

Product overview

■ Compliant standard

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

■ Pollution level

- CDM3E Series products operate at pollution level 3
- The IEC 60947-1 and 60664-1 standards define the environment (industrial environment)
- According to Table H.1 of GB/T 14048.1-2012: When the rated impulse withstand voltage is 8kV at an altitude of 2000m

■ Resistance to moisture and heat

- Dry cold, dry hot, wet hot
- Ambient temperature
 - The upper limit of ambient air temperature is +70°C, and the lower limit is -40°C. 24h average temperature does not exceed 35°C (Note: For use in the range of -40°C ~ -25°C, +40°C ~ +70°C, please contact the manufacturer or refer to the capacity reduction coefficient table)
 - The storage temperature is -40°C to 70°C

■ Altitude

- The altitude of the normal installation site does not exceed 2000m
- If it is necessary to install at an altitude of more than 2000m, the change in dielectric strength must be taken into account. And air temperature drop factors, refer to the altitude reduction coefficient table to use, or please contact us.

■ humidness

It should be satisfied during normal work:

- When the ambient air temperature is +40 °C, the relative humidity of the atmosphere cannot exceed 50%, and if the temperature is low, it can be used under higher relative humidity conditions.
- The average monthly relative humidity in the wettest months is 90%.
- It is necessary to consider the effect of condensation on the product surface on the product performance.



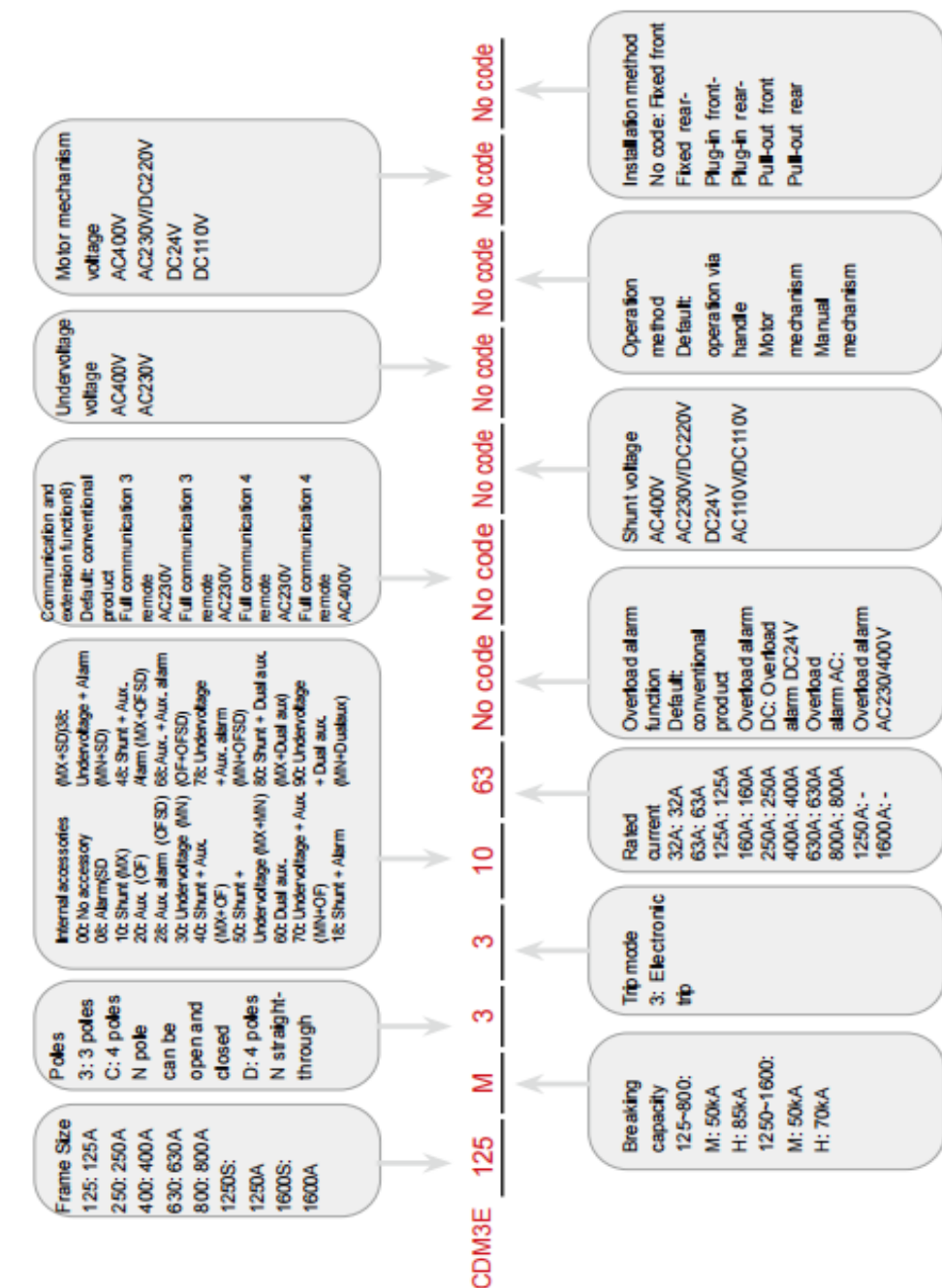
■ Reliable contact indication with isolation

- The CDM3E series of molded case circuit breakers comply with the isolation defined in IEC standard 60947-2.
- The isolation position corresponds to the O (OFF) position
 - Only when the contact is truly open can the operating handle indicate the "OFF" position
 - Rotating the handle or the electric operating mechanism does not change the reliability of the contact indicating system

■ Class of protection

- m Circuit breaker body: IP20 (without terminal)
- Circuit breakers installed in switchgear: Circuit breakers with rotary operation: IP40
- Circuit breaker with electric operation mechanism: IP40

Product selection



Remark:

- The 1250A and 1600A have no communication function
- The 1250A and 1600A have no overload alarm function
- The shunt excitation and electrical operation of 1250A and 1600A have no AC110V, DC110V, DC220V control voltage
- 800 shell frame and the following internal accessories (except undervoltage for terminal supply) Other products are standard for lead supply length 500mm; If there is any other length or need with terminals, please note;
- 125AF, 250AF non-withdrawable products. 400AF, 630AF no insert plate front products
- The plug-in front product is configured with a horizontal cable outlet bar by default
- Conventional product standard: phase spacing arc plate, mounting screw
- Three remote standard (auxiliary report + communication module); Four remote standard (auxiliary report + electrical operation + communication module). The communication module voltage is AC230V/400V

Technical parameter

Product model		CDM3E-125			CDM3E-250	
Rated voltage Ue (V)		400/415/690			400/415/690	
Rated insulation voltage Ui (V)		800			800	
Rated impulse withstand voltage Uimp (V)		8000			8000	
Rated frequency (HZ)		50			50	
Rated current (A)		32	63	125	160、250	
Number of poles(4P-C/D type)(C:with protection and breaking; D: Through)		3/4			3/4	
Category of use		A			A	
Breaking capacity	Breaking grade	M			M	
	Icu (kA) AC 400/415V	50			50	
	Icu (kA) AC 690V	20			20	
	Ics (kA) AC 400/415V	50			50	
	Ics (kA) AC 690V	10			10	
Rated short-time withstand current		0.5 (1s)0.5 (1s)			10	
Icw (kA) AC 400/415V		1 (1s)2.5 (1s)			3 (1s)	
Mechanical life	Mechanical maintenance	40000			40000	
	no maintenance	20000			20000	
Electrical life	AC 400/415V	10000			10000	
	AC 690V	8000			8000	
Protection type	Distribution protection	■			■	
	Motor protection	■			■	
Trip mode	Electronic trip unit					
	protection mode	LSI (N)			LSI (N)	
Installation method	Fixed plate front wiring	■			■	
	Fixed plate rear wiring	■ (螺杆式)			■ (螺杆式)	
	Insert plate front wiring	■				
	Drawout type 2)	■			-	
Product accessories	Undervoltage tripper	■			■	
	Shunt tripper	-			■	
	Alarm contact	■			■	
	Auxiliary co	■			■	
	Auxiliary contact (2 open 2 close)	■			■	
	Ac and DC electric operation	■			■	
	Circular direct hand exercises	■			■	
	Square direct hand exercises	■			■	
	Circular extension hand exercises	■			■	
	Square extension hand exercises	■			■	
	Interphase partition	■			■	
	Communication backpack	■			■	
	Overload alarm not tripping	■			■	
	Zero flare hood (only M breaks 3P)	■			■	
Self-mounting of accessories		■			■	
Isolation function authentication		CCC/CE			CCC/CE	

