NAVIGATOR SERIES | CDM3S

Moulded Case Circuit Breaker

Connectivity, more intelligent



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

More complete accessory more strong

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


Shunt


Alarm


Aux.


Undervoltage


Aux. Alarm


Leaka ge 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

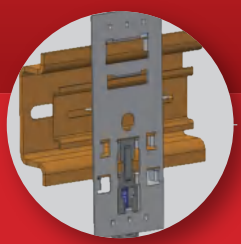
NAVIGATOR SERIES | CDM3S

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

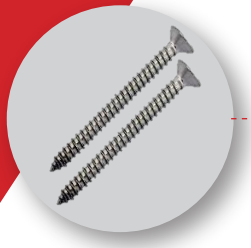


The rail-mounted method is added for 63/100 frame





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 Ue: 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

■ 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)

■ 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: ≤2000m

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.

■ 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

Product Selection

■ Material description



Notes: 1: For the corresponding breaking capacity of each frame, refer to the technical parameters page

2: For the corresponding rated current of each frame, refer to the technical parameters page

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		100/125/140/160			
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)	■			■			-			-			
Product accessories (optional)	Undervoltage release	■			■			■			■			
	Shunt release	■			■			■			■			
	Alarm contact	■			■			■			■			
	Aux. alarm	■			■			■			■			
	Aux. contact	■			■			■			■			
	Motor mechanism CD2 (not for 2P)	■			■			■			■			
	Manual mechanism (not for 2P)	■			-			■			■			
	Extended handle (not for 2P)	-			■			-			■			
Product accessories (standard)	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		
	Deepth	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	
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■				■			■ (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 Ui (V)	800	728	728	664	664	616	616
Impulse withstand voltage Uimp (kV)	8	7	7	6.5	6.5	6	6
Max. operating voltage Ue (V)	690	690	690	660	600	600	550
Power frequency voltage (V)	2000	1820	1820	1660	1660	1540	1540
Rated operating current under 40℃ environment In (A)	1In	0.98In	0.94In	0.92In	0.88In	0.86In	0.85In

■ 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 Ir 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.

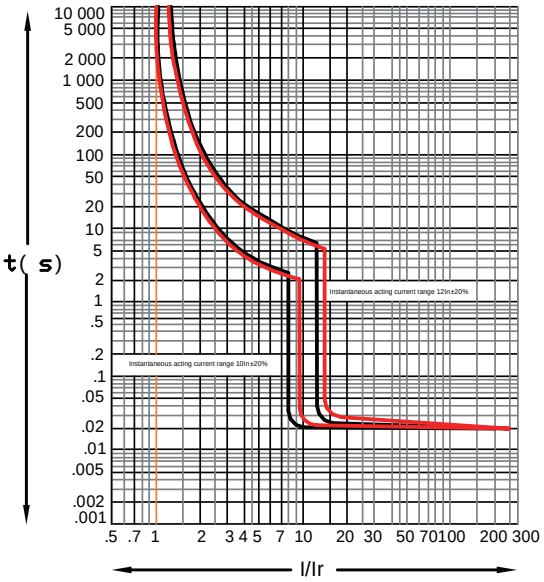
Product line	Circuit breaker model	Ambient temperature ℃													
		-40℃	-35℃	-30℃	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	40℃	45℃	50℃	55℃	60℃	70℃
CDM3S	63C/S	1.36	1.34	1.33	1.32	1.3	1.29	1.25	1.2	1.15	1	0.96	0.95	0.93	0.91	0.87
	125S	1.35	1.34	1.33	1.32	1.3	1.29	1.25	1.2	1.15	1	0.96	0.95	0.93	0.91	0.86
	125C/S	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 used to express the action value, and doesn't mean that the product can work under the increased current.

