breaker installed in switch cabinet:
circuit breaker with toggle handle: IP40
Circuit breaker with rotary handle: IP40
Circuit breaker with electric operating mechanism: IP40

Altitude

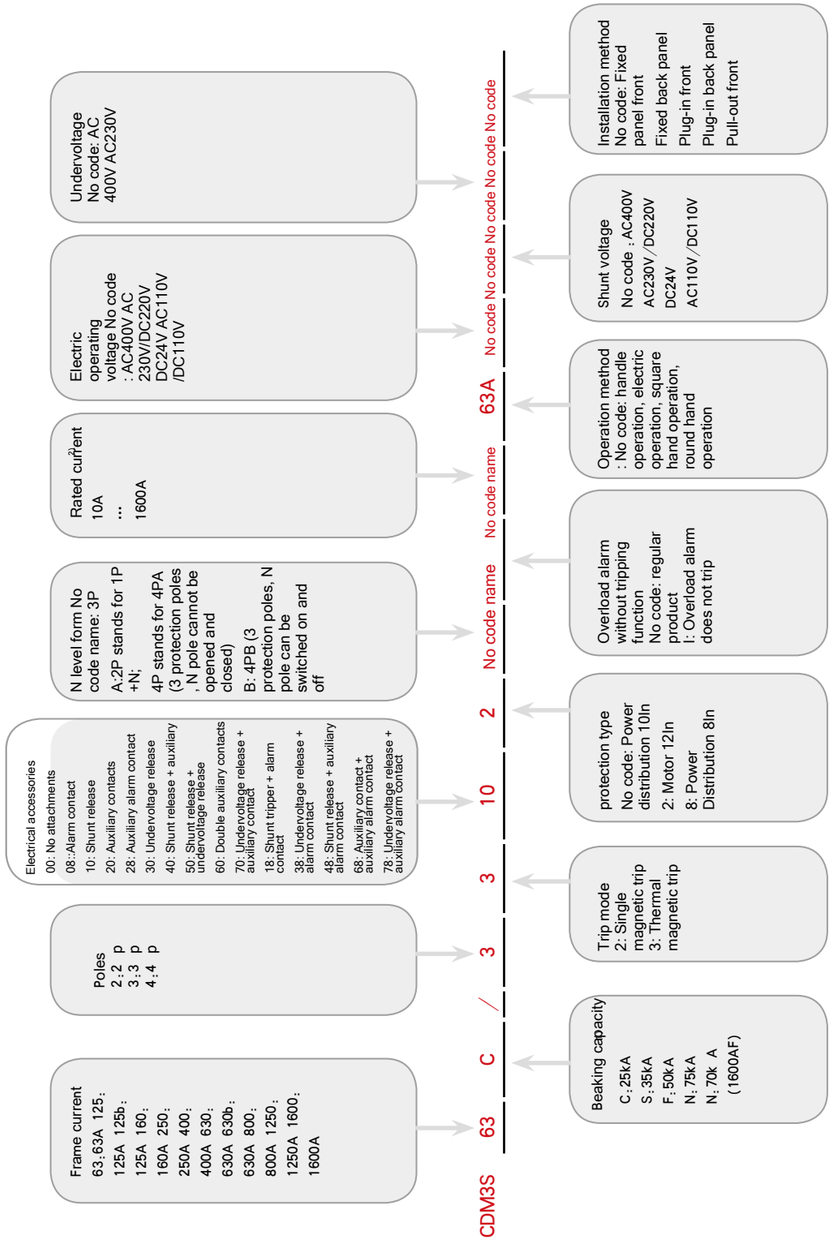
Normal working altitude: ≤2000m

If it needs to be installed at an altitude of more than 2000m, the change in dielectric strength and the drop in air temperature must be taken into consideration.

Please refer to the altitude derating coefficient table for use, or please contact us

Product model

Item Description



Remarks: 1: Please refer to the technical parameter page for the corresponding breaking capacity of each frame.

2: Please refer to the technical parameter page for details of the rated current corresponding to each frame.

Technical Parameters

Frame current		CDM3S–63			CDM3S–125			CDM3S–125b			CDM3S–160			
Rated working voltage Ue（V）50/60Hz		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		100/125/140/160			
Rated insulation voltage Ui（V）		800			800			800			800			
Rated impulse withstand voltage Uimp（kV）		8			8			8			8			
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
Ultimate 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	–
Operational 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)	Machinery is maintained	40000			40000			40000			40000			
	Mechanical maintenance-free	20000			20000			20000			20000			
Electrical life (times)	AC 415V	10000			10000			10000			10000			
Protection type	Power distribution protection (8/10In) (2P without 8In)	■ Products below 40A are rated as 400A			■ Products below 40A are rated as 400A			■ Products below 40A are rated as 400A			■			
	Motor starting protection (12In) (2P None)	■ Products below 40A are rated as 400A			■ Products below 40A are rated as 400A			■ Products below 40A are rated as 400A			■			
Trip mode	Thermal magnetic trip	■			■			■			■			
	Single magnetic trip	■			■			■			■			
Wiring	Fixed front panel wiring	■			■			■			■			
	Fixed rear panel wiring (2P not available)	■			■			■			■			
	Plug-in rear panel wiring (2P not available)	■			■			■			■			
	Plug-in rear panel wiring (2P not available)	■			■			■			■			
	Pull-out rear panel wiring (2P not available)	–			–			–			–			
Installation method	Screw/nut installation (8-12mm) (standard)	■			■			■			■			
	Self-tapping screw installation (optional)	■			■			■			■			
	Guide rail installation (TH35) (optional)	■			■			–			–			
Product accessories (optional)	Undervoltage release	■			■			■			■			
	Shunt tripper	■			■			■			■			
	Alarm contact	■			■			■			■			
	Auxiliary alarm contact	■			■			■			■			
	Auxiliary contacts	■			■			■			■			
	Electric operating mechanism CD2 (not available on 2P)	■			■			■			■			
	Manual operation (not available on 2P)	■			–			■			■			
	Extended handle (not available on 2P)	–			■			–			■			
Product accessories (standard product)	Interphase partition board (standard configuration)	■			■			■			■			
Derived function: overload alarm, no tripping (2P not available)		–			–			–	■	■	–	■	■	
Isolation function		■			■			■			■			
Selective categories		A type			A type			A type			A type			
Certification		CCC/CE			CCC/CE			CCC/CE			CCC/CE			
Dimension（mm）	Width（2P3P4P）	56/75/100	77/102		56/75/100	77/102		92/122	92/122		79/107/142	107/142		
	Heigh	132	132		132	132		150	150		165	165		
	Long	66	78.5		68（2P）/66	78.5		75	93		77	94		

