Product Features

Compliant standard

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

Pollution level

The CDM6I series of products run at level 3 in pollution level,

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

Anti-wet,heat capacity

Dry cold, dry heat, damp heat

Ambient temperature

- The upper limit of the surrounding air temperature is +70 ° C, and the lower limit is -40 ° C; the average temperature of the 24h does not exceed 35 °

(Note: Use within the range of -40 ° C ~ -25 ° C,+40 ° C ~+70 ° C. Please contact the manufacturer or see the decreasing coefficient table)

- The storage temperature is -40 ° C to 70 ° C.

altitude

- The altitude of the normal installation location does not exceed 2000m.
- If you need to be installed at an altitude of more than 2000m, you must consider the changes in the strength of the dielectric and the decline in air temperature. You can refer to the use of altitude decrease coefficient tables, or please contact us.

humidity

Need to be meet when working normally：

- Under the condition of +40 ° C, the relative humidity of the atmosphere cannot exceed 50%. If the temperature is low, it can be used under higher relative humidity conditions.
- The monthly average relative humidity of the most wet month is 90%.
- The impact of condensation generated by the product surface on product performance needs to be considered.

Relief contact instructions with isolation function

The CDM6I series molded case circuit breakers as per the isolation defined in IEC standard 60947-2 •

isolation position corresponding to O (OFF) position

- Only when the contact is really open, the operating handle can indicate the "OFF" position
- The rotating handle or electrical operation mechanism will not change the reliability of contact indicating system

After testing, the isolation function must be guaranteed:

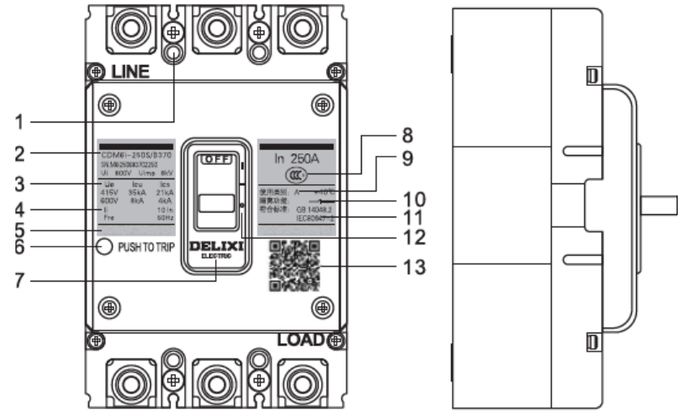
- The mechanical reliability of contact indicating system
- No leakage electric current
- There is a certain overvoltage withstand capacity between entry terminals and outline terminals

Protection level

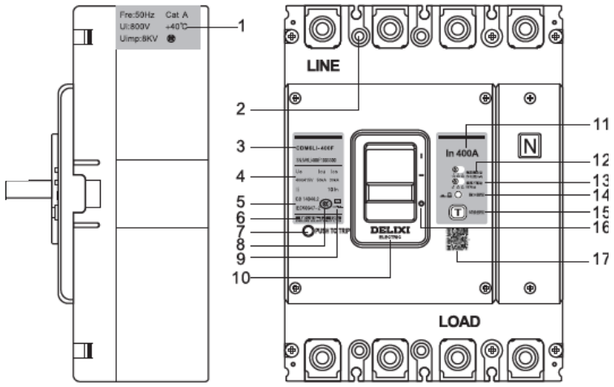
- circuit breaker body, IP protection level is IP20
- circuit breaker installed in the switchgear：circuit breaker with handle：IP40

circuit breaker with electric operation mechanism：IP40

Nameplate introduction



1	mounting holes	6	Test button	11	compliant standards
2	product name	7	Manufacturer trademark	12	close、trip、open
3	technical parameter	8	Certification	13	QR code
4	breaking capacity	9	Using type		
5	Manufacturer name	10	circuit breaker with isolation function		