■ Trip curve diagram

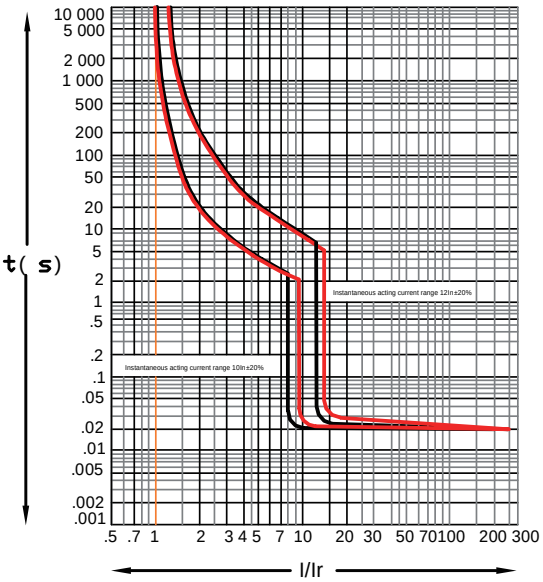
CDM3S -63AF

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



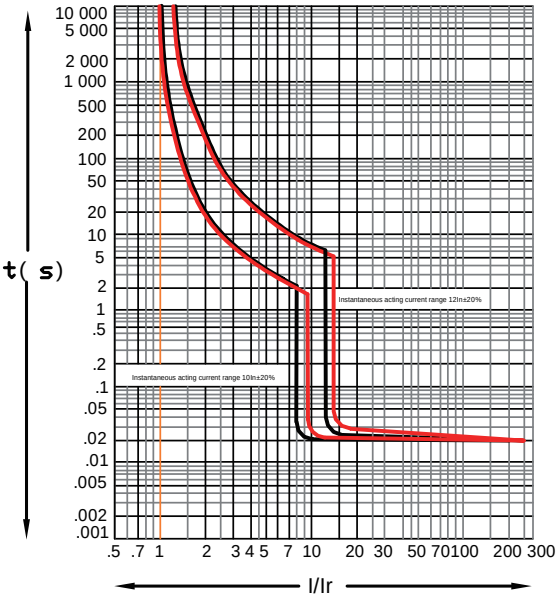
CDM3S-63F, 125AF

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± 20%



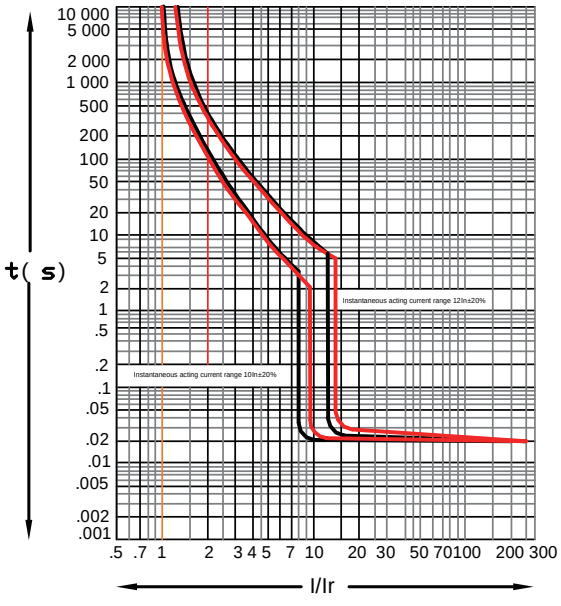
CDM3S-125bAF

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±20%



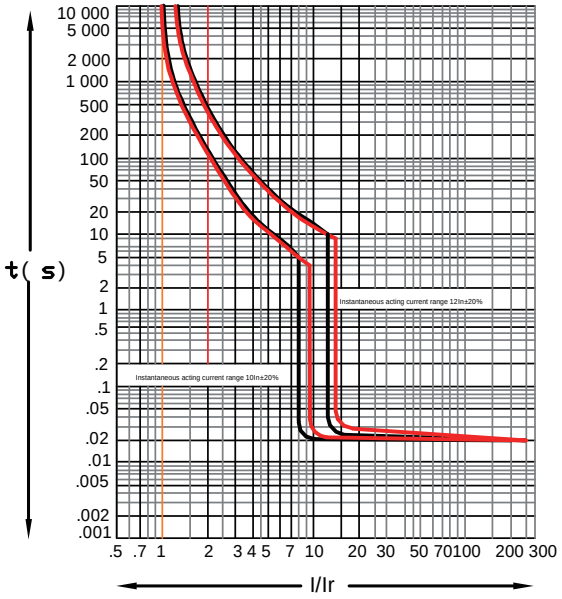
CDM3S-160/250AF

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;



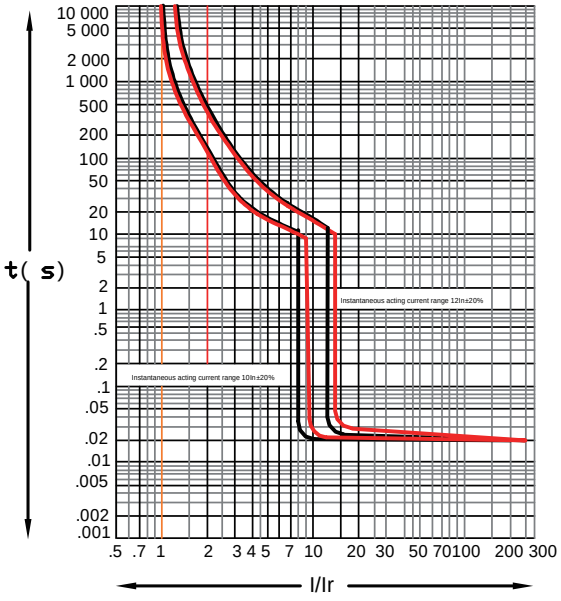
CDM3S-400AF

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



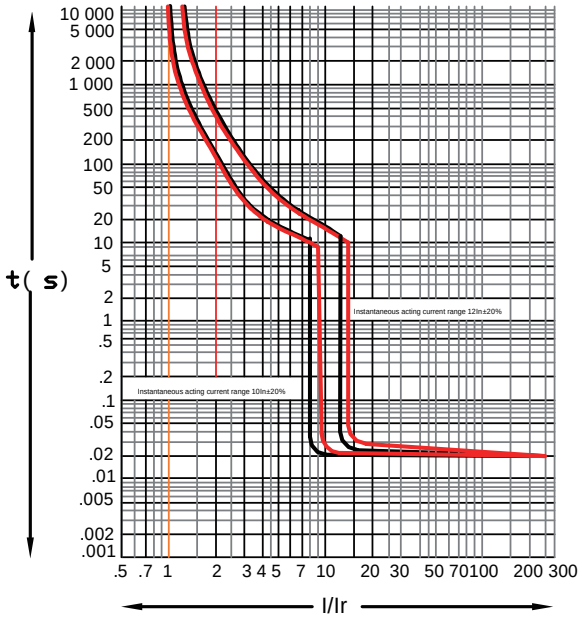
CDM3S-630AF

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



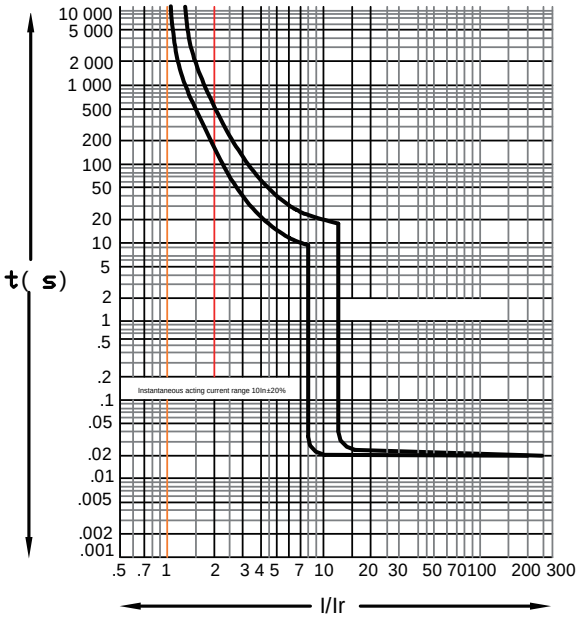
CDM3S-630bAF

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

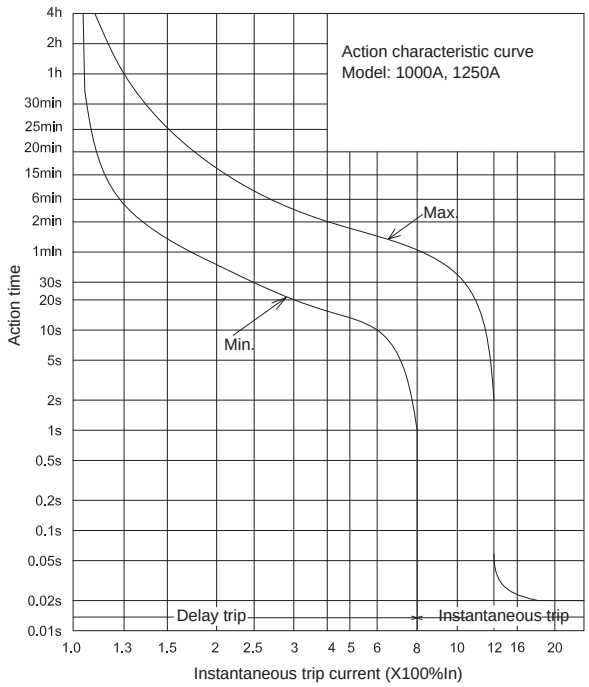


CDM3S-800AF

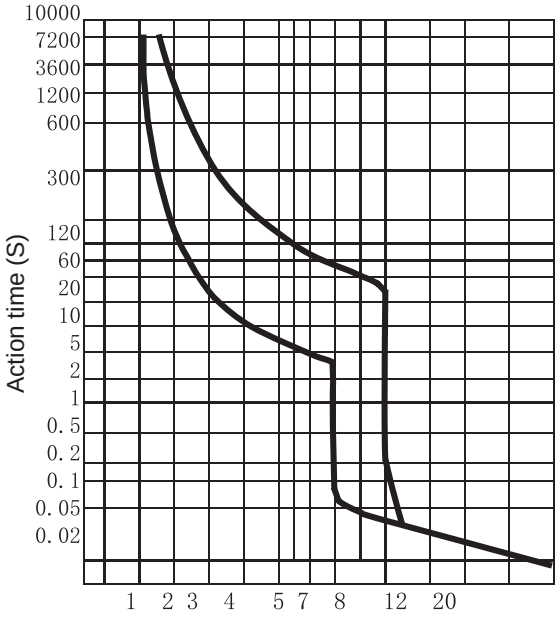
CDM3S-800AF 630A-800A black line is for power distribution protection