Note: 1) The production is horizontal wiring after the board, and the user can modify the vertical wiring after the board, see the fixed horizontal installation diagram after the board
2) The production is horizontal wiring after the board, and the user can modify the vertical wiring after the board, see the installation diagram of the withdrawable rear wiring

CDM3E-400	CDM3E-630	CDM3E-800	CDM3E-1250S	CDM3E-1600S
400/415/690	400/415/690	400/415/690	400/415/690	400/415/690
800	800	1000	1000	1000
8000	8000	12000	12000	12000
50	50	50	50	50
400	630	800	1250	1600
3/4	3/4	3/4	3	3
B	B	B	B	B
M	M	M	M	M
50	50	50	50	50
-	-	-	20	35
50	50	50	36	50
-	-	-	20	35
5 (1s)	8 (1s)	10 (1s)	20 (1s)	20 (1s)
20000	20000	20000	25000	25000
10000	10000	10000	12500	12500
7500	7500	7500	6000	6000
6000	6000	6000	3000	3000
■	■	■	■	■
■	■	■	■	■
LSI (N)	LSI (N)	LSI (N)	LSIG	LSIG
■	■	■	■	■
■ (水平 ¹⁾)	■ (水平 ¹⁾)	■ (水平 ¹⁾)		
-	-	-	-	-
■	■	■	-	-
■	■	■	-	-
■	■	■	-	-
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	-	-
■	■	■	-	-
CCC/CE	CCC/CE	CCC /CE	CCC/CE	CCC/CE



■ Temperature reduction coefficient table

Rated current	+40℃	+50℃	+60℃	+70℃
125A	—	—	Inm=80A	Inm=63A
250A	—	—	Inm=200A	Inm=160A
400A	—	—	Inm=315A	Inm=250A
630A	—	—	Inm=500A	Inm=400A
800A	—	—	Inm=560A	Inm=500A
1250A	—	Inm=1200A	Inm=1150A	Inm=1100A
1600A	—	Inm=1500A	Inm=1470A	Inm=1400A

Note: The maximum setting value cannot exceed 1m.

To ensure that users can use the device at high temperature for a long time and avoid faults due to excessive temperature rise, you are advised to refer to the temperature reduction coefficient table.

- Altitude reduction coefficient

CDM3E-Below 800

The height below 2000 meters will not affect the circuit breaker performance. Above this height, the reduction of air insulation characteristics and cooling capacity must be considered; The correction factors given in the following table are used when the installation altitude exceeds 2000 m:

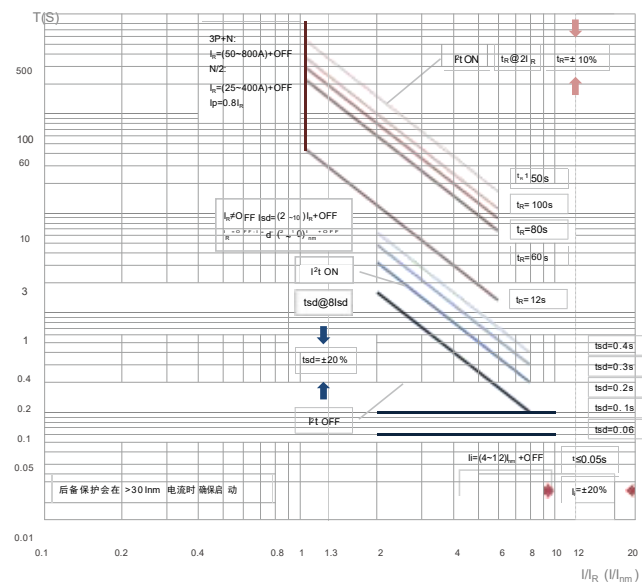
altitude (m)	2000	2500	3000	3500	4000	4500	5000
Insulation voltage Ui (V)	800	728	728	664	664	616	616
Impulse withstand voltage Uimp (kV)	8	7	7	6.5	6.5	6	6
Maximum operating voltage Ue (V)	690	690	690	660	600	600	550
Thermal rating at 40℃ In (A)	1In	0.98In	0.94In	0.92In	0.88In	0.86In	0.85In

CDM3E-1250/1600

altitude (m)	2000	3000	4000	5000
Working current correction factor	1In	0.94In	0.88In	0.85In
Maximum operating voltage (V)	690	600	500	440
Insulation voltage (V)	1000	800	700	600
Power frequency withstand voltage (V)	2000	1500	1000	800

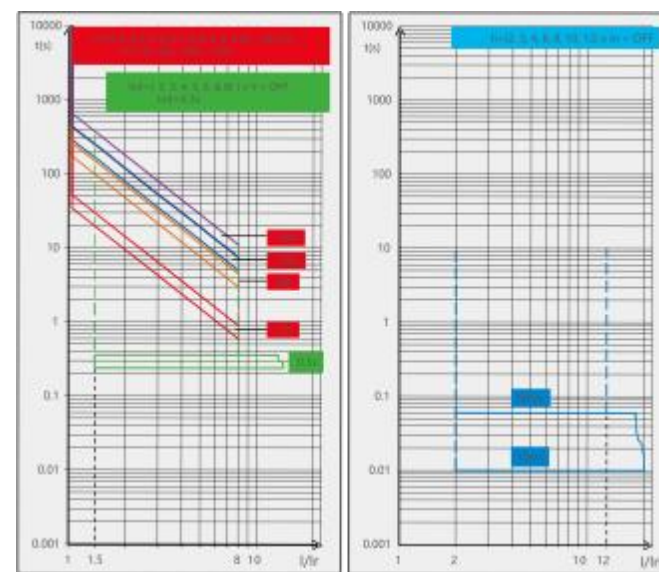
- Trip curve

CDM3E (125~800A)



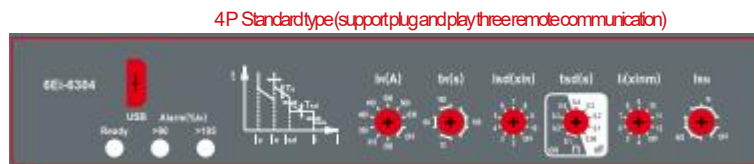
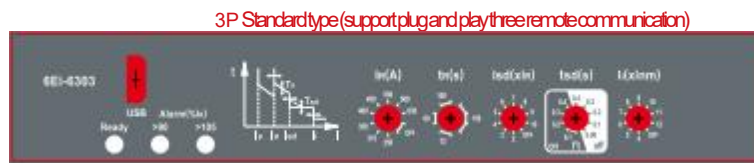
CDM3E (1250-1600AF)

The black line is for distribution protection, and the red line is for motor protection.



■ Functions and features of controllers 800 and below

CDM3E-125~800



I_R : Overload long delay setting current

I_{sd}: Short circuit short delay setting current

- li: Short circuit instantaneous setting current

Ready: Running light

>90%I_R: Pre-warning light



: LSI Three protection curves

t_R : Overload long delay setting time

tsd: Short-circuit short delay setting time

I_{RN} : Neutral pole setting protection

Alarm: Alarm indication

$>105\%I_R$: Overload warning light

USB: Data interface

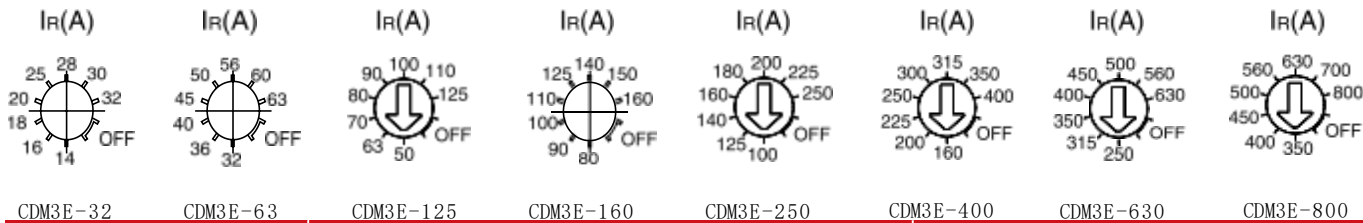
Distribution protection and motor protection use the same controller

Note: For more information, please see the official website of Delixi Electric (<http://www.delixi-electric.com/>), you can download the CDM3E series manual free of charge.

1) Overload long delay setting current IR

Adjust the knob of IR gear, you can select different current gear under the shell frame of the product to meet the needs of different lines for rated working current.The following is the IR adjustment knob data diagram of different current case frames.

The table lists all overload long delay setting current values of each current frame of CDM3E series.