Frame current		CDM3S–250			CDM3S–400			CDM3S–630			CDM3S–630b			CDM3S–800			CDM3S–1250		CDM3S–1600	
Rated working voltage Ue（V）50/60Hz		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	
Rated current In（A）		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	
Rated insulation voltage Ui（V）		800			800			800			800			1000			1000		1000	
Rated impulse withstand voltage Uimp（kV）		8			8			8			8			12			12		12	
Poles（1P+N，2P，3P，4PA，4PB）		2/3/4	3/4	3	3/4		3	3/4		3	3/4		3	3/4		3	3/4		3	
Short circuit breaking capacity level		S	F	N	H	F	N	R	F	N	R	F	N	R	F	N	R	F	N	F	N
Ultimate breaking capacity Icu（KA）	AC 230/240V（1P+N，2P）	50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	AC 400/415V（2P/3P/4P）	35	50	75	85	50	75	100	50	75	100	50	75	100	50	75	100	50	70	50	70
	AC 500V（3P/4P）	8	8	8	–	10	10	–	–	10	–	10	10	–	10	10	–	15	15	30	30
	AC 690V（3P/4P）	8	8	8	–	10	10	–	–	10	–	10	10	–	10	10	–	15	15	30	30
Operational breaking capacity Ics（KA）	AC 230/240V（1P+N，2P）	35	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	AC 400/415V（2P/3P/4P）	21	36	50	65	36	50	75	36	50	75	36	50	75	36	50	75	36	50	36	50
	AC 500V（3P/4P）	4	8	8	–	5	10	–	–	10	–	10	10	–	10	10	–	15	15	20	20
	AC 690V（3P/4P）	4	8	8	–	5	10	–	–	10	–	10	10	–	10	10	–	15	15	20	20
Mechanical life (times)	Machinery is maintained	40000			20000			20000			10000			10000			10000		10000	
	Mechanical maintenance-free	20000			10000			10000			8000			8000			5000		5000	
Electrical life (times)	AC 415V	10000			8000			8000			5000			5000			2500		2500	
Protection type	Power distribution protection (8/10In) (2P without 8In)	■			■			■			■			■			■		■	
	Motor starting protection (12In) (2P None)	■			■			■			■			–			■		–	
Trip mode	Thermal magnetic trip	■			■			■			■			■			■		■	
	Single magnetic trip	■			■			■			■			■			■		■	
Wiring	Fixed front panel wiring	■			■			■			■			■			■		■	
	Fixed rear panel wiring (2P not available)	■			■			■			■			■			–		–	
	Plug-in rear panel wiring (2P not available)	■			–			–			–			–			–		–	
	Plug-in rear panel wiring (2P not available)	■			■			■			■			■			–		–	
	Pull-out rear panel wiring (2P not available)	–			■			■			■			■			–		–	
Installation method	Screw/nut installation (8-12mm) (standard)	■			■			■			■			■			■		■	
	Self-tapping screw installation (optional)	■			–			–			–			–			–		–	
	Guide rail installation (TH35) (optional)	–			–			–			–			–			–		–	
Product accessories (optional)	Undervoltage release	■			■			■			■			■			■		■	
	Shunt tripper	■			■			■			■			■			■		■	
	Alarm contact	■			■			■			■			■			■		■	
	Auxiliary alarm contact	■			■			■			■			■			■		■	
	Auxiliary contacts	■			■			■			■			■			■		■	
	Electric operating mechanism CD2 (not available on 2P)	■			■			■			■			■			■		■	
	Manual operation (not available on 2P)	■			■			■			■			■			■		■	
	Extended handle (not available on 2P)	■			■			■ Standard			■ Standard			■ Standard			■ Standard		■ Standard	
Product accessories (standard product)	Interphase partition board (standard configuration)	■			■			■			■			■			■		■	
Derived function: overload alarm, no tripping (2P not available)		–	■	■	■			–			■			–			–		–	
Isolation function		■			■			■			■			■			■		■	
Selective categories		A type			A type			A type			A type			A type			A type		A type	
Certification		CCC/CE			CCC/CE			CCC/CE			CCC/CE			CCC/CE			ccc		CCC	
Dimension（mm）	Width（2P3P4P）	79/107/142	107/142		150/198			150/198			182/240			210/280			210/280		223	
	Heigh	165	165		257			257			257			280			275.5		408	
	Long	77	94		108			108			110			118.5			103		149	

Note: * 4PA: The N pole is not equipped with an overcurrent tripping component. The N pole is always connected and does not close and open together with the other three poles.
4PB: The N pole is not equipped with an overcurrent tripping component. The N pole starts to be closed together with the other three poles. Divide (N poles are combined first and then divided)

Derating factor table

Altitudes below 2000 meters have no effect on circuit breaker performance. Beyond this 2000m, the reduction in air insulation properties and cooling capacity must be considered; corrections must be made according to the coefficients given in the table below.

Altitude (m)	2000	2500	3000	3500	4000	4500	5000
Insulation voltage Ui (V)	800	728	728	664	664	616	616
Impulse withstand voltage Uimp (kV)	8	7	7	6.5	6.5	6	6
Maximum operating voltage Ue (V)	690	690	690	660	600	600	550
Power frequency withstand voltage (V)	2000	1820	1820	1660	1660	1540	1540
Rated operating current value In (A) in 40℃ environment	1In	0.98In	0.94In	0.92In	0.88In	0.86In	0.85In

Temperature derating coefficient table

The environmental operating temperature of the product is: -5℃~40℃. When the temperature exceeds 40℃, the high temperature will have an impact on the performance of the release, and the overload protection will undergo a small change. In the time/current curve of the release, The Ir setting value of the circuit breaker must be corrected according to the following coefficients. If used between -40℃ ~-25℃, please contact us.

Name	Circuit breaker model	Ambient temperature℃														
		−40℃	−35℃	−30℃	−25℃	−20℃	−15℃	−10℃	−5℃	0℃	40℃	45℃	50℃	55℃	60℃	70℃
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	9.93	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	—	—	—

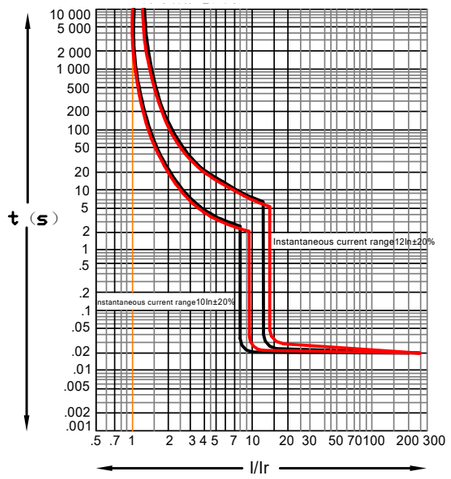
* Note that the correction coefficient is an expression of the action value and does not mean that the product can be used for upflow.

Trip curve diagram

CDM3S —63AF

CDM3S-63AF 40A-63AThe black wire is power distribution protection, and the red wire is motor starting protection;

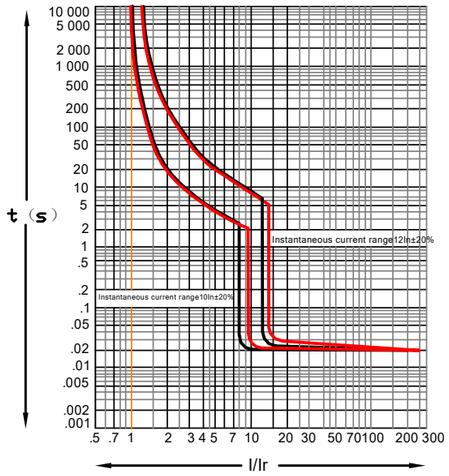
10A-32AInstantaneous operating current is 400A±20%



CDM3S-63F、125AF

CDM3S-63F、125AF 10~125AThe black wire is power distribution protection, and the red wire is motor starting protection;

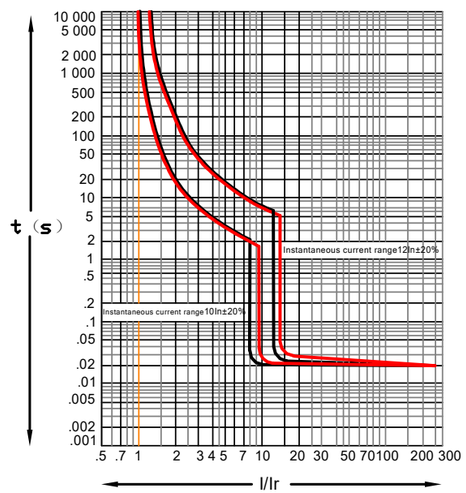
10~32AInstantaneous operating current is 400A±20%



CDM3S—125bAF

CDM3S—125bAF 40A—100AThe black wire is power distribution protection, and the red wire is motor starting protection;

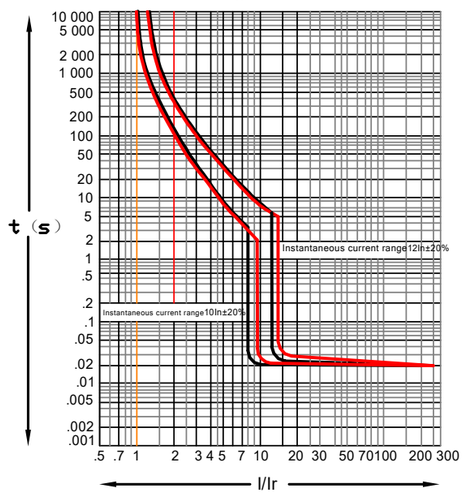
16A—32AInstantaneous operating current is 400A±20%