CDM3S-1250AF

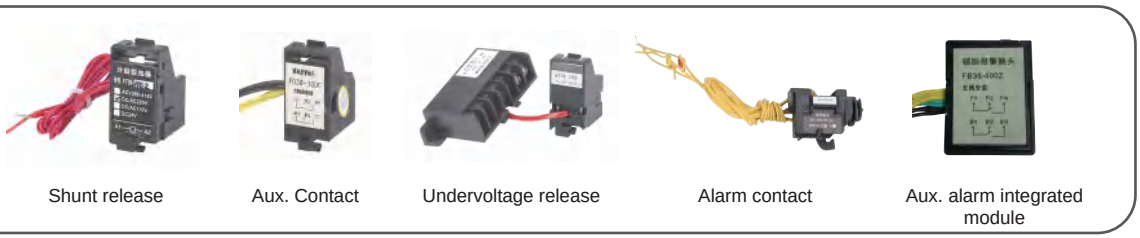


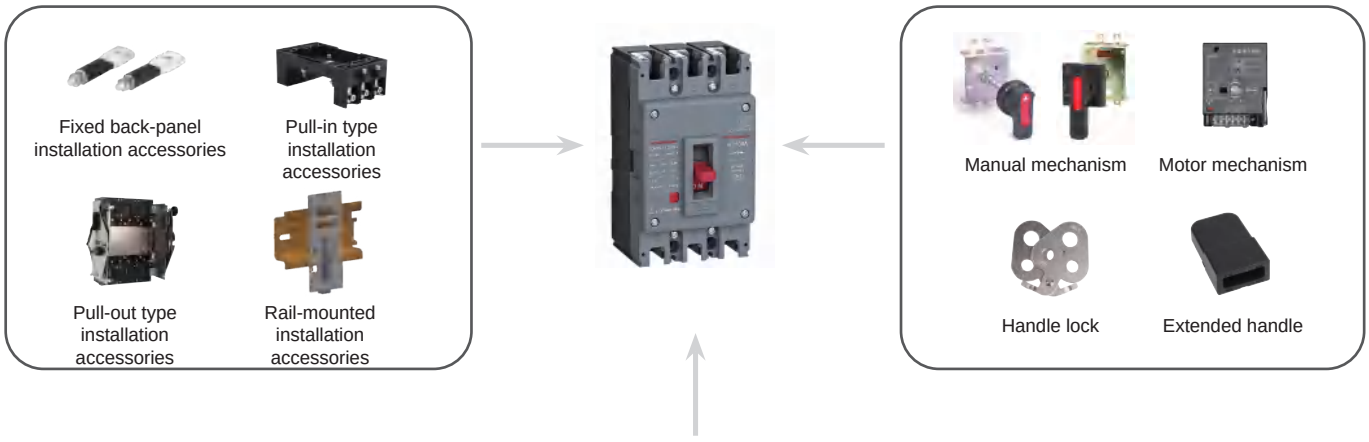
CDM3S -1600AF



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 racing shield, cable connector, dust cover, phase partition, extended terminal







■ Accessories Selection

Electrical accessories

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

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 125b 160/250 400/630 630b 800 1250 1600	Motor mechanism Square manual mechanism Round manual mechanism Extended square manual mechanism Extended round manual mechanism Extended round manual mechanism	AC230V/DC220V AC400V DC24V DC110V/AC110V

Other accessories

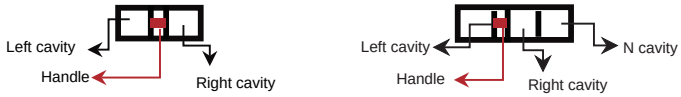
CDM3S	Frame current	Accessory name	Number of poles
	63/125* 125b 160/250 400/630 630b 800 1250 1600	Extended terminal Phase partition Junction pole Handle position lock Terminal cover	3P 4P

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:
1. 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.
2. The default assembly mode is lead (0.5m) for auxiliary, alarm, shunt, dual auxiliary, and auxiliary alarm, and the terminal is optional.
3. The default length of the electrical accessory lead is 0.5m;
4. The assembly mode of the undervoltage is terminal.

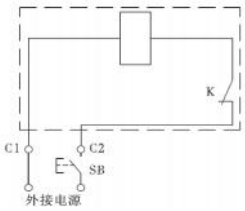
■ Shunt release

· 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;

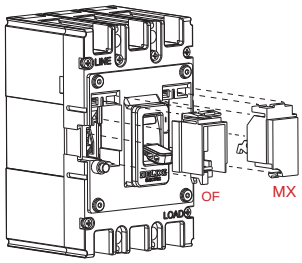
The circuit breaker can reset locally after trip by the shunt release.

· Shunt wiring diagram



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

· MX installation diagram



· MX shunt release



Electrical specifications

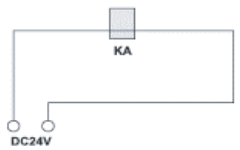
Product model CDM3S-	Installation position	Min. operating power of shunt coil (W)		
		AC400V	AC230V	DC24
63/125	Left and right cavities -	155	150	96
125b	Left and right cavities -	120	75	115
160/250(2P)	Left and right cavities -	155	150	96
160/250(3P/4P)	Left cavity -	135	165	109
	Right cavity -	85	75	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:

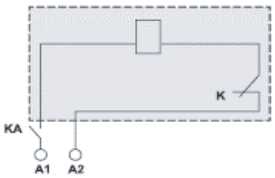
1:The maximum length of copper wire shall meet the following requirements:

Sectional area of wire / Rated control power voltage Uc ((DC24V)	1.5mm²	2.5mm²
100%Uc	150m	250m
80%Uc	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:



KA: It is DC24V intermediate relay, and the contact current capacity is 1A



Power input

■ Undervoltage release

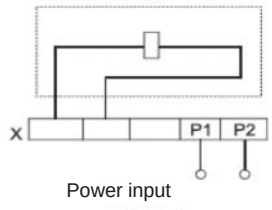
· Function: To realize the undervoltage protection function of circuit breaker; it can open the circuit breaker when the power voltage is too low for protection of electrical equipment;

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;

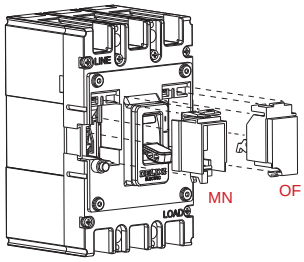
· Undervoltage wiring diagram



Note: X-Terminal block

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

· Undervoltage release installation diagram



· MN undervoltage release



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

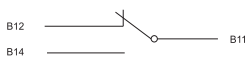
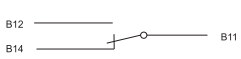
■ Alarm contact

· 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		

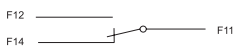
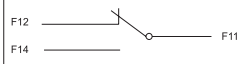
Electrical parameters of alarm contact			
Resistive current (A)		3A	
Usage category GB14048.5-1		AC15	DC13
Operating voltage 50/60 HZ	AC400V	0.3A	-
	DC220V	-	0.15A

■ 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.