Product model	Long delay overcurrent protection characteristic parameter setting IR (A)	Reserve note
CDM3E-125 32A	14、16、18、20、25、28、30、32	OFF
CDM3E-125 63A	32、36、40、45、50、56、60、63	OFF 表示关闭
CDM3E-125 125A	50、63、70、80、90、100、110、125	OFF 表示关闭
CDM3E-250 160A	80、90、100、110、125、140、150、160	OFF 表示关闭
CDM3E-250 250A	100、125、140、160、180、200、225、250	OFF 表示关闭
CDM3E-400 400A	160、200、225、250、300、315、350、400	OFF 表示关闭
CDM3E-630 630A	250、315、350、400、450、500、560、630	three protection modes: OFF 表示关闭
CDM3E-800 800A	350、400、450、500、560、630、700、800	OFF 表示关闭

2) Overload long delay setting time tR

When the fault current of the line is 1.5IR, 2IR, 6IR respectively, the operation time corresponding to the overload long delay of different gears is as follows:

Actual line current	Different gear operation time tR (s), accuracy ±10%, t = (2IR / I) 2 × tR				
	12	60	80	100	150
1.5I _R	21.3	106.7	142.2	177.8	266.7
2I _R	12	60	80	100	150
6I _R	1.33	6.67	8.89	11.11	16.67

Taking CDM3E-400 shell frame product as an example, how to set the overload long delay setting current and setting time? If IR selects 300, tR selects 60. When the overload current of the line is 1.5IR (450A), the overload operation time range is 106.7±10.67s. When the overload current of the line is 2IR (600A), the overload operation time range is 60±6s. When the overload current of the line is 6IR (1800A), the overload operation time range is 6.67±0.667s. And so on for the other gears.

3) Short circuit short delay setting current I_{sd}

The selection gear of short-circuit short-delay setting current I_{sd} is: 2、3、4、5、6、7、8、9、10、OFF.

5- || -9

4) Short-circuit short delay setting time tsd

Short delay protection is used to ensure a selective fit with the next circuit breaker, with two modes of "I2t ON" (inverse time or fixed time) and "I2t OFF" (fixed time). The following table is the time value of short-time trip time tsd. t = (8I_{sd}/I) 2 x tsd

I ₂ t ON (inverse time @8I _{sd})	Set time tsd (s)	—	0.1	0.2	0.3	0.4
	>8I _{sd} delay time (s)	—	0.1	0.2	0.3	0.4
I ₂ t OFF (fixed time)	Set time tsd (s)	0.06	0.1	0.2	0.3	0.4
	Time of return (ms)	20	80	140	230	350
	Maximum break time (ms)	100	140	220	320	500

Taking CDM3E-250 shell frame product as an example, how to set the short circuit short delay inverse time setting time. If IR is 200, I_{sd} is 2xIR, tsd is I2t ON, and tsd is 0.2

of the line is 2xIR (400A), the short circuit delay action time range is 3.2s.

Note: When IR=OFF, the short-circuit short-delay action current I_{sd} matches I_{nm}.

5) Short Circuit instantaneous Setting current Ii(×I_{nm})

Short circuit instantaneous setting current	CDM3E-125/250/400/630/800	(4、5、6、7、8、9、10、11、12、OFF) × I _{nm}
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6) Neutral pole setting Protection IRN (×IR/I_{nm})

The setting current IRN value is the selected gear x IR/I_{nm}. Neutral line protection is designed for quadrapole circuit breakers

- OFF: Disable neutral line protection when neutral line protection is not required for the power distribution system.
- N/2: It is used in a power distribution system where the cross-sectional area of the neutral conductor is equal to half of the phase line. In this case, the long delay and short delay of the neutral line are equal to 1/2 of the phase line protection setting value.
- N: It is used in a distribution system where the cross-sectional area of the neutral conductor is equal to that of the phase line, and the long delay, short delay, and instantaneous setting values of the neutral line are equal to the protection setting values of the phase line.

Note: When IR is OFF, the controller automatically uses I_{nm} as the reference current for neutral line protection.

7) Indication of the operating status of the controller

The working status of the operation indicator (Ready) and Alarm indicator (Alarm) is shown in the following table:

Circuit breaker operating condition	Ready	Alarm		
	green	yellow	red	
normal	twinkle	quench	quench	$I < 0.9 I_k$
Pre-alarm	twinkle	twinkle	quench	$0.9 I_k \leq I \leq I_k$
Alarm does not trip	twinkle	Long bright	twinkle	$1.05 I_k < I$
trip	Quench	quench	quench	$1.05 I_k < I$

Note: 1.I indicates the main circuit current, IR indicates the overload long delay setting current value;
2.When the yellow indicator blinks, it indicates that the overload long delay is enabled on the intelligent controller. During this process, the parameter setting of the controller panel is invalid.

8) Use of USB data interface

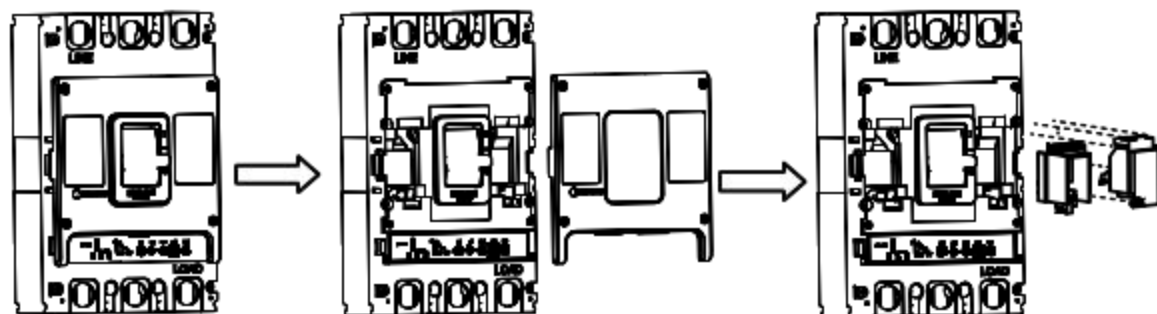
USB data interface can be used to use the Android system and support the mobile phone with the OTG function through the OTG data cable interconnection, to achieve telemetry, remote adjustment functions.

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■ Electrical accessories installation can be installed

Installation diagram of internal accessories



- First, take the lower cover, clamp the accessories to be installed into the left and right accessories of the middle cover, and press tightly. Cover the top, tighten the screws, and the attachment is ready.
- The left and right attachment cavities can be installed with one attachment at the same time.
- The internal accessories are divided into shunt release device, undervoltage release device, auxiliary contact, alarm contact and auxiliary contact.

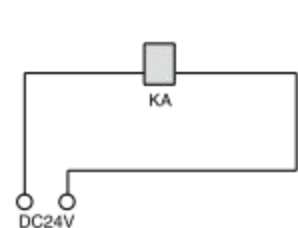
Wiring diagram of internal accessories



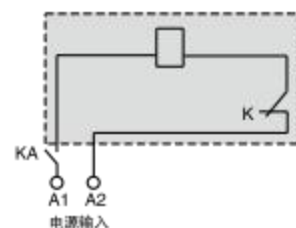
Undervoltage release Shunt release Alarm contact Auxiliary contact
When the rated power supply voltage of the shunt trip is DC24V, the maximum length of the copper wire shall not exceed the requirements of the following table:

	Shunt release	Alarm contact	Auxiliary contact
100%Us	150m	250m	
80%Us	100m	160m	

If the above table does not meet the requirements, it is recommended to use the following figure to design the shunt trip control loop:



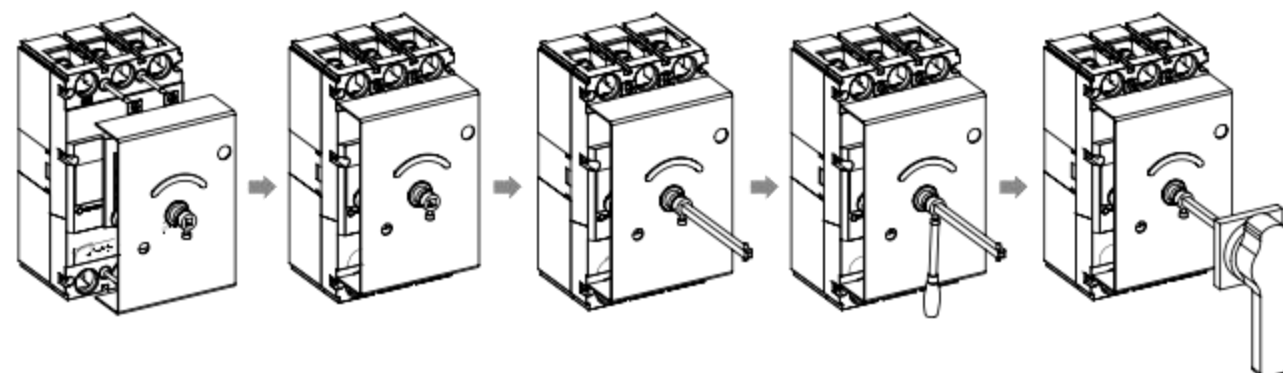
KA: is a DC24V intermediate relay with a shock current capacity of 1A