CDM3S—160/250AF

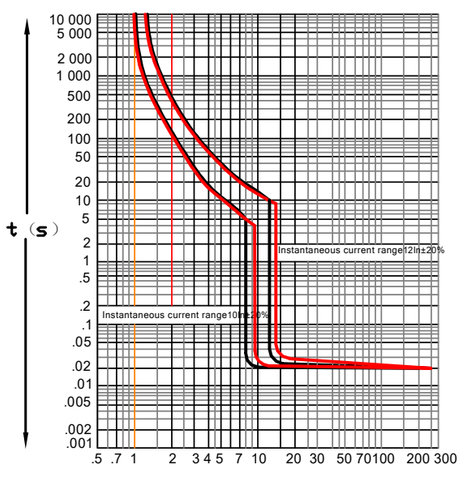
CDM3S—160AF 100A—160AThe black wire is power distribution protection, and the red wire is motor starting protection;

CDM3S—250AF 100A—250AThe black wire is power distribution protection, and the red wire is motor starting protection;



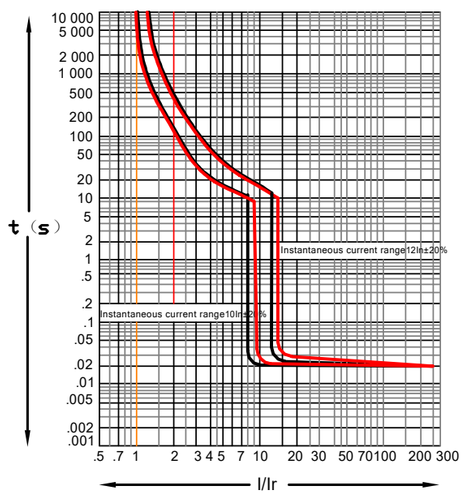
CDM3S—400AF

CDM3S—400AF 250A—400A
The black wire is power distribution protection,
and the red wire is motor starting protection;



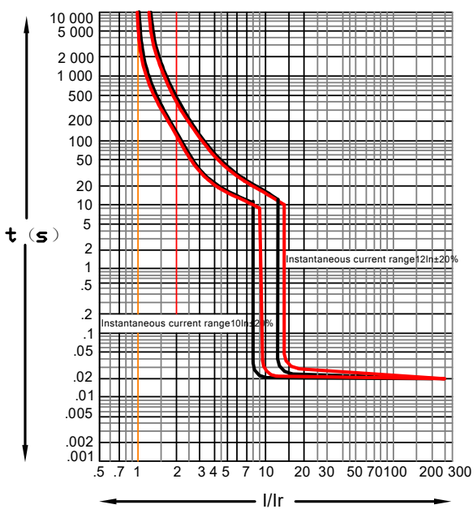
CDM3S—630AF

CDM3S—630AF 400A—630A
The black wire is power distribution protection,
and the red wire is motor starting protection;



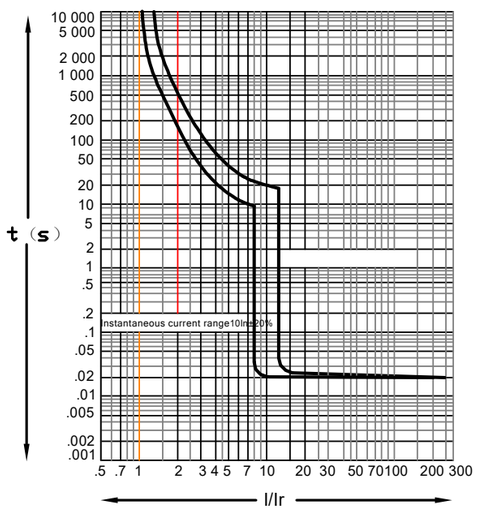
CDM3S—630bAF

CDM3S—630bAF 400A—630A
The black wire is power distribution protection,
and the red wire is motor starting protection;

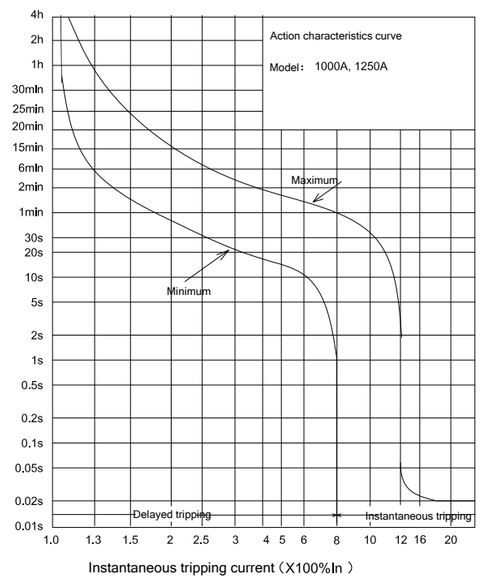


CDM3S—800AF

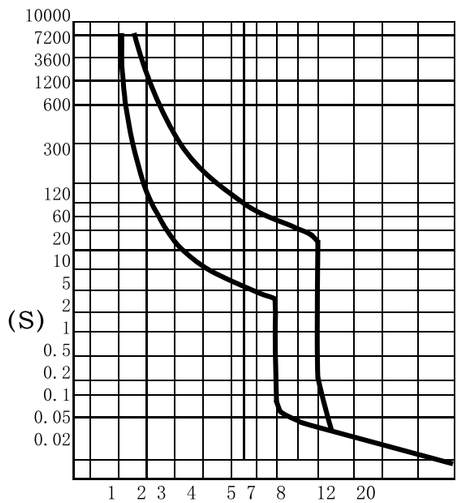
CDM3S—800AF 630A—800A
The black wire is power distribution protection



CDM3S—1250AF



CDM3S —1600AF



Product accessories

- Electrical accessories: shunt release, undervoltage release, auxiliary contacts, alarm contacts, auxiliary alarm integrated module.
- Installation accessories: fixed plate rear mounting accessories, plug-in mounting accessories, pull-out mounting accessories
- Operating accessories: hand operating mechanism, electric operating mechanism, handle lock, extended handle
- Other accessories: zero flashover cover, cable connector, dust cover, phase partition, expansion terminal

Accessory selection

Electrical accessories

CDM3S	Frame current	Installation location	Accessory name	Voltage form (shunt/undervoltage)	Form
	63/125 125b 160/250 400/630 630b 800 1250 1600	Left Right	Shunt tripper Alarmcontact Undervoltage release Auxiliary contacts Double auxiliary contacts Auxiliary alarm contact	AC230 AC400V DC24V DC110V/AC110V DC220V	lead 0.5m (default) lead 1m lead1.5m lead 2m terminal

Note: Except for undervoltage, the electrical accessories are in the form of lead wire 0.5m, optional 1m, 1.5m, 2m;

The default form of undervoltage is terminal shunt voltage type: AC400V, AC230V/DC220V, DC24V, DC110V/AC110V Undervoltage voltage type: AC400V, AC230V (only supports left side installation)

Operating accessories

CDM3S	Frame current	Accessory name	Voltage Form
	63/125 125b 160/250 400/630 630b 800 1250 1600	Electric exercise square hand exercise round hand exercise Extended Square Manipulation Extended circular manipulation Extended circular manipulation	AC230V/DC220V AC400V DC24V DC110V/AC110V

Other attachments

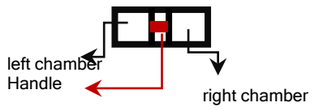
CDM3S	Frame current	Accessory name	Voltage Form
	63/125* 125b 160/250 400/630 630b 800 1250 1600	Extension terminal Interphase partitions dividing line column handle position lock Terminal cover	3P 4P

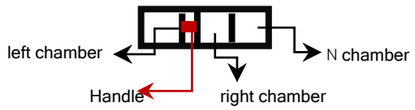
Remarks: 125C/S/F breakers currently do not have handle position locks. Accessories are under development, so stay tuned.