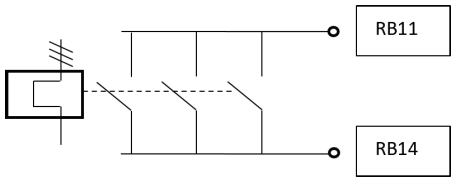
Electrical wiring diagram

Accessory name	ON	OFF/Trip
Aux. 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

■ 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.



Wiring schematic diagram

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

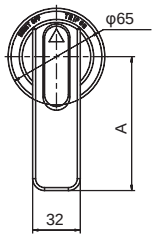
· Operate the circuit by turning the handle; the use of rotary handle that complies with the ergonomics design can make the operation of circuit breaker more flexibly

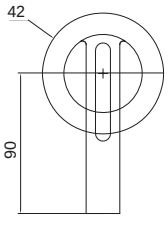
· There are two forms of rotary handle operating mechanism;
Direct rotation of manual mechanism (round manual mechanism, square manual mechanism)
Extended rotation of manual mechanism (round extended manual mechanism, and square extended manual mechanism)

· 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.

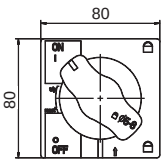


Dimensions of direct manual mechanism

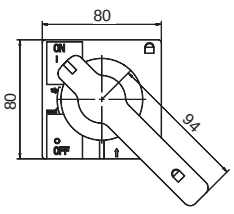




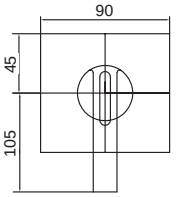
Round: suitable for CDM3S-63~800



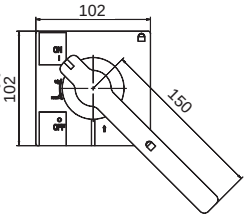
Square: suitable for CDM3S-63~250



Square: suitable for DM3S-400~800

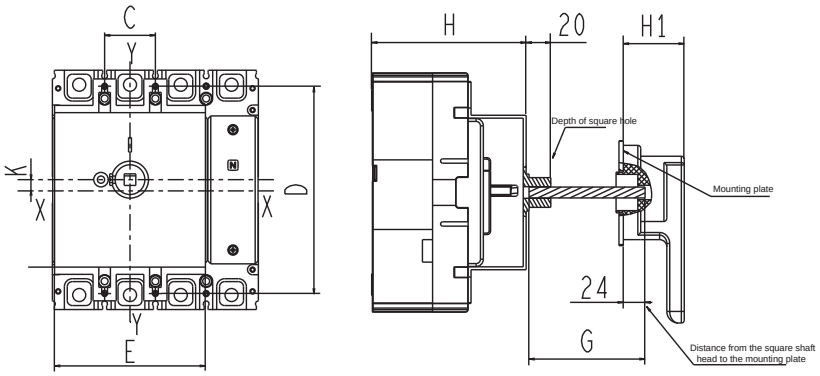


Square: suitable for CDM3S-1250



Square: suitable for CDM3S-1600

Installation dimensions of manual operating mechanism



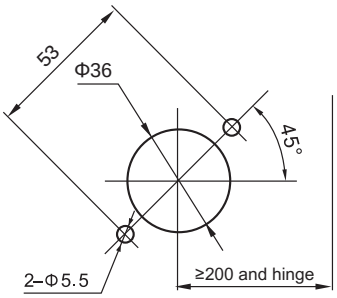
Product model CDM3S-	A*	C	D	E	H	G*direct manual operating mechanism	G*extended manual operating mechanism (by default)	Height of round handle H1	Height of square handle H1	Offset between the center of base and the center of manual mechanism K
63/125C 125S	65	25	111	75	110	40	150	48	48	0
63F, 125F	65	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.

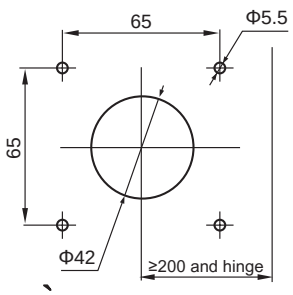
2. G*: If other length is required, please contact the manufacturer for customization.

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

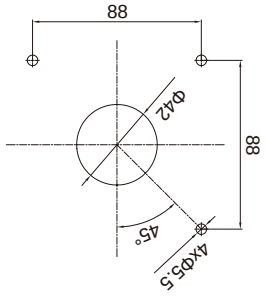
Dimensions of mounting hole of cabinet door



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

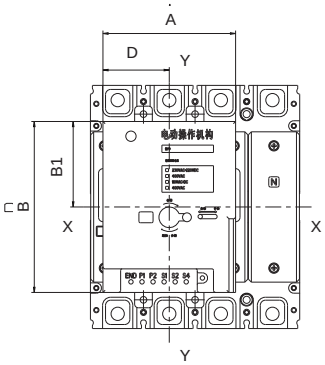
· Function: suitable for remote and electric closing and opening, re-trip and automatic control application of circuit breaker
Rated voltages of motor mechanism: AC400V; AC230V/DC220V; AC110V/DC110V; DC24V
Motor mechanism operating voltage range: 80%-110%Ue

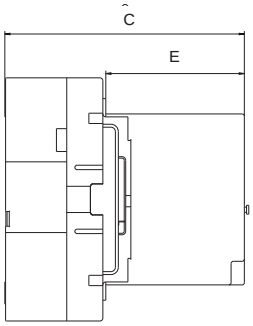
· Voltage and allowable range of CD2 motor mechanism
CD2: 63A-250A: The operating frequency is greater than 180 times per hour, and the action time is ≤0.7s
CD2: 400A-1600A: The operating frequency is not greater than 60 times per hour, and the action time is ≤1s

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

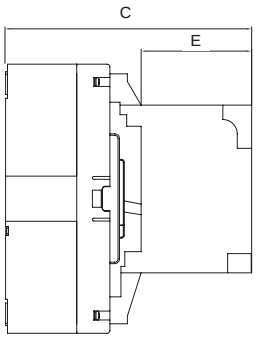


Dimensions of motor mechanism





CDM3S-63~630/1600



CDM3S-800/1250

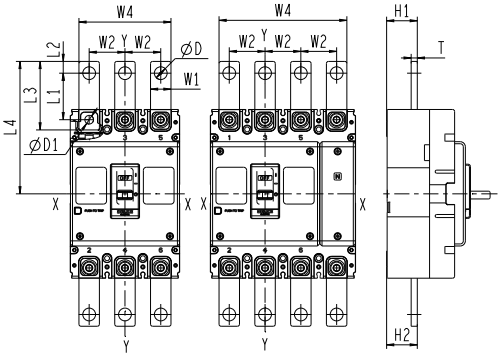
Product model CDM3S-	A	B	B1	C	D	E
63/125C 125S	75	112	56	151	37.5	93
63F/125F	75	112	56	163.5	37.5	93
125bS	91	116	58	159	45.5	92
125bF/N	91	116	58	177	45.5	92
160/250S	91	118	59	163	45.5	96
160/250F/N/H	91	118	59	180	45.5	96
400F/N/R	131	175	95.5	243.5	65.5	147
630F/N/R	131	175	95.5	243.5	65.5	147
630bF/N/R	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