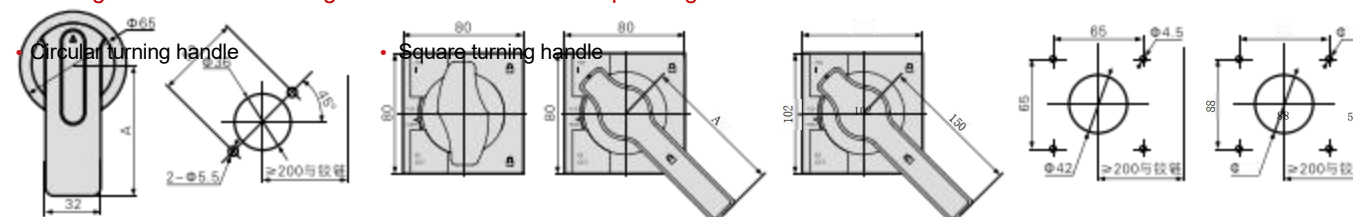
Voltage specifications at the power input:
AC50Hz 230V、400V；DC110V、220V

■ 800A and less external accessories installed

installation diagram of manual operation mechanism



Rotating handle and mounting dimensions of the hand operating mechanism



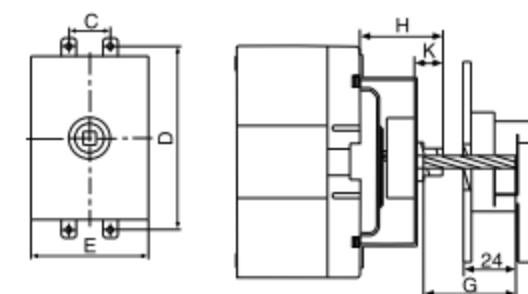
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CDM3E-125/250 CDM3E-400/630/800 CDM3E-1250s~1600s CDM3E-125~800 CDM3E-1250s~1600s

Round handle size A, CDM3E-125/250 is 65 or 95 optional, default is 65. The CDM3E-400/630/800 can be 95 or 125. The default value is 95.

Installation dimensions of the hand operating mechanism

Product model	C	D	E	H	K
CDM3E-125/250	35	143	100	49	20
CDM3E-400/630	44	215	140	76	20
CDM3E-800	70	243	210	76	20
CDM3E-1250s/1600s	70	320	193	116	20



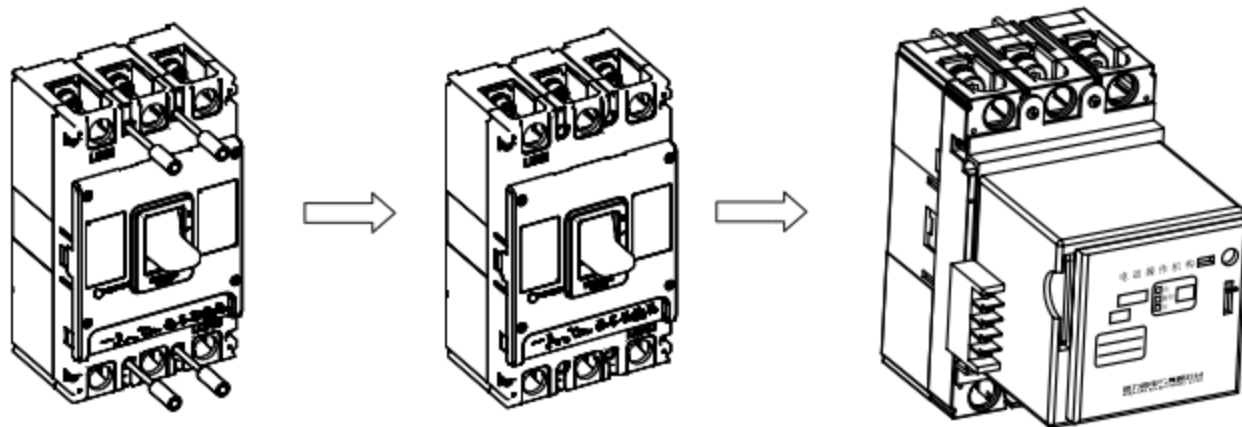
Note: 1) The direct hand operation of the connecting rod at G is 40mm, and the extended hand operation is 150mm, if you need special customization, please contact the manufacturer.

2) If you need to operate the dial or USB interface, you need a professional to take down your hands and operate it.

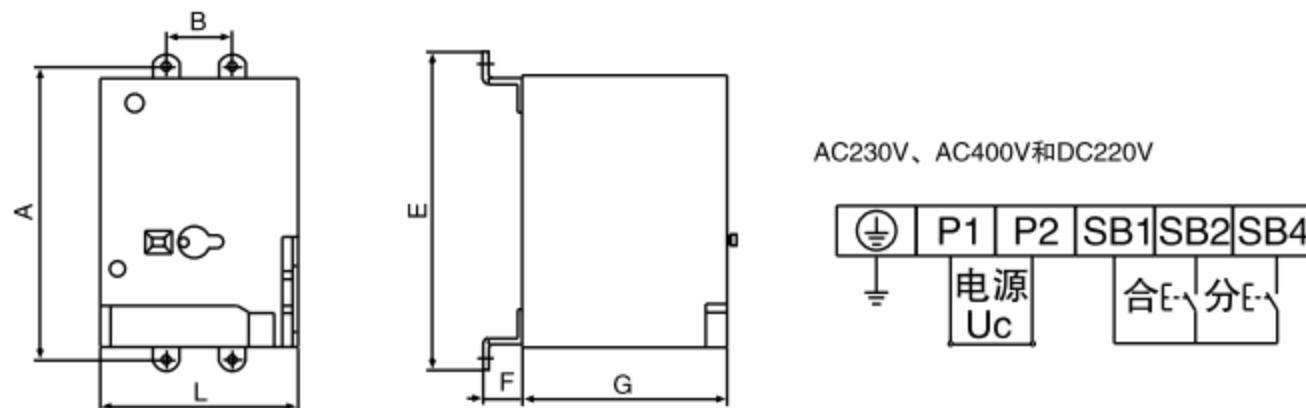
3) The operation of the installed rotating handle should be flexible, and the circuit breaker should be opened when the handle is horizontal, and the circuit breaker should be closed when the handle is in the vertical position.

800A and below electric operation mechanism

Installation diagram of electric operation mechanism



Electric operation mechanism installation dimensions and electrical wiring diagram



Product model	A	B	L	E	F	G
CDM3E-125/250	126	35	90.5	140	12	77
CDM3E-400/630	215	44	130	232	32	115
CDM3E-800	243	70	130	260	31	115
CDM3E-1250s/1600s	319	70	130	337	18	116

Note: 1) After the circuit breaker trip of the live operating mechanism is tripped, the electric operating mechanism must be opened before it can be closed.
2) The circuit breaker can be remotely controlled through electrical operation. If you need to operate the dip dial or USB interface, you need to remove the electrical operation by professional personnel.

Communication Backpack (for 800A and below)

- Backpack can achieve "three remote" or "four remote" function
- Backpack power AC 230/400V adaptive
- HMI door indicator interface, which can be connected to the door monitor by RJ45 interface
- Backpack can realize passive shunt function, no additional shunt accessories need to be installed



Communication type

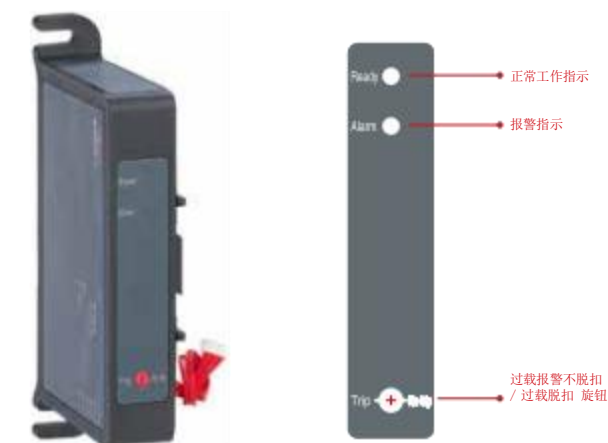
		1	PE	6	
Electrical Connection	S1	2	Power input	P1	8
	S2		Power input	P2	10
	S4	3			
Auxiliary passive output	N0	11	Auxiliary passive input	NO (F12)	18
	NC	12	Auxiliary passive input	NC (F14)	19
	COM	13		COM (F11)	20
Alarm passive output	A1	14	Alarm passive input	A1 (B14)	21
	A2	15	Alarm passive input	A2 (B11)	22
Shunt passive input	Trip1	16	485 Communication interface	A	23
	Trip2	17	485 Communication interface	B	24

Overload alarm non-trip/overload trip backpack

- Backpack can realize overload alarm without tripping function
- Overload alarm non-trip/overload trip can be switched by knob selection
- Backpack power supply DC24V and AC230V/400V
- The backpack can realize the alarm signal output without the need to install additional alarm contact accessories

Overload alarm tripping or non-tripping type

Interface name	Terminal coding	Terminal number
Power input	+	1
	-	2
	COM	4
Alarm	No	5
passive output	Nc	6



Note: When choosing DC24V, configure the power conversion module by yourself. Delixi also optional power conversion module.