Electrical accessories code and installation location

□ Alarm contact ■ Auxiliary contacts ● Shunt release ○ Undervoltage release

Installation form instructions





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

Remarks:

1 CDM3S-63C/125C/160S/250S-2P product can only install one accessory on the right cavity. Optional accessories: alarm, shunt, auxiliary, auxiliary alarm, undervoltage.

2 The default assembly method of auxiliary, alarm, shunt, double auxiliary and auxiliary alarm is lead wire (0.5m), optional terminals.

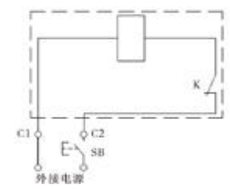
3 Default lead length of electrical accessories: 0.5m 4 The undervoltage assembly method is terminal.

Shunt release

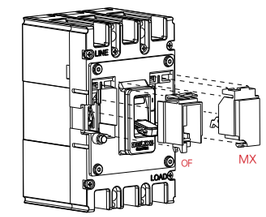
- Function: The shunt release is an accessory for remote control of the opening;

When the rated control power supply voltage is between 70% and 110%, the shunt release should reliably trip the circuit breaker; after the circuit breaker is tripped by the shunt release, it needs to be reset on site.

- Shunt wiring diagram



- MX installation diagram



- MX shunt tripper

Note: The inside of the dotted line is the wiring diagram of the internal accessories of the circuit breaker.

Electrical characteristics

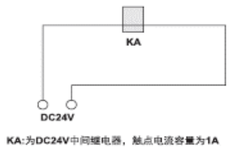
Model CDM3S–	Installation location	Minimum operating power of shunt coil (W)		
		AC400V	AC230V	DC24
63/125	left and right chambers -	155	150	96
125b	left and right chambers -	120	75	115
160/250(2P)	left and right chambers -	155	150	96
160/250(3P/4P)	left chamber -	135	165	109
	right chamber -	85	75	90
400/630/800	left and right chambers -	101	60	98
1250	left and right chambers -	101	60	98
1600	left chamber -	175	130	80

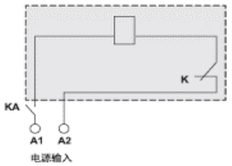
*Note: When the rated control power supply voltage is DC24V, there are two solutions:

1：The maximum length of copper conductors must meet the following requirements:

Wire area / Rated control power supply voltage Uc (DC24V)	1.5mm²	2.5mm²
100%Uc	150m	250m
80%Uc	100m	160m

2: If the requirements in the above table are not met, it is recommended to use the following wiring method for shunt release control circuit design:



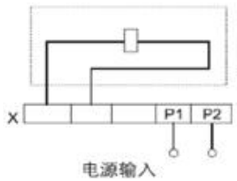


Undervoltage release

- Function: realize the under-voltage protection function of the circuit breaker, disconnect the circuit breaker when the power supply voltage is too low, and protect the electrical equipment;

At 35%-70% of the rated operating voltage, the undervoltage release should reliably trip the circuit breaker;
When the rated operating voltage is 80%-110%, the undervoltage release should ensure that the circuit breaker can be closed;
When the rated operating voltage is lower than 35%, the undervoltage release should prevent the circuit breaker from closing;

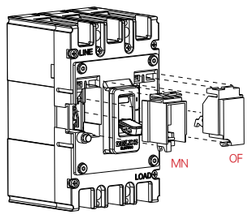
- Undervoltage wiring diagram



Description: X-terminal block

Note: The inside of the dotted line is the wiring diagram of the internal accessories of the circuit breaker

- Undervoltage release installation diagram



- MN undervoltage release

Electrical characteristics

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

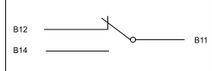
Alarm contact

- Function: Accessory used to indicate whether the circuit breaker is in non-trip (ON or OFF) or trip (Trip) state.

When the alarm contact indicates that the circuit breaker is in Trp (trip) state, there are following possibilities:

1. Overload or short circuit fault
2. Manual test button tripping
3. Shunt release action
4. Line fault, undervoltage tripping device action

Electrical wiring diagram

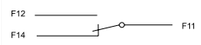
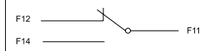
Accessory name	(ON) / (OFF)	(Trip)
Alarm contact		

Alarm contact electrical parameters			
Agreed heating current (A)		3A	
Usage categories GB14048.5-1		AC15	DC13
Operating Voltage 50/60 HZ	AC400V	0.3A	–
	DC220V	–	0.15A

Auxiliary contacts

- Function: Connected to the auxiliary circuit of switching equipment, used to indicate whether the circuit breaker is energized (ON) or not energized (OFF or Trip)

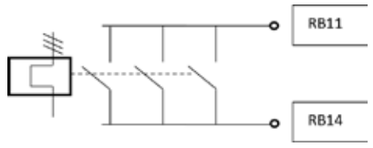
Electrical wiring diagram

Accessory name	(ON)	(OFF) / (Trip)
Auxiliary contacts		

Alarm contact electrical parameters:			
Agreed heating current (A)		3A	
Usage category GB14048.5-1		AC15	DC13
Working voltage 50/60 HZ	AC400V	0.3A	–
	DC220V	–	0.15A

Overload alarm does not trip

- The product uses a set of normally open contacts. When an overload fault occurs on any phase of the product, the product will give an alarm signal within a certain delay time range.



Wiring schematic diagram

Electrical parameters

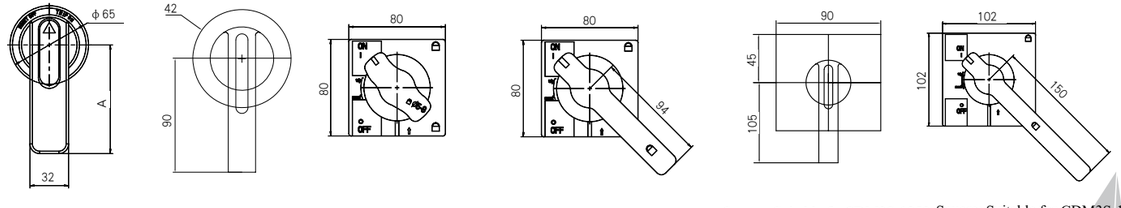
Rated working voltage	Working current
AC250V	0.5A
DC230V	0.5A

1. Products with this function do not have overload protection.
2. After the overload fault disappears, the product will continue to maintain the alarm state for a period of time due to thermal effects.
3. The product defaults to a lead structure, and the default wire length is approximately 220mm.

Manual operating mechanism

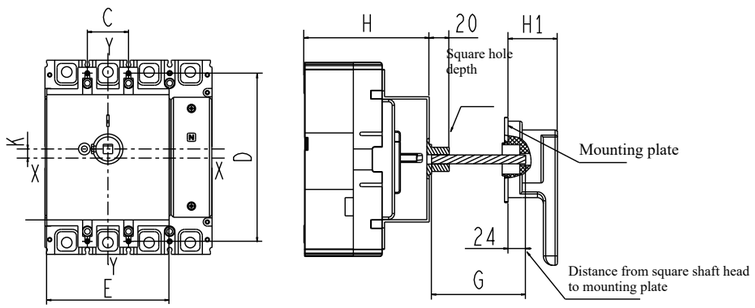
- The circuit breaker is operated by rotating the handle. The ergonomically designed rotating handle makes the operation of the circuit breaker more flexible.
- There are two forms of rotary handle operating mechanisms:Direct rotation manual operation (round manual operation, square manual operation) Extended and rotated manual exercises (circular extended manual exercises, square extended manual exercises)
- User visual information, settings
  3 position indications: open (OFF), close (ON), trip (TRIP)
  When the door is open, the circuit breaker cannot be closed, and when it is closed, the door cannot be opened.
  The shaft length of the extension handle can be customized according to the distance from the back of the circuit breaker to the door

Direct manual size



Round: Suitable forCDM3S-63~800 Square: Suitable forCDM3S-63~250 Square: Suitable for DM3S-400~800 Square: Suitable forCDM3S-1250 Square: Suitable for CDM3S-1600

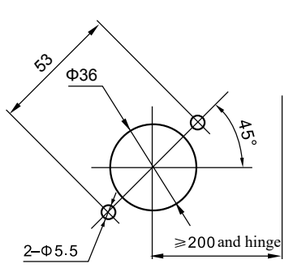
Installation dimensions of manual operating mechanism



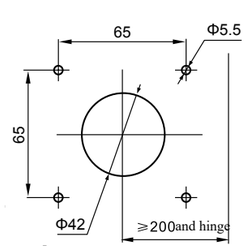
Model CDM3S–	A*	C	D	E	H	G * Direct manual operating mechanism	G* Extended manual operating mechanism (default)	round handle height H1	Square handle height H1	Base center and manual center offset K
63/125C 125S	65	25	111	75	110	40	150	48	48	0
63F、125F	65	25	111	75	122.5	40	150	48	48	0
125bS	65	30	129	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	–

Note: 1A*: 63-250 optional 95mm, 400-800 optional 125mm
2.G*: If you need other lengths and sizes, please contact the manufacturer for customization.
3. The manual operation of CDMM3S-400/630/630b is not centered. Please pay attention to the K value when opening holes.