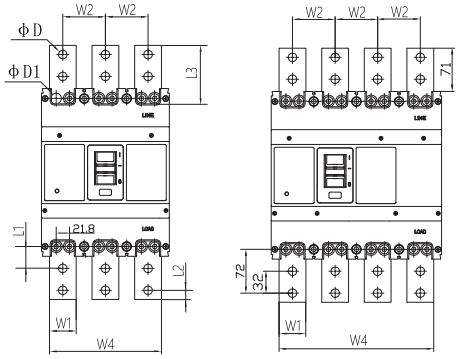
The extended terminal is connected to the standard terminal of circuit breaker to provide multiple wiring schemes in a small space:

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

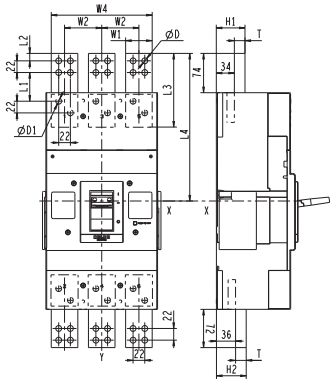
Dimensions of straight extended terminal



Straight extended terminal, suitable for CDM3S-63~800



Straight extended terminal, suitable for CDM3S-1250

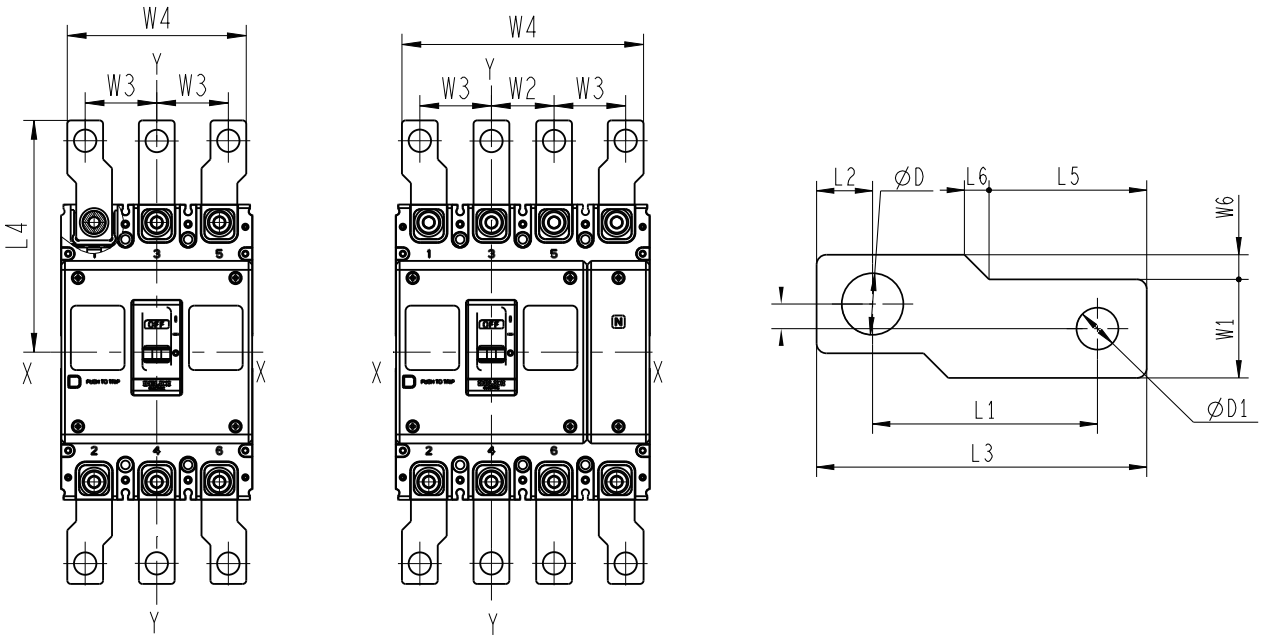


Straight extended terminal, suitable for CDM3S-1600

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 4P	24.5	8	40	90.5	16	25	66 91	26.5	26.5	3	8	8
125bS	3P 4P	24.5	8	40	98.5	16	30	76 106	27	26.5	3	8	8
125bF/N	3P 4P	24.5	8	40	98.5	16	30	76 106	31.5	31	3	8	8
160/250S	3P 4P	45.5	11.5	67	129.5	20	35	90 125	30	30	6	8.5	12. 5
160/250F/N/H	3P 4P	45.5	11.5	67	129.5	20	35	90 125	29	29	6	8.5	12.5
400F/N/R	3P 4P	42.5	16.2	70	171.2	29.5	48	125.5 173.5	44.5	44.5	8	10.5	12.5
630F/N/R	3P 4P	42.5	16	70	171	30	48	126 174	48.5	48.5	12	10.5	12.5
630bF/N/R	3P 4P	86	20	120	217	40	58	156 214	49.5	49.5	10	13	13
800F/N/R	3P 4P	71.5	15	97.5	208	44	70	184 254	50.5	55	10	14	14
1250F/N	3P 4P	40	28	100	208.8	40	70	184 254	44/48	51/55	2*8/2*10	10	13
1600F/N	3P(800A~1250) 3P(1600A)	53	14	125	278	50	70	190	49 54	51 56	15 20	11	11

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.

Dimensions of left and right extended terminals

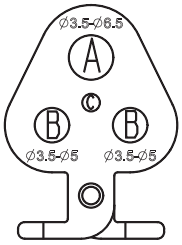


Installation dimensions of left and right extended terminals

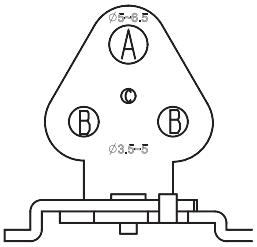
Product model CDM3S-	Number of poles	Dimensions of left and right extended busbar located between phases																
		L1	L2	L3	L4	L5	L6	W1	W2	W3	W4	W5	W6	H1	H2	T	φD1	φD
63/125	3P	24.5	8	40	90.5	20	5	16	25	30	76	5	5	26.5	26.5	3	8	8
	4P										101							
125 bS	3P	24.5	8	40	98.5	20	5	16	30	35	86	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

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 125b 160/250	φ3.5~6.5	φ3.5~5	φ2.6	OFF position (retrip) ON position
400/630 630b 800	φ5~6.5	φ3.5~5	φ2.6	OFF position (retrip)



CDM3S-63~250



CDM3S-400~800

Note: The padlock shall be provided by user.