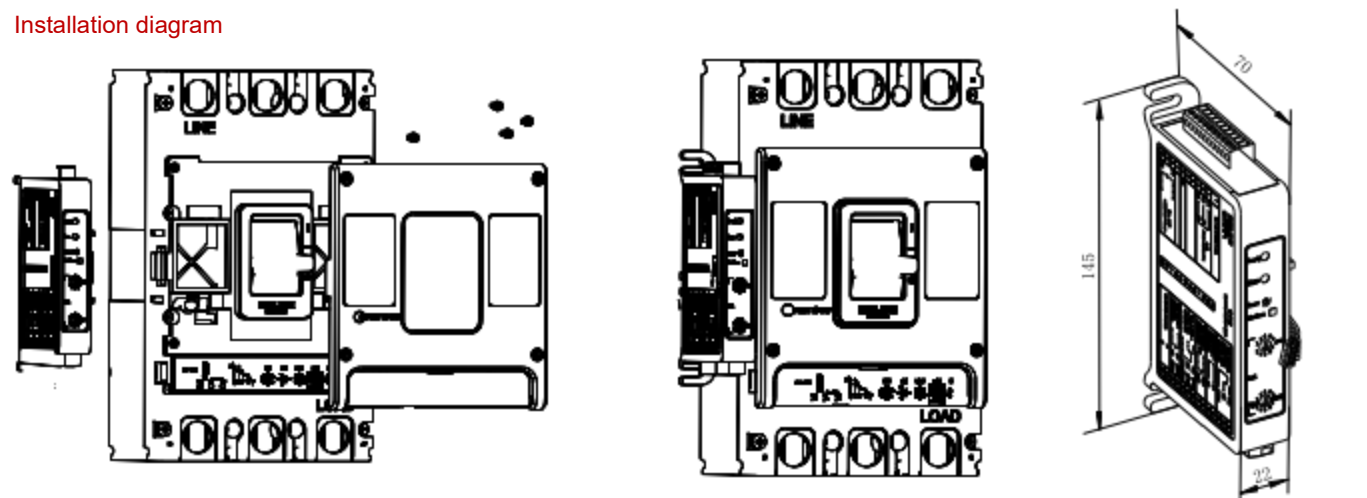
■ Installation and dimensions of communication modules and alarm non-trip modules

The installation of communication module and alarm non-trip module is shown in the following installation diagram:

- 1) Unscrew the cover screw and open the cover
- 2) Remove the left strip to expose the circuit breaker and module access
- 3) Connect the terminal of the module to the access inlet on the left side of the circuit breaker, and then clamp the right "V" convex of the module into the "V" groove on the left side of the circuit breaker
- 4) Reinstall the lid. The effect after installation is shown in the following installation effect drawing

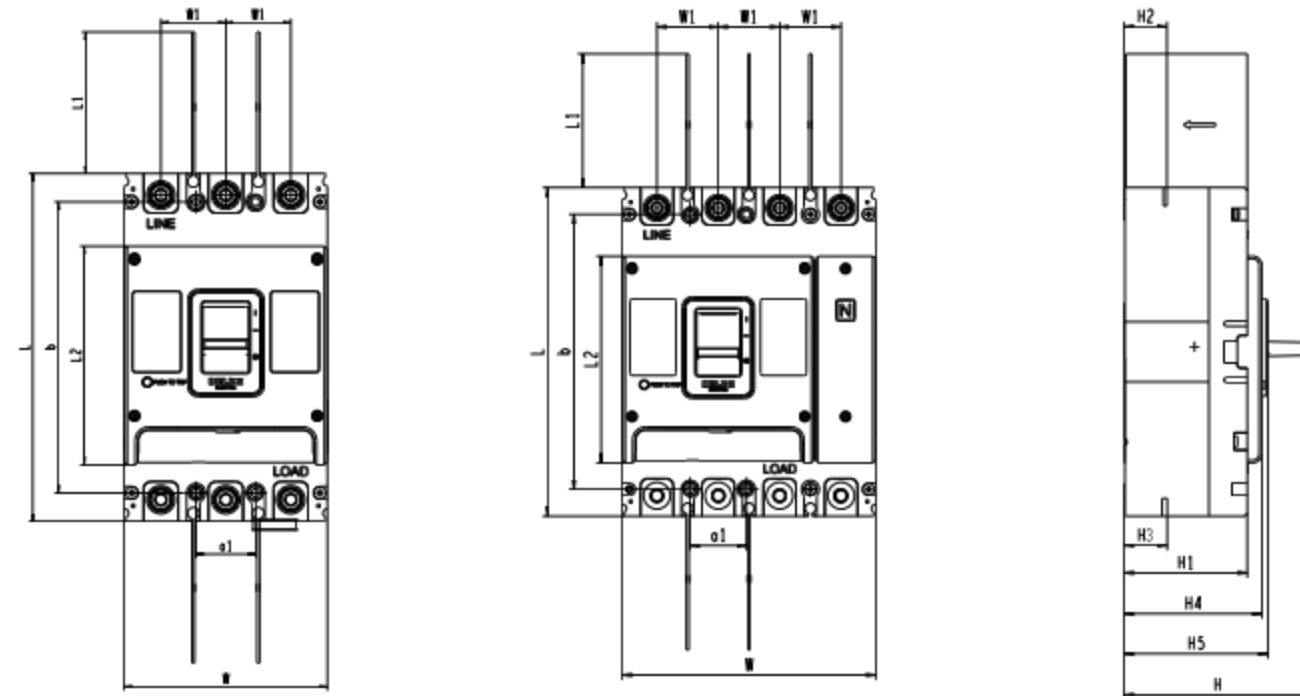
The dimensions of the communication module and the alarm non-trip module are the same, see the dimensions diagram below (unit: mm)

Installation diagram



Module Type	Width (mm)	Height (mm)	Terminal Spacing (mm)
125/250	175.5	89	ST2.9*10
400	269	99.5	ST2.9*10
630/800	292	106	ST3.5*10