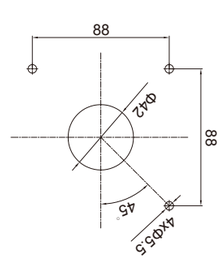
Cabinet door installation opening size



Round handle cabinet door opening
CDM3S-63~1250



Square handle cabinet door opening
CDM3S-63~1250



Square handle cabinet door opening
CDM3S-1600

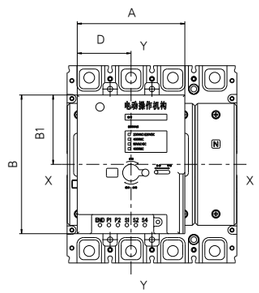
■ Electric operating mechanism

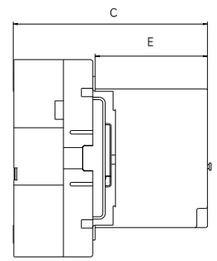
- Function: Suitable for long-distance electric closing, opening and re-closing of circuit breakers and automatic control occasions;Rated voltage of electric operating mechanism: AC 400V; AC230V/DC220V; AC110V/DC110V; DC24V;Operating voltage range of electric operating mechanism: 80%-110%Ue
- Electric operating voltage and tolerance range

  63A-250A: The operation frequency is no more than 180 times per hour, and the action time is ≤0.7s

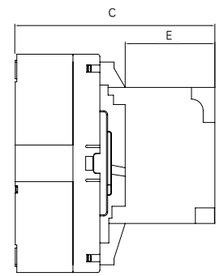
  400A-1600A: The operation frequency is no more than 60 times per hour, and the action time is ≤1s
- After a circuit breaker with an electric operating mechanism trips, the electric operating mechanism must first open and then close.

Electric operation size





CDM3S–63~630/1600



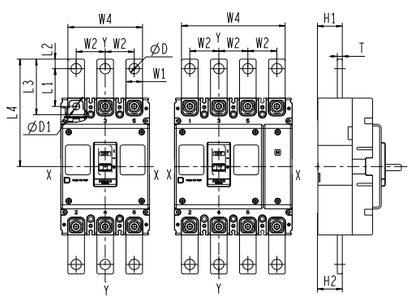
CDM3S–800/1250

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

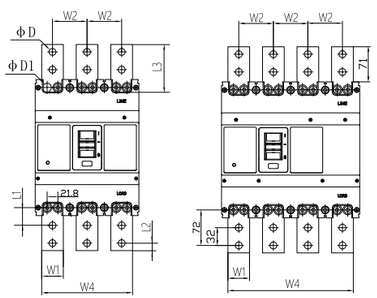
■ Extension terminal

The extension terminals are connected to the standard terminals of the circuit breaker, thus providing a variety of wiring options in a small space: Busbar, the extension terminal can be connected to the incoming or outgoing side of the circuit breaker.

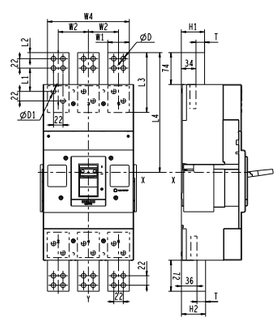
Straight expansion terminal size



Straight extension row suitable for CDM3S-63~800



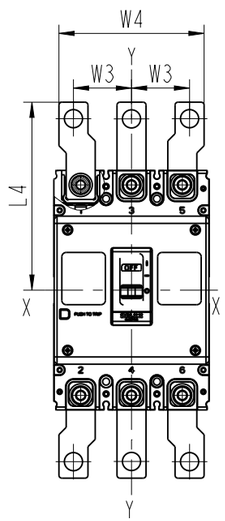
Straight extension row suitable for CDM3S-1250

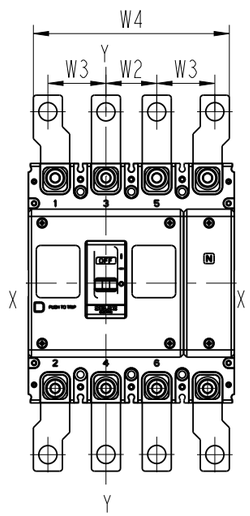


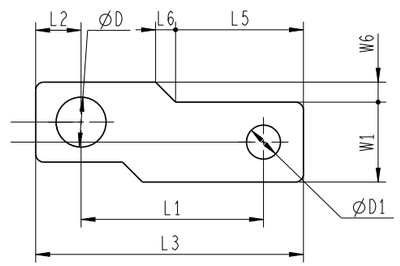
Straight extension row suitable for CDM3S-1600

Model CDM3S—	Poles	Expanded vertical corresponding size											
		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)								54	56	20		

Left and right expansion terminal dimensions







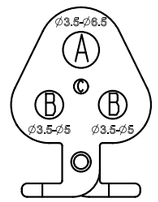
Left and right expansion terminal dimensions

Model CDM3S—	Poles	Alternate left and right extension rows corresponding sizes															
		L1	L2	L3	L4	L5	L6	W1	W2	W3	W4	W5	W6	H1	H2	T	ϕD1	ϕD
63/125	3P	24.5	8	40	90.5	20	5	16	25	30	76	5	5	26.5	26.5	3	8	8
	4P										101							
125 bS	3P	24.5	8	40	98.5	20	5	16	30	35	86	5	5	27	26.5	3	8	8
	4P										116							
125b F/N	3P	24.5	8	40	98.5	20	5	16	30	35	86	5	5	31.5	31	3	8	8
	4P										116							
160/250S	3P	45.5	11.5	67	129.5	32	5	20	35	40	100	5	5	30	30	6	8.5	12.5
	4P										135							
160/250F/N/H	3P	45.5	11.5	67	129.5	32	5	20	35	40	100	5	5	29	29	6	8.5	12.5
	4P										135							
400F/N/R	3P	42.5	16.2	70	171.2	34	10	29.5	48	58.5	146.5	10.5	10.5	44.5	44.5	8	10.5	12.5
	4P										194.5							
630F/N/R	3P	42.5	16	70	171	26	18	30	48	58.5	147	10.5	10.5	48.5	48.5	12	10.5	12.5
	4P										195							
630bF/N/R	3P	86	20	120	217	40	10	40	58	68	176	10	10	49.5	49.5	10	13	13
	4P										234							

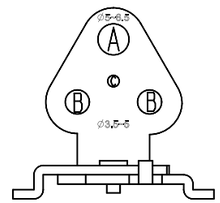
Handle position lock

Model CDM3S–	A hole adaptation Padlock diameter	B hole adaptation Padlock diameter	C hole lead seal diameter	Circuit breaker Handle lock position
63/125 125b 160/250	φ3.5～6.5	φ3.5～5	φ2.6	Opening position (re-buckle) Closing position
400/630 630b 800	φ5～6.5	φ3.5～5	φ2.6	Opening position (re-buckle)

Note: The padlock needs to be prepared by the user



CDM3S–63~250



CDM3S–400~800

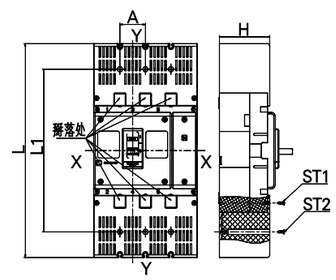
Terminal cover

Terminal covers can be used to prevent accidents caused by accidental contact during use of the circuit breaker to ensure safety. There are long terminal covers (P30 after installation), short terminal covers and zero flashover covers for customers to choose from.