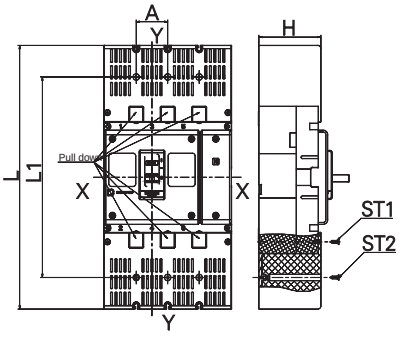
■ Terminal cover

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

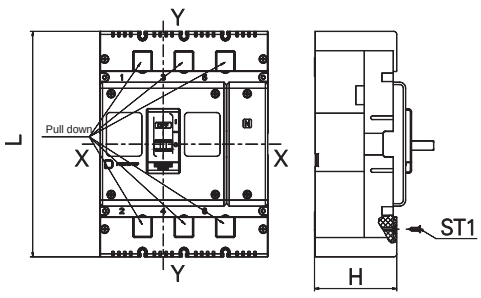
Product model CDM3S-	L	L1	A	H	ST1	ST2
63/125C 125S	250	178	25	58	ST 2.6×10	ST 2.6×10
63F/125F	250	178	25	70.5	ST 2.6×10	ST 2.6×10
125bS	270	204	30	68.5	ST 2.9×10	ST 2.9×10
125bF/N	270	204	30	86.5	ST 2.9×10	ST 2.9×10
160/250S	286	217	35	70	ST 2.9×10	ST 2.9×10
160/250F/N/H	286	217	35	87	ST 2.9×10	ST 2.9×10
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.

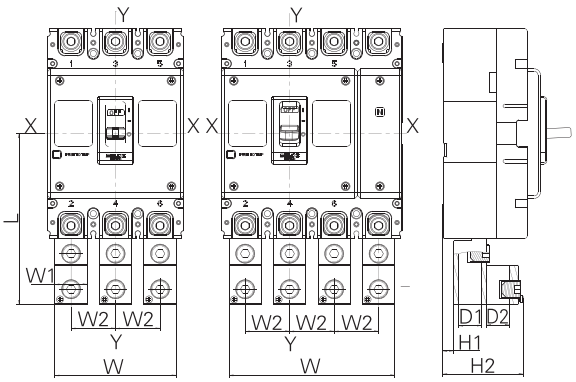
Dimensions of short terminal cover & zero arcing cover

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

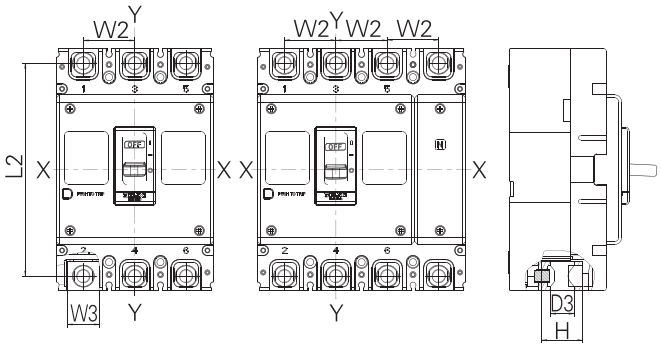


Notes: Screws in the 125C and 125S terminal accessories are not used
2.63 frame, 100 frame, 125bS and 160S frame are not equipped with zero flashover hood

■ Junction pole



External type

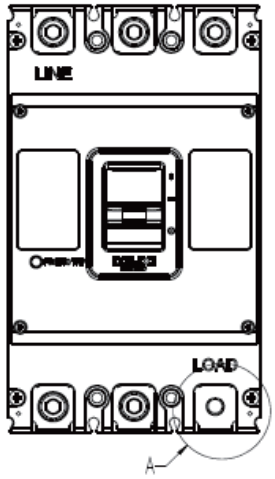


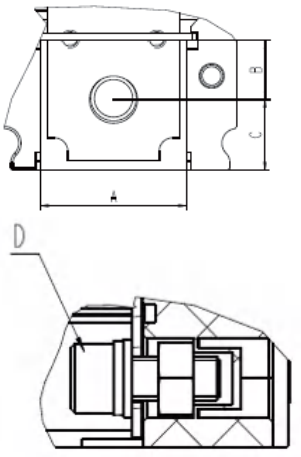
Built-in type

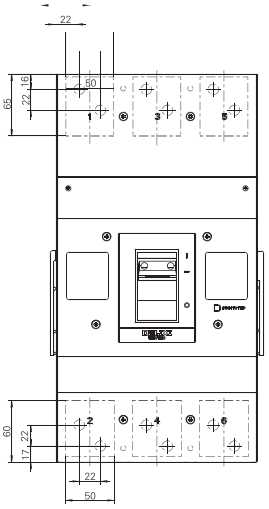
Product model CDM3S-	Number of poles	Installation dimensions											
		L	L2	W1	W2	W3	W	H1	H2	H	D1	D2	D3
63/125	3P	97.5	116	16.6	25	17	66.6	20	46.5	15.8	φ8.5	φ8.5	φ10.5
	4P						91.6						
125b s	3P	118	132	17	30	17	77	17	59	22	φ12	φ12	φ12
	4P						107						
125b F/N	3P	118	132	17	30	17	77	21.5	63.5	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







1600 Wiring dimensions

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

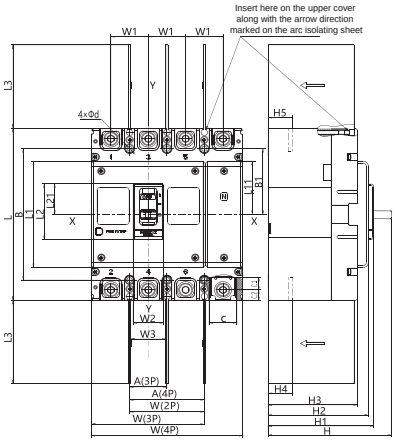
Rated current (A)	10	16 20	25	32	40 50	63	80	100	125 140	160	180 200 225	250	315 350	400
Recommended sectional area of copper wire (mm^2)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	185	240

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

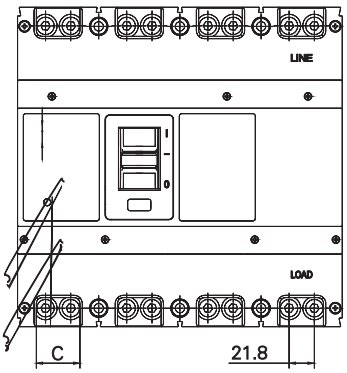
Note: Please note that the sizes C, C1, and C2 in the outline, installation and wiring dimensions of CDM3S series, and the diameter of the appropriate connecting terminal shall comply with the corresponding wiring capacity requirements.