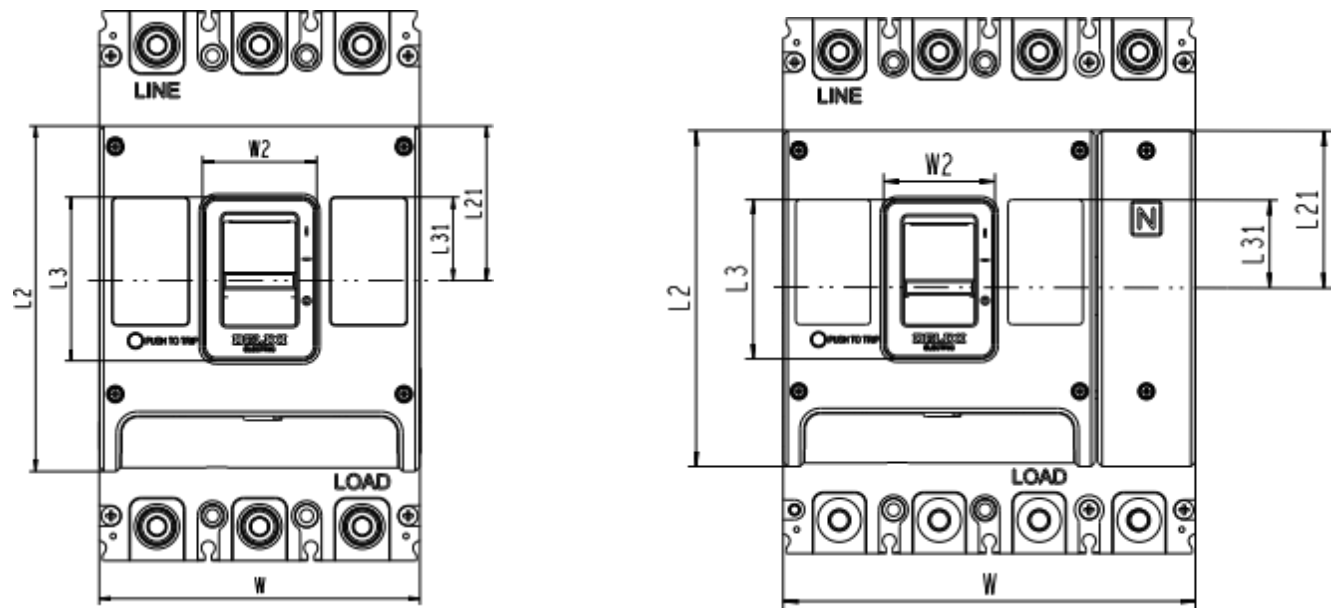
■ 800A and below



Model	Terminals	Width (mm)	Height (mm)	Terminal Spacing (mm)	Terminal Width (mm)	Terminal Height (mm)	Terminal Pitch (mm)	Terminal Spacing (mm)	Terminal Width (mm)	Terminal Height (mm)	Terminal Pitch (mm)	Terminal Spacing (mm)	Terminal Width (mm)	Terminal Height (mm)	Terminal Pitch (mm)
CDM3E-125	3	165	80	102.5	107	35	112.5	86	21.5	23	94	95.5	35	35	126
	4				142										
CDM3E-250	3	165	80	102.5	107	35	112.5	86	23	23	94	95.5	35	35	126
	4				142										
CDM3E-400	3	257	104.5	161.5	150	48	145.9	96.2	36.5	37	107.5	112.2	44	-	215
	4				198										
CDM3E-630	3	257	104.5	161.5	150	48	145.9	96.2	38.5	39.5	107.5	112.2	44	-	215
	4				198										
CDM3E-800	3	280	104.5	170	210	70	154	103	40.5	47	116	121	70	70	243
	4				280										



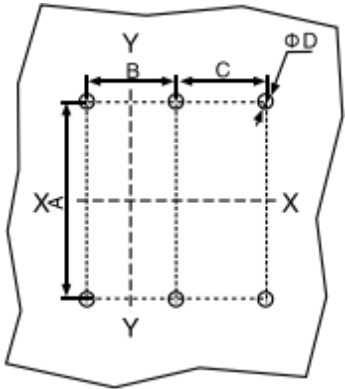
■ Drawing of opening size for product panel of 800A and below



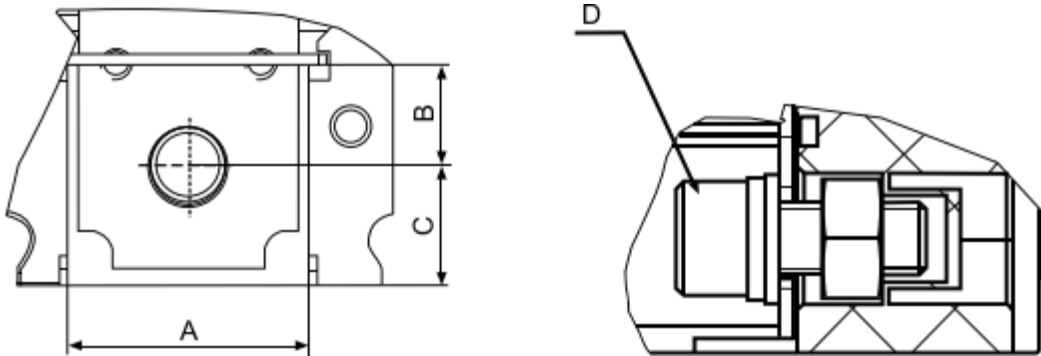
Product model	Number of poles	Expose the panel and flip the handle			Only the toggle handle is exposed		
		W	L2	L21	W2	L3	L31
CDM3E-125	3	107	102.5	51	26	50.5	26.5
	4	142					
CDM3E-250	3	107	102.5	51	26	50.5	26.5
	4	142					
CDM3E-400	3	150	161.5	75	52.5	75.5	41
	4	198					
CDM3E-630	3	150	161.5	75	52.5	75.5	41
	4	198					
CDM3E-800	3	210	170	67.5	55	85	42.5
	4	280					

■ Size drawing of mounting hole in front of fixed plate 800A and below

Product model	number	A	B	C	φD
CDM3E-125	3	126	35	—	5.5
	4			35	
CDM3E-250	3	126	35	—	5.5
	4			35	
CDM3E-400	3	215	44	—	6.5
	4			—	
CDM3E-630	3	215	44	—	6.5
	4			—	
CDM3E-800	3	243	70	—	7.5
	4			70	

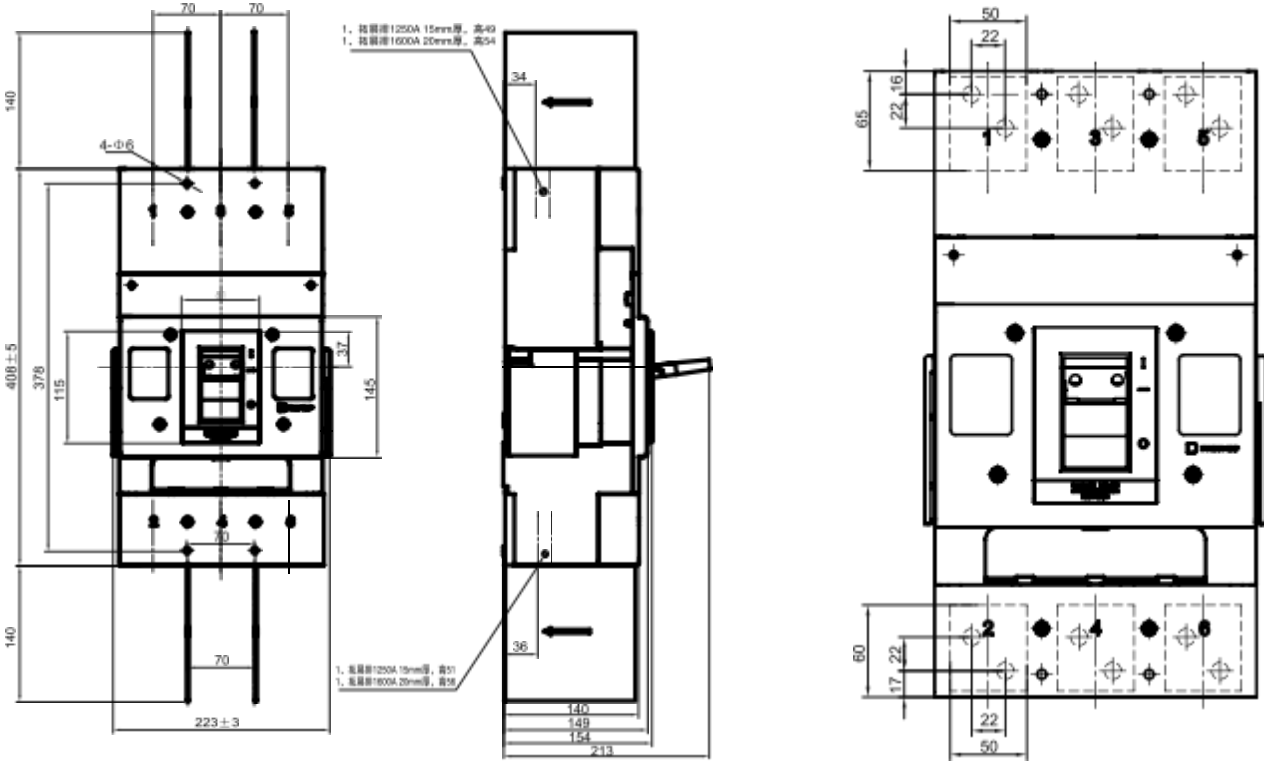


Note:X-X, Y-Y is the three-pole circuit breaker center.