Long terminal cover dimensions

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	–	–

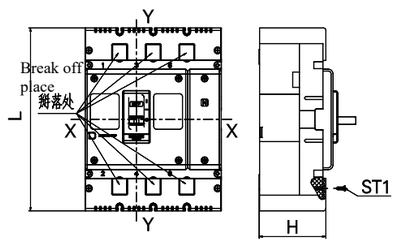
Note: There is no need to use the screws in the 125C and 125S terminal accessories. CDM3S-1250 installs the long terminal cover.
No screws are required to fix it. It is fixed on the switch middle cover by buckles.



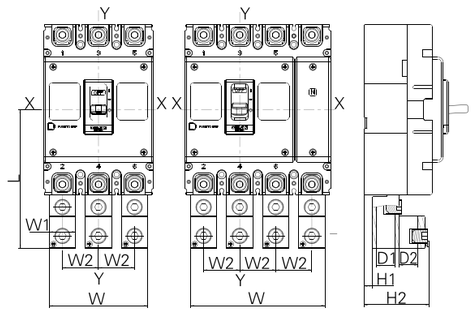
Short Terminal Cover & Zero Flashover Cover Dimensions

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

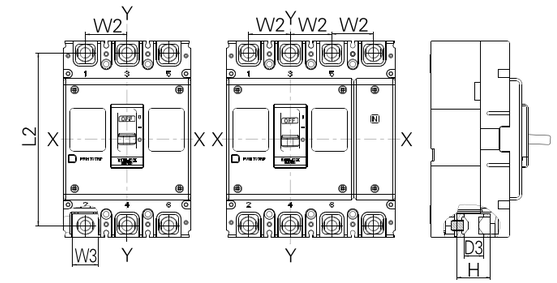
Note: The screws in the 125C and 125S terminal accessories are not required



Dividing line column



External

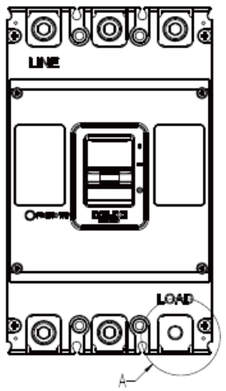


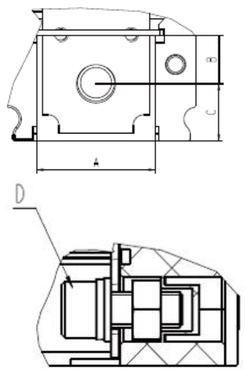
Built-in

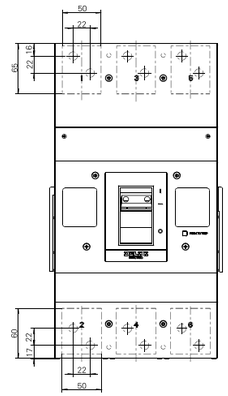
Model CDM3S–	Poles	Installation dimensions											
		L	L2	W1	W2	W3	W	H1	H2	H	D1	D2	D3
63/125	3P 4P	97.5	116	16.6	25	17	66.6 91.6	20	46.5	15.8	φ8.5	φ8.5	φ10.5
125b s	3P 4P	118	132	17	30	17	77 107	17	59	22	φ12	φ12	φ12
125b F/N	3P 4P	118	132	17	30	17	77 107	21.5	63.5	22	φ12	φ12	φ12
160 S	3P 4P	134.5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

Dimensions

Terminal board mounting hole diagram







1600 Wiring size

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 wiring capacity

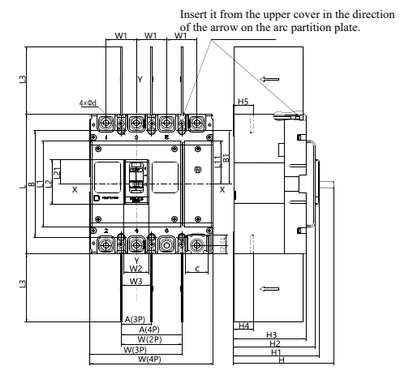
Rated current (A)	10	16 20	25	32	40 50	63	80	100	125 140	160	180 200 225	250	315 350	400
Recommended copper conductor cross-sectional area (mm^2)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	185	240

Rated current (A)	500	630	700 800	1000	1250	1600
Recommended copper conductor cross-sectional area (mm^2)	150×2	185×2	240×2	–	–	–
Recommended copper conductor cross-sectional area (mm^2)	150×2	200×2	250×2	300×2	400×2	500×2

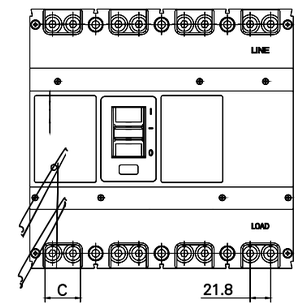
Note: Please pay attention to the CDM3S series appearance, installation and wiring dimensions C, C1, C2, and the corresponding wiring screw diameter, and select the appropriate terminal block or busbar to meet the corresponding wiring capacity requirements.

Fixed plate front dimensions

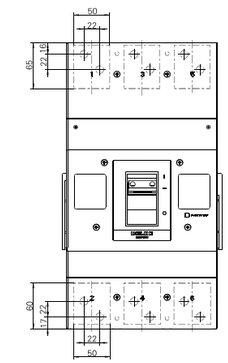
X-X: is the central axis of the base, the same below
Y-Y: is the central axis of the handle, the same below



CDM3S-1250 Wiring size diagram



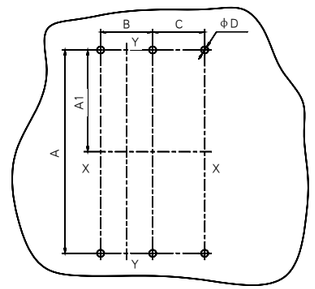
CDM3S–1600AF Dimensional wiring diagram



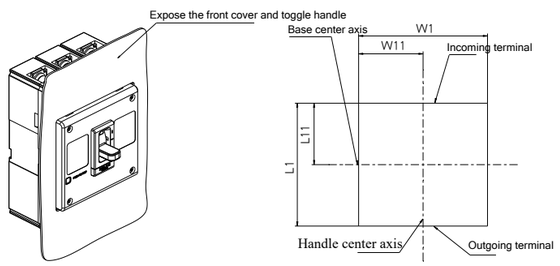
Model CDM3S–	Poles	Dimension																Installation dimension						
		L	L1	L11	L2	L21	L3	W	W1	W2	W3	H	H1	H2	H3	H4	H5	A	B	B1	C	C1	C2	ϕD
63/125	2	132	83	41.5	50	18.5	50	56	25	24	23	82	71	66	56	24	24	–	111	55.5	18	8	8	4.2
63/125CS	3 4	132	83	41.5	50	18.5	50	75 100	25	24	23	82	71	66	56	24	24	25 50	111	55.5	18	8	8	4.2
63/125F	3 4	132	83	41.5	50	26	50	77 102	25	24	23	94.5	83.5	80.5	68.5	24	24	25 50	111	55.5	18	8	8	4.2
125bS	3 4	150	96	48	53	23.5	50	92 122	30	28	28	97	80.5	75	66	23.5	24	30 60	129	64.5	19	8	9	4.5
125b F/N	3 4	150	96	48	53	23.5	50	92 122	30	28	28	115	98.5	93	84	28	28.5	30 60	129	64.5	19	8	9	4.5
160/250S	2 3 4	165	102	51	53	29	80	79 107 142	35	28	33	100	82	77	66.5	24	24	– 35 70	126	63	26	12.5	10	4.8
160/250 F/N/H	3 4	165	102	51	53	29	65	107 142	35	28	33	117	99	94	83.5	23	23	35 70	126	63	26	12.5	10	4.8
400F/N/R	3 4	257	150	75	82	41	95	150 198	48	53	46	146	113	108	96	36.5	36.5	44 44	215	107.5	33	14	16	6.2
630F/N/R	3 4	257	150	75	82	41	95	150 198	48	53	46	146	113	108	96	39	38.5	44 44	215	107.5	33	14	16	6.2
630bF/N/R	3 4	257	150	69	82	41	95	182 240	58	53	56	148	115	110	98	39.5	39.5	58 58	200	94	44.5	19	17.5	6.2
800F/N/R	3 4	280	135	67.5	82	41	105	210 280	70	53	68	158	123.5	118.5	108.5	45	40.5	70 140	243	121.5	45	16	19	7
1250F/N	3 4	276	150	75	90	45	98	210 280	70	58	70	155	113	103	97	35	28	70 140	243	122	45.7	13	16	8
1600F/N	3	408	145	52	115	37	140	223	70	81	68	213	154	149	140	36	34	70	378	189	50	–	–	6