■ Fixed type front-panel outline dimensions

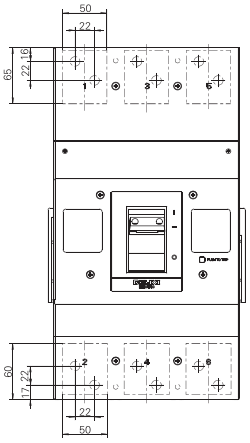
X-X: Center axis of the base, the same below
Y-Y: Center axis of the handle, the same below



CDM3S-1250 Wiring dimensions drawing



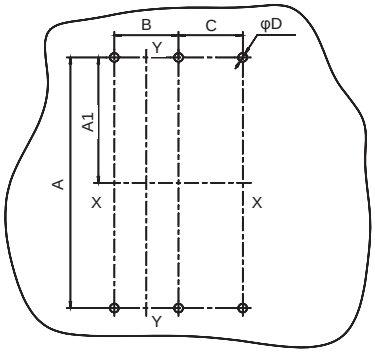
CDM3S-1600AF Dimensional wiring drawing



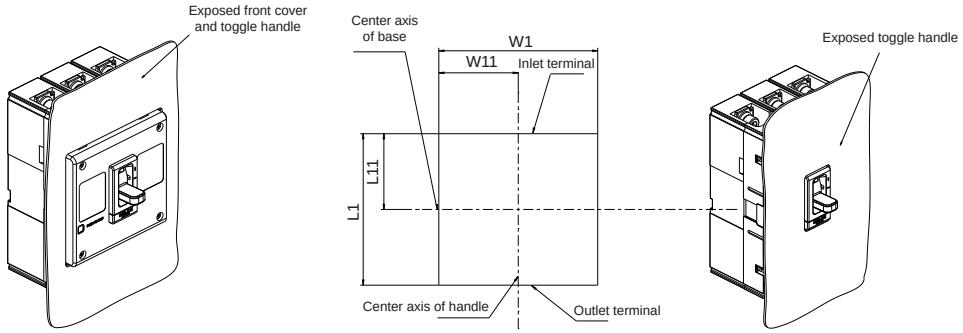
Product model CDM3S-	Number of poles	Outline dimensions																Installation dimensions						
		L	L1	L11	L2	L21	L3	W	W1	W2	W3	H	H1	H2	H3	H4	H5	A	B	B1	C	C1	C2	φD
63/125	2	132	83	41.5	50	18.5	50	56	25	24	23	82	71	66	56	24	24	-	111	55.5	18	8	8	4.2
63/125CS	3	132	83	41.5	50	18.5	50	75	25	24	23	82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

■ 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			25	-	
	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

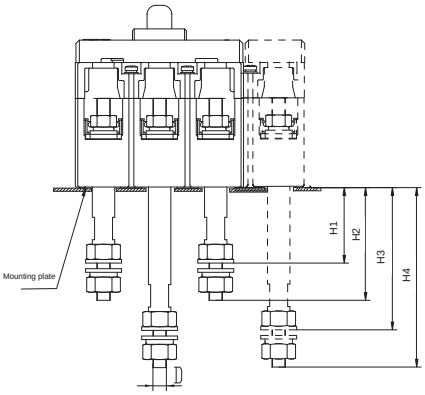


■ Size of hole on panel

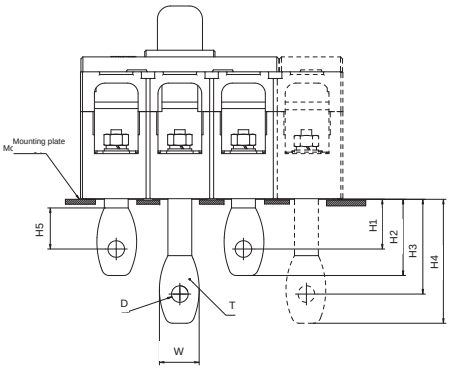


Product model CDM3S-	Number of poles	Exposed front cover and toggle handle				Exposed toggle handle		
		L1	L11	W11	W1	L2	L21	W2
63/125	2P	86	43	29.5	59	53	20	27
63/125 C/S	3P	86	43	39	78	53	20	27
	4P				103			
63/125 F	3P	86	43	40	80	53	20	27
	4P				105			
125b S/F/N	3P	99	49.5	47.5	95	56	25	31
	4P	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

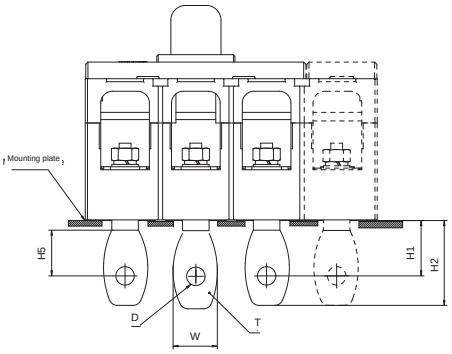
Fixed type back-panel outline dimensions



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



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

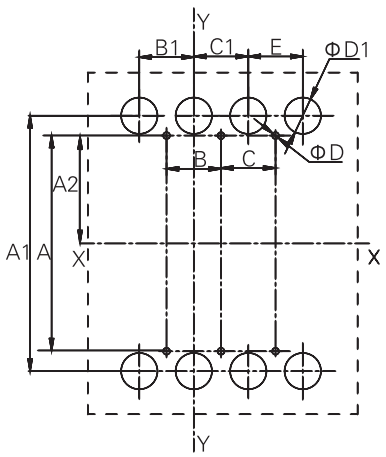


(Horizontal) dimensions of CDM3S-800 fixed type back-panel

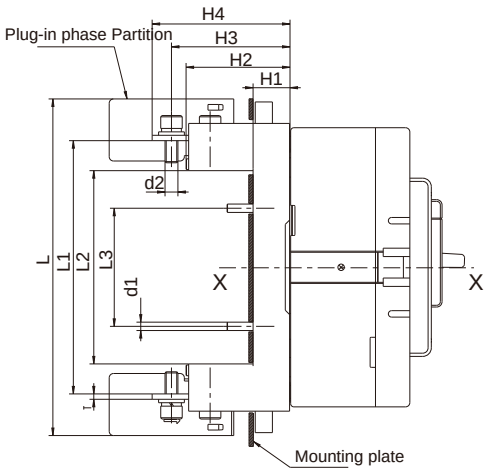
Product model CDM3S-	Dimensional location	Fixed type back H2 H3 -panel dimensions table							
		H1	H2	H3	H4	H5	ΦD	W	T
63/125	Inlet terminal Outlet terminal	32	59	73	101	-	M8	-	-
125b S	Inlet terminal Outlet terminal	33	60	75	102	-	M8	-	-
125bF/N	Inlet terminal Outlet terminal	28	55	70	97	-	M8	-	-
160/250S/F/N/H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