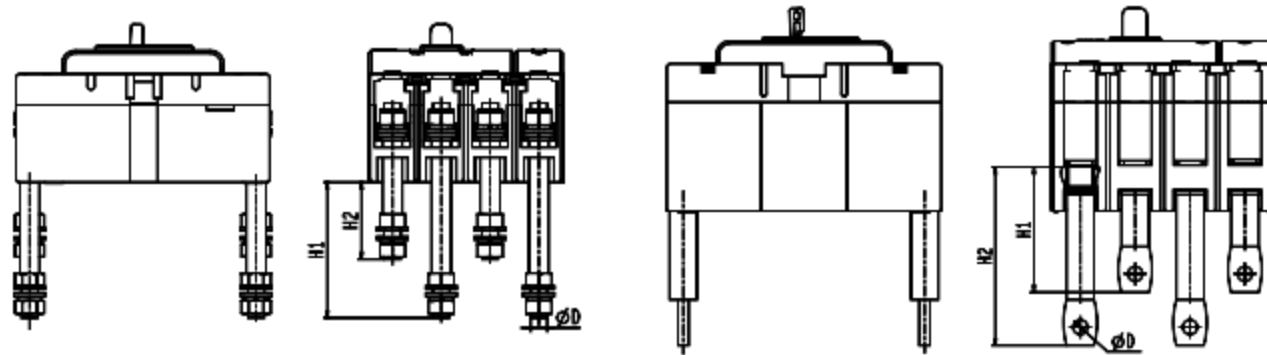
Product model	A	B	C	D
CDM3E-125	25.5	12	10	M8x20
CDM3E-250	25.5	12	10	M8x20
CDM3E-400	32	13	16	M10×25
CDM3E-630	32	13	16	M10×35
CDM3E-800	45.5	16.8	18.5	M12×35

■ 1250~1600A



■ 800A and below fixed plate back

Installation size diagram of fixed plate rear wiring accessories



CDM3E-125/250

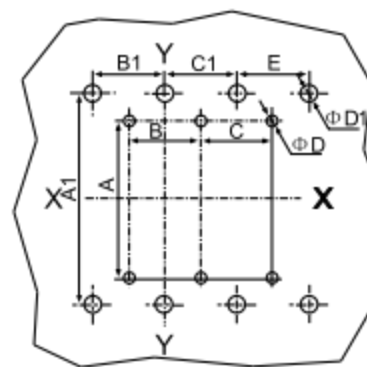
CDM3E-400/630/800

Note: The factory configuration is horizontal wiring, and the customer can loosen it and rotate it by 90° to become vertical wiring.

Product model	No.	A	B	C	ΦD	A1	B1	C1	E
CDM3E-125/250	3	126	35	—	5.5	145	35	35	15
CDM3E-400/630	3	215	44	—	6.5	225	48	48	32
CDM3E-800	3	243	70	—	7.5	243	70	70	40

Fixed plate rear mounting hole size diagram

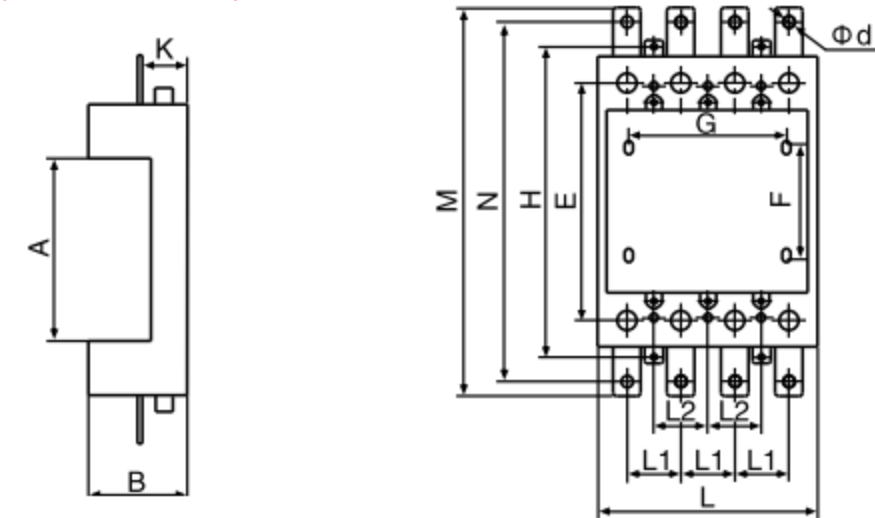
Product model	No.	A	B	C	ΦD	A1	B1	C1	E
CDM3E-125/250	3	126	35	—	5.5	145	35	35	15
CDM3E-400/630	3	215	44	—	6.5	225	48	48	32
CDM3E-800	3	243	70	—	7.5	243	70	70	40



Note: X-X, Y-Y are three pole circuit breaker centers

■ 800A and below insert plate front

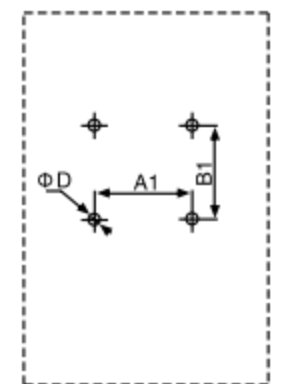
Insert plate front wiring attachment mounting dimensions



Product model	No.	A	B	C	ΦD	A1	B1	C1	E
CDM3E-125/250	3	108.5	73.2	144	74	70	191	105	35
CDM3E-400/630	3	215	44	—	6.5	225	48	48	32
CDM3E-800	3	243	70	—	7.5	243	70	70	40

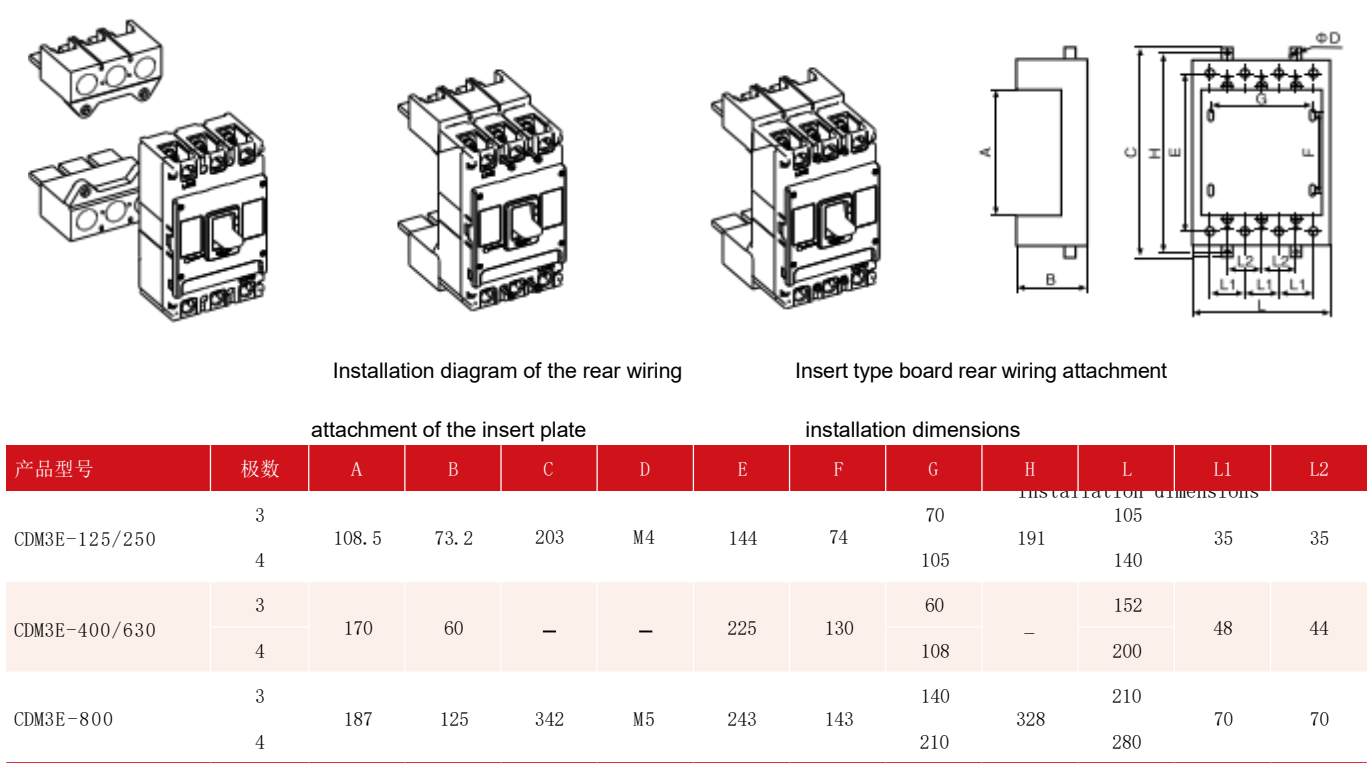
Insert plate front wiring installation hole size diagram

Product model	No.	A1	B1	ΦD
CDM3E-125/250	3	35	150	5
CDM3E-400/630	3	44	150	5
CDM3E-800	3	70	150	5



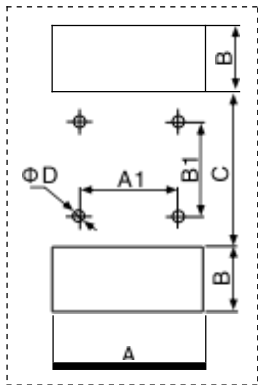
■ 800A and below behind the insert plate