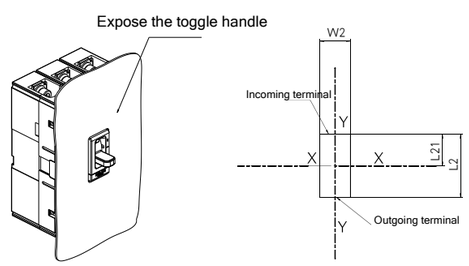
Fixed panel front mounting opening dimensions

Model CDM3S–	Poles	A	A1	B	C	ϕD
63/125	2P	111	55.5	–	–	5
	3P	111	55.5	25	–	5
	4P				25	
125bS/F/N	3P	129	64.5	30	–	5
	4P				30	
160/250S/F/N/H	2P	126	63	–	–	5
	3P			35		
	4P				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



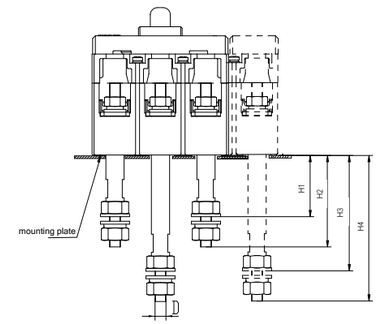
Panel opening size



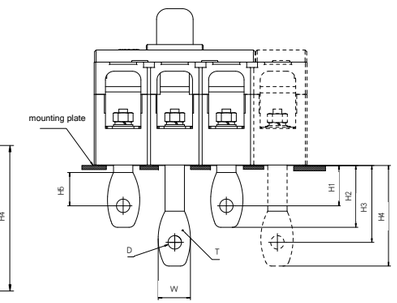


Model CDM3S–	Poles	Expose the front cover and toggle handle				Expose the toggle handle		
		L1	L11	W11	W1	L2	L21	W2
63/125	2P	86	43	29.5	59	53	20	27
63/125 C/S	3P	86	43	39	78	53	20	27
	4P				103			
63/125 F	3P	86	43	40	80	53	20	27
	4P				105			
125b S/F/N	3P	99	49.5	47.5	95	56	25	31
	4P				125			
160/250S/F/N/H	2P	105	52.5	41	82	56	30.5	31
	3P			55	110			
	4P				145			
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

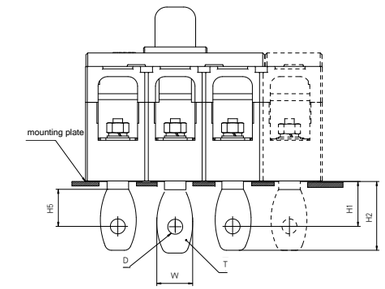
Fixed plate rear dimensions



CDM3S-63/100～ 250 Fixed plate rear (screw) dimensions



CDM3S-400～ 630 Fixed plate rear (horizontal) dimensions

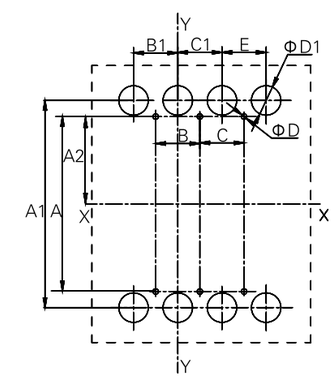


CDM3S-800Fixed plate rear (horizontal) dimensions

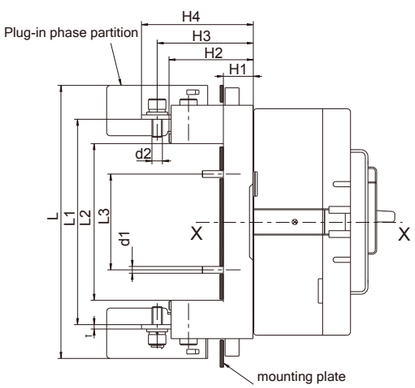
Model CDM3S–	Size position	Fixed plate rear dimension table							
		H1	H2	H3	H4	H5	ΦD	W	T
63/125	Incoming	32	59	73	101	–	M8	–	–
	Outgoing								
125b S	Incoming	33	60	75	102	–	M8	–	–
	Outgoing								
125bF/N	Incoming	28	55	70	97	–	M8	–	–
	Outgoing								
160/250S/F/N/H	Incoming	51	71	81	101	–	M10	–	–
	Outgoing								
400F/N/R	Incoming	40	60	74	97	30	ϕ12.5	31	8
	Outgoing	38	58	72	95				
630F/N/R	Incoming	40	60	74	97	30	ϕ12.5	31	8
	Outgoing	38	58	72	95				
630bF/N/R	Incoming	52.5	75	86.5	108.5	20	ϕ16	35	10
	Outgoing	51.5	74	85.5	108.5				
800F/N/R	Incoming	70.5	94.5	–	–	27	ϕ12.5	34	16
	Outgoing	66	90	–	–				

Fixed panel rear mounting hole dimensions

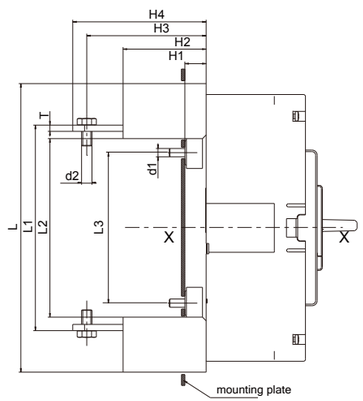
Model CDM3S–	Poles	Fixed plate rear horizontal opening size table									
		A	B	C	ϕD	A1	A2	B1	C1	E	ϕD1
63/125	3	111	25	–	4.5	116	55.5	25	25	–	12
	4			25						25	
125bS/F/N	3	129	30	–	4.5	132	64.5	30	30	–	15
	4			30						30	
160/250S/F/N/H	3	126	35	–	4.8	145	63	35	35	–	15
	4			35						35	
400F/N/R 630F/N/R	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	



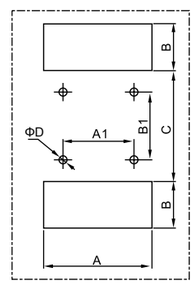
■ Plug-in panel rear appearance and installation opening size (horizontal)



All-in-one（CDM3S-63～250）



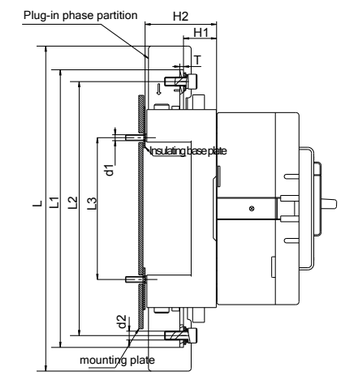
split type （CDM3S-400～800）

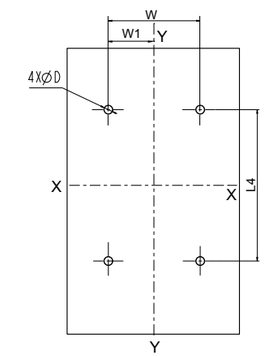


Mounting hole size diagram

Model CDM3S—	Poles	Plug-in Dimensions															
		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	