1	technical parameter	7	trip button	13	Limit without driving time
2	mounting holes	8	Certification	14	Leakage indicating button
3	type	9	circuit breaker with isolation function	15	Leakage test button
4	breaking capacity	10	Manufacturer trademark	16	close、trip、open
5	compliant standards	11	rated current	17	QR code
6	Manufacturer name	12	rated residual action current		

technical parameter										
shell frame current		CDM6i-63		CDM6i-100			CDM6i-125	CDM6i-160		
rated voltage Ue(V)		400/415		400/415/690			400/415	400/415/690		
rated insulation voltage Ui(V)		800		800			800	800		
rated impulse withstand voltage Uimp(KV)		8		8			8	8		
rated current In(A)		10-63		10-100		16-100	10-125	100-160		
poles (4P-A/B type)		3/4		3/4		3	3/4	3/4		
frequency(HZ)		50/60		50/60			50/60	50/60		
		L	M	L	M	S	L	L	M	S
rated ultimate short -circuit breaking capacity Icu（KA）	AC 400/415V	35	50	35	50	70	35	35	50	70
	AC 690V	-	-	-	8	-	-	8	8	-
rated operating short -circuit breaking capacity Ics（KA）	AC 400/415V	25	30	25	35	50	21	25	35	50
	AC 690V	-	-	-	8	-	-	4	8	-
Mechanical life	with Maintenance	40000		40000			40000	40000		
	without Maintenance	20000		20000			20000	20000		
Electrical life	AC 415V	8000		8000			8000	8000		
protection type	Power distribution protection	■		■			■	■		
	motor protection	■		■			■	■		
tripping method	thermomagnetic tripping	■		■			■	■		
	magnetic tripping	■		■			■	■		
connection method	fixed front connection	■		■			■	■		
	fixed rear connection	■		■			■	■		
	plug in front connection	■		■			■	■		
	plug in rear connection	■		■			■	■		
	draw out type	-		-			-	-		
accessory	undervoltage release MN	■		■			■	■		
	shunt release MX	■		■			■	■		
	alarm contacts AL	■		■			■	■		
	auxiliary contacts（one open one close）	■		■			■	■		
	auxiliary contacts（two open two close）	■		■			■	■		
	expand terminal	■		■			■	■		
	DC/AC electric operation mechanism	■		■			■	■		
	round manual operation mechanism	■		■			■	■		
	square manual operation mechanism	■		■			■	■		
	round extend rotation handle	■		■			■	■		
	square extend rotation handle	■		■			■	■		
	interval partition	■		■			■	■		
derive product	overload alarm without tripping	-		-	■	■	-	-	■	■
accessory modular installation		■		■			■	■		
Isolation function		■		■			■	■		
Using type		A type		A type			A type	A type		
Certification		CCC/CE		CCC/CE			CCC/CE	CCC/CE		
Size-connection before fixed W*H)*D	3P (mm)	75*130*68		75*130*68	92*150*93.5		75*130*68	107*165*76	107*165*94	
	4P (mm)	100*130*68		100*130*68	122*150*93.5		100*130*68	142*165*76	142*165*94	

noted：
• CDM6I-63/100/125AF, below 40A, start protection with minimum 400A; 40A or more, start protection with 10/12In.
• 4 Poles Product N Phase is divided into two types: A, B ：
A type：N pole does not install the overload current tripping component, and the N pole is always connected, not close or open with other three poles
B type：N pole does not install the overload current tripping component, and the N pole is close and open with other three poles(n pole first close then open)