■ Fixed type back-panel horizontal hole dimensions

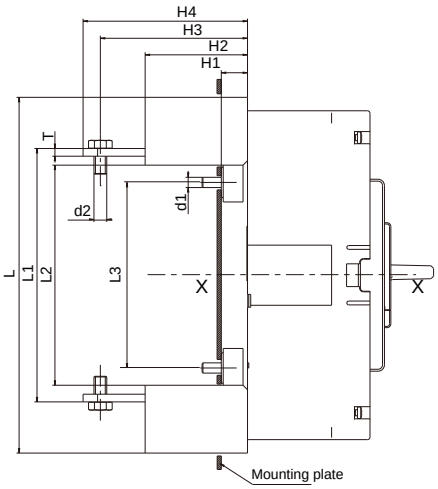
Product model CDM3S-	Number of poles	Fixed type back-panel horizontal hole dimensions table									
		A	B	C	φD	A1	A2	B1	C1	E	φD1
63/125	3 4	111	25	- 25	4.5	116	55.5	25	25	- 25	12
125bS/F/N	3 4	129	30	- 30	4.5	132	64.5	30	30	- 30	15
160/250S/F/N/H	3 4	126	35	- 35	4.8	145	63	35	35	- 35	15
400F/N/R 630F/N/R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



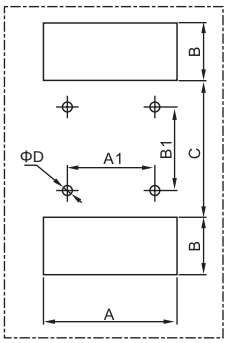
■ Plug-in type back-panel outline and installation hole dimensions (horizontal)



Integrated type (CDM3S-63~250)



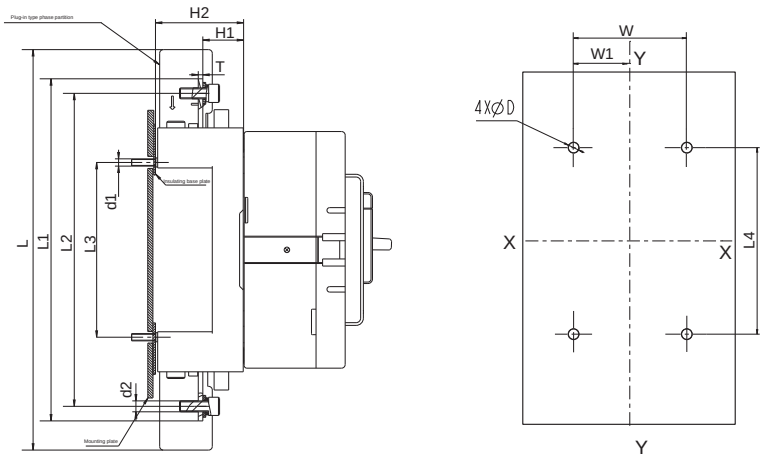
Split type (CDM3S-400~800)



Mounting hole dimensions

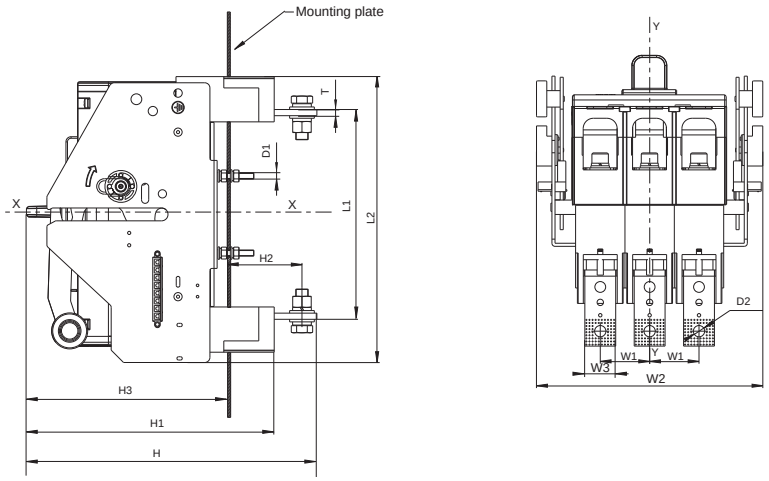
Product model CDM3S-	Number of poles	Outline dimensions for plug-in type															
		H1	H2	H3	H4	L3	L2	L1	L	T	d1	d2	A	C	B	B1	A1	φD
63/125	3P	17	47	59	67.5	55	90	117	160	3	M4	M6	79	85	27.5	55	50	5.5
	4P												104				75	
125b	3P	20	56	67	75	60	100	134	186	3	M4	M6	94	90	40	60	60	5.5
	4P												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



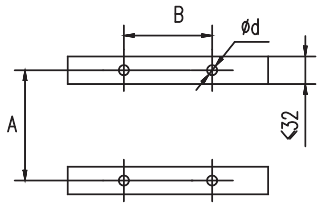
Product model CDM3S-	Number of poles	PlugL2 -in front L1 -panel outline dimensions mm									Mounting hole dimensions mm			
		L3	L2	L1	L	H1	H2	d1	d2	T	W	W1	L4	φD
63/125	3P	96	173	189	223	22	47.2	M3	M6	2.5	25	12.5	96	4
	4P										50			
125b	3P	110	198	214	262	26	55	M4	M6	2.5	30	15	110	5
	4P							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

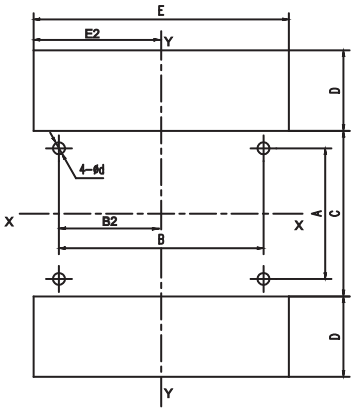
■ Pull-out type back-panel outline dimensions (horizontal)

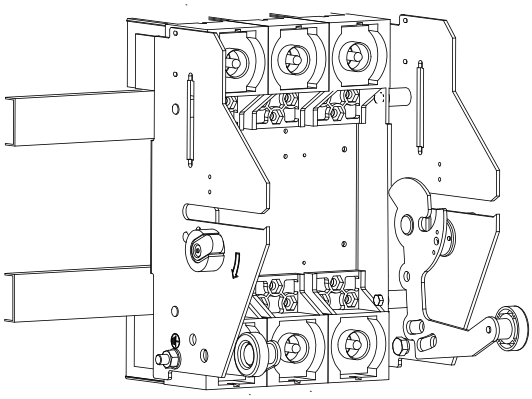


Product model CDM3S-	Number of poles	Pull-out back-panel outline dimensions											
		H	H1	H2	H3	L1	L2	W1	W2	W3	T	D1	D2
400	3P	295	253	77	203	204	268	48	223	30	6	M6	φ11
	4P								271				
630	3P	295	253	77	203	204	268	48	223	30	8	M6	φ11
	4P								271				
630b	3P	326	282	92	204	195	282	58	253	40	10	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	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		

Model Table

Material code	Material 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 code	Material 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
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M3S630BN6303300	CDM3S-630bN/3300 630A
M3S630BN630A300	CDM3S-630bN/4300A 630A
M3S630BN630B300	CDM3S-630bN/4300B 630A
M3S630BR6303300	CDM3S-630bR/3300 630A
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M3S16XN16003300	CDM3S-1600N/3300 1600A