Insert type board rear wiring attachment installation dimensions



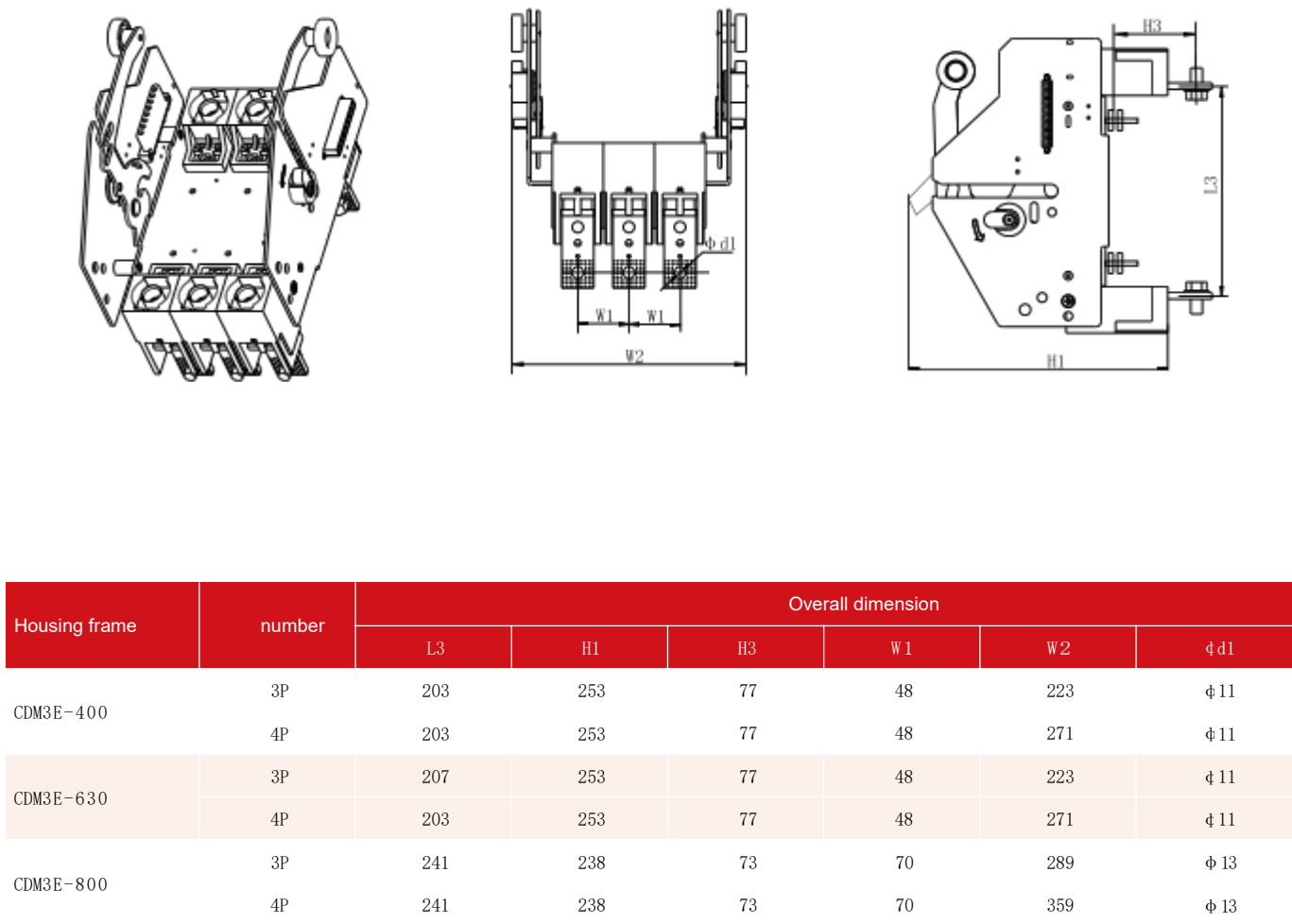
Dimensions of mounting holes for insert plate rear accessories

产品型号	极数	A	A1	B	B1	C	ΦD
CDM3E-125/250	3	110	70	45	74	100	6.5
	4	145	105				
CDM3E-400/630	3	152	88	60	145	170	8.5
	4	200	132				
CDM3E-800	3	212	140	64	143	185	11
	4	282	210				



■ 800A and below pull out type plate back

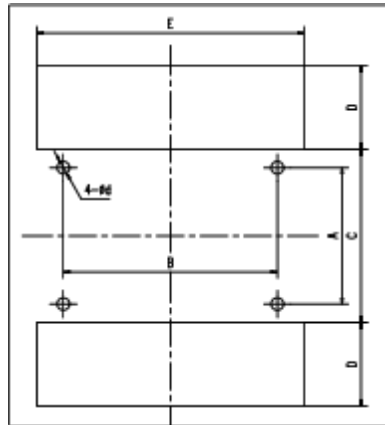
Installation size drawing of withdrawable board rear wiring accessories



Housing frame	Board rear outlet hole size							
	A	B		C	D	E		d
		3P	4P			3P	4P	
CDM3E-400	140	96	144	178	47	147	195	7
CDM3E-630	140	96	144	178	47	147	195	7
CDM3E-800	131	140	210	170	77	213	283	7

Note: 1.630 shell frame extraction capacity reduction for 500A use.

2. If there are special remarks, the extra type is not equipped with electrical interlocking function.



800A and below product connection

1 Product wiring precautions

- The wiring must be carried out by professionally qualified personnel
- Before connecting the circuit breaker, ensure that the input power is completely disconnected
- The circuit breaker must be installed before the wiring operation
- The circuit breaker must be in accordance with the wiring sequence of up and down, that is, "LINE" is the upper line end (power side), "LOAD" is the lower line end (load side), and it is forbidden to reverse the wiring direction

2 Selection of standard connection wires

The cross-sectional area of the connecting wire and the corresponding product shell current are shown in the following table:

Product model	Cable cross-sectional area (mm ²)	quantity
CDM3E-125	50	1
CDM3E-250	120	1
CDM3E-400	240	1
CDM3E-630	185	2
CDM3E-800	240	2

Note: If the external connection is copper, it is necessary to transfer the expansion terminal.

CDM3E Extension terminal

The extension terminal is connected to the standard terminal of the circuit breaker, thus providing a variety of wiring solutions in a small space: The extension terminal can be connected to the incoming or outgoing end of the circuit breaker.

model	number	Reference picture	size
CDM3E-125	3P		
	4P		
CDM3E-250	3P		
	4P		

model	number	Reference picture	size
CDM3E-400 CDM3E-630 400A and below	3P		
	4P		
CDM3E-630 400A and above	3P		
	4P		
CDM3E-800	3P		
	4P		

(400/500/630A) (700/800A)

Core material order number

Material code	Product description	Material code	Product description
M3E125M1253300	CDM3E-125M 3300 125A	M3E125M1253300N	CDM3E-125M 3300 125A 过报 DC
M3E250M2503300	CDM3E-250M 3300 250A	M3E250M2503300N	CDM3E-250M 3300 250A 过报 DC
M3E400M4003300	CDM3E-400M 3300 400A	M3E400M4003300N	CDM3E-400M 3300 400A 过报 DC
M3E630M6303300	CDM3E-630M 3300 630A	M3E630M6303300I	CDM3E-630M 3300 630A 过报 AC
M3E800M8003300	CDM3E-800M 3300 800A	M3E800M8003300I	CDM3E-800M 3300 800A 过报 AC
M3E1250M3300	CDM3E-1250M 3300	M3E125M1253300T8	CDM3E-125M 3300 125A 4 遥 AC230V
M3E1250H3300	CDM3E-1250H 3300	M3E250M2503300T8	CDM3E-250M 3300 250A 4 遥 AC230V
M3E1600M3300	CDM3E-1600M 3300	M3E400M4003300T8	CDM3E-400M 3300 400A 4 遥 AC230V
M3E1600H3300	CDM3E-1600H 3300	M3E630M6303300T8	CDM3E-630M 3300 630A 4 遥 AC230V
M3E125M125C300	CDM3E-125M 4300C 125A	M3E800M8003300T8	CDM3E-800M 3300 800A 4 遥 AC230V
M3E250M250C300	CDM3E-250M 4300C 250A	M3E125M1253300TB	CDM3E-125M 3300 125A 4 遥 AC400V
M3E400M400C300	CDM3E-400M 4300C 400A	M3E250M2503300TB	CDM3E-250M 3300 250A 4 遥 AC400V
M3E630M630D300	CDM3E-630M 4300D 630A	M3E400M4003300TB	CDM3E-400M 3300 400A 4 遥 AC400V
M3E800M800D300	CDM3E-800M 4300D 800A	M3E630M6303300TB	CDM3E-630M 3300 630A 4 遥 AC400V
M3E1250SH3300	CDM3E-1250SH 3300	M3E800M8003300TB	CDM3E-800M 3300 800A 4 遥 AC400V
M3E1250SM3300	CDM3E-1250SM 3300		