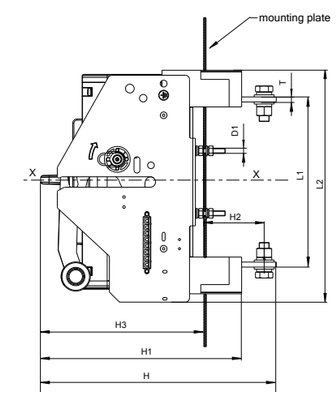
■ Plug-in panel front appearance and installation opening dimensions

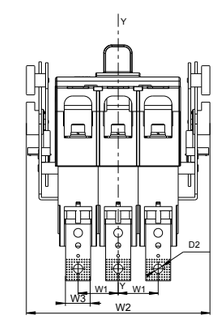




Model CDM3S—	Poles	Plug-in board front dimensions mm									Installation opening size mm			
		L3	L2	L1	L	H1	H2	d1	d2	T	W	W1	L4	ϕD
63/125	3P	96	173	189	223	22	47.2	M3	M6	2.5	25	12.5	96	4
	4P										50			
125b	3P	110	198	214	262	26	55	M4	M6	2.5	30	15	110	5
	4P										60			
160/250	3P	150	223	244	310	38	72	M4	M8	3	35	17.5	150	5
	4P										70			

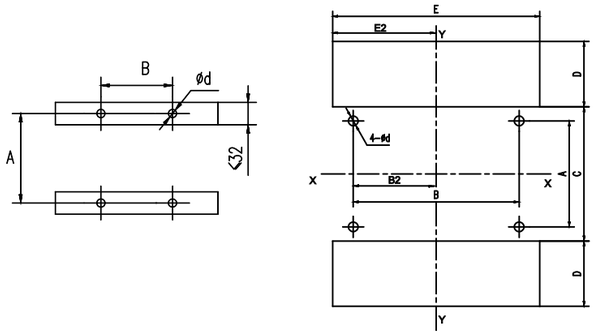
■ Dimensions behind the pull-out panel (horizontal)

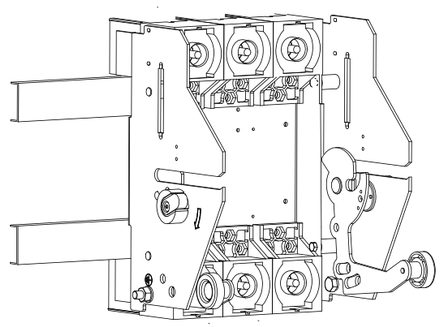




Model CDM3S—	Poles	Dimensional drawing of pull-out rear panel											
		H	H1	H2	H3	L1	L2	W1	W2	W3	T	D1	D2
400	3P	295	253	77	203	204	268	48	223	30	6	M6	ϕ11
	4P								271				
630	3P	295	253	77	203	204	268	48	223	30	8	M6	ϕ11
	4P								271				
630b	3P	326	282	92	204	195	282	58	253	40	10	M6	ϕ13
	4P								311				
800	3P	305	255	73	210	242	315	70	288	40	10	M6	ϕ13.5
	4P								358				

Dimensions of openings for installation behind pull-out panels





Model CDM3S–	Poles	Hole drawing for horizontal installation behind pull-out panel							
		A	B	B2	C	D	E	E2	d
400	3P	140	96	48	178	47	159	79.5	Φ7
	4P		144				207		
630	3P	140	96	48	178	47	159	79.5	Φ7
	4P		144				207		
630b	3P	128	116	58	163	58	189	94.5	Φ7
	4P		174				247		
800	3P	131	140	70	170	77	213	106.5	Φ7
	4P		210				283		

Selection table

Material coding	Description
M3S63C633300	CDM3S–63C/3300 63A
M3S63C63A300	CDM3S–63C/4300A 63A
M3S63C63B300	CDM3S–63C/4300B 63A
M3S63S633300	CDM3S–63S/3300 63A
M3S63S63A300	CDM3S–63S/4300A 63A
M3S63S63B300	CDM3S–63S/4300B 63A
M3S125BS1253300	CDM3S–125bS/3300 125A
M3S125BS125A300	CDM3S–125bS/4300A 125A
M3S125BS125B300	CDM3S–125bS/4300B 125A
M3S125CX1253300	CDM3S–125C/3300 125A NEW
M3S125CX125A300	CDM3S–125C/4300A 125A NEW
M3S125CX125B300	CDM3S–125C/4300B 125A NEW
M3S125SX1253300	CDM3S–125S/3300 125A NEW
M3S125SX125A300	CDM3S–125S/4300A 125A NEW
M3S125SX125B300	CDM3S–125S/4300B 125A NEW
M3S125F1253300	CDM3S–125F/3300 125A
M3S125F125A300	CDM3S–125F/4300A 125A
M3S125F125B300	CDM3S–125F/4300B 125A
M3S160F1603300	CDM3S–160F/3300 160A
M3S160F160A300	CDM3S–160F/4300A 160A
M3S160F160B300	CDM3S–160F/4300B 160A
M3S160N1603300	CDM3S–160N/3300 160A
M3S160S1603300	CDM3S–160S/3300 160A
M3S160S160A300	CDM3S–160S/4300A 160A
M3S160S160B300	CDM3S–160S/4300B 160A
M3S250F2503300	CDM3S–250F/3300 250A
M3S250F250A300	CDM3S–250F/4300A 250A
M3S250F250B300	CDM3S–250F/4300B 250A
M3S250N2503300	CDM3S–250N/3300 250A
M3S250N250A300	CDM3S–250N/4300A 250A
M3S250N250B300	CDM3S–250N/4300B 250A
M3S250S2503300	CDM3S–250S/3300 250A
M3S250S250A300	CDM3S–250S/4300A 250A
M3S250S250B300	CDM3S–250S/4300B 250A
M3S400F2503300	CDM3S–400F/3300 250A
M3S400F250A300	CDM3S–400F/4300A 250A
M3S400F250B300	CDM3S–400F/4300B 250A

Material coding	Description
M3S400F4003300	CDM3S–400F/3300 400A
M3S400F400A300	CDM3S–400F/4300A 400A
M3S400F400B300	CDM3S–400F/4300B 400A
M3S400N4003300	CDM3S–400N/3300 400A
M3S400N400A300	CDM3S–400N/4300A 400A
M3S400N400B300	CDM3S–400N/4300B 400A
M3S400R4003300	CDM3S–400R/3300 400A
M3S630BF4003300	CDM3S–630bF/3300 400A
M3S630BF400A300	CDM3S–630bF/4300A 400A
M3S630BF400B300	CDM3S–630bF/4300B 400A
M3S630BF6303300	CDM3S–630bF/3300 630A
M3S630BF630A300	CDM3S–630bF/4300A 630A
M3S630BF630B300	CDM3S–630bF/4300B 630A
M3S630BN6303300	CDM3S–630bN/3300 630A
M3S630BN630A300	CDM3S–630bN/4300A 630A
M3S630BN630B300	CDM3S–630bN/4300B 630A
M3S630BR6303300	CDM3S–630bR/3300 630A
M3S630F6303300	CDM3S–630F/3300 630A
M3S630F630A300	CDM3S–630F/4300A 630A
M3S630F630B300	CDM3S–630F/4300B 630A
M3S630N6303300	CDM3S–630N/3300 630A
M3S630N6304300A	CDM3S–630N/4300A 630A
M3S630N6304300B	CDM3S–630N/4300B 630A
M3S630R6303300	CDM3S–630R/3300 630A
M3S800F8003300	CDM3S–800F/3300 800A
M3S800F800A300	CDM3S–800F/4300A 800A
M3S800F800B300	CDM3S–800F/4300B 800A
M3S800N8003300	CDM3S–800N/3300 800A
M3S800N800A300	CDM3S–800N/4300A 800A
M3S800R8003300	CDM3S–800R/3300 800A
M3S12XF12503300	CDM3S–1250F/3300 1250A
M3S12XF1250A300	CDM3S–1250F/4300A 1250A
M3S12XF1250B300	CDM3S–1250F/4300B 1250A
M3S12XN12503300	CDM3S–1250N/3300 1250A
M3S16XF16003300	CDM3S–1600F/3300 1600A
M3S16XN16003300	CDM3S–1600N/3300 1600A