CDM6i-250			CDM6i-400			CDM6i-630			CDM6i-800		
400/415/690			400/415/690			400/415/690			400/690		
800			800			800			800		
8			8			8			8		
100--250			200-400			400/500/630			630--800		
3/4			3/4		3	3/4		3	3/4		3
50/60			50/60			50/60			50/60		
L	M	S	L	M	H	L	M	H	L	M	H
35	50	70	50	70	100	50	70	100	50	70	100
8	8	-	8	10	-	8	10	-	-	30	-
25	35	50	35	50	75	35	50	75	35	50	75
4	8	-	5	10	-	5	10	-	-	20	-
40000			20000			20000			20000		
20000			10000			10000			10000		
8000			7500			7500			7500		
■			■			■			■		
■			■			■			-		
■			■			■			■		
■			■			■			■		
■			■			■			■		
■			■			■			■		
■			-			-			-		
■			■			■			■		
■			■			■			■		
■			■			■			■		
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■			■			■			■		
■			■			■			■		
■			■			■			■		
■			■			■			■		
-	■	■	-			-			-		
■			■			■			-		
■			■			■			■		
A type			A type			A type			A type		
CCC/CE			CCC/CE			CCC/CE			CCC/CE		
107*165*76	107*165*94		150*257*107.5			150*257*107.5			210*280*100		
142*165*76	142*165*94		198*257*107.5			198*257*107.5			280*280*100		

Basic parameters								
		CDM6Li-125			CDM6Li-160			
rated voltage Ue(V)		400/415			400/415			
rated current In(A)		16/20/25/32/40/50/63/80/100/125			100/125/140/160			
rated insulation voltage Ui(V)		800			800			
rated impulse withstand voltage Uimp(KV)		8			8			
Pole		3/4（A,B）			3/4（A,B）			
rated residual action current IΔn mA（Three -gear adjustment）	non-delay	30mA,100mA,300mA			30mA,100mA,300mA			
		100mA,300mA,500mA			100mA,300mA,500mA			
	delay	100mA,300mA,500mA			100mA,300mA,500mA			
rated residual no action current Ino mA		50% IΔn			50% IΔn			
non-delay：breaking time s		≤0.1			≤0.1			
Fixed delay：2IΔn ultimate no driving time s		0.1/0.2/0.3/0.4/0.5/1			0.1/0.2/0.3/0.4/0.5/1			
delay adjustment type：2IΔn ultimate no driving time s		Y1：0.1/0.2/0.3s			Y1：0.1/0.2/0.3s			
		Y2：0.4/0.5/1s			Y2：0.4/0.5/1s			
breaking capacity		C	L	M	C	L	M	
Icu (415V) 50Hz		25	35	50	25	35	50	
Ics (415V) 50Hz		15	25	35	15	25	35	
rated residual short -circuit connecting capacity IΔm(KA)		25% Icu	25% Icu		25% Icu	25% Icu		
mechanical life with maintenance		20000	40000		20000	40000		
mechanical life without maintenance		10000	20000		10000	20000		
electrical life 400V		4000	8000		4000	8000		
accessory modular installation		■			■			
Isolation function		■			■			
protection type		Power distribution protection			Power distribution protection			
		motor protection			motor protection			
tripping method		thermomagnetic tripping			thermomagnetic tripping			
connection								
fixed front connection		■			■			
fixed rear connection		■			■			
plug in rear connection		■			■			
size Dimension（mm）	3P	92x150x93.5			107*165*94			
	4P	122x150x93.5			142*165*94			
accessory								
shunt release		■			■			
alarm contacts		■			■			
auxiliary contacts（one open one close）		■			■			
auxiliary contacts（two open two close）		■			■			
Leakage alarm action module		■			■			
Leakage alarm no action module		■			■			
Expand terminal		■			■			
Electronic motor Operation mechanism CD2		■			■			
round manual operation mechanism		■			■			
round extend rotation handle		■			■			
square manual operation mechanism		■			■			
square extend rotation handle		■			■			
interval partition		■			■			
Certification		CCC/CE			CCC/CE			

noted：When the rated residual current IΔn is 30mA-100mA-300mA gear，its delay time can only be selectedas non-delay type

CDM6Li-250			CDM6Li-400		CDM6Li-630			
400/415			400/415		400			
100/125/140/160/180/200/225/250			200/225/250/315/350/400		400/500/630			
800			800		800			
8			8		8			
3/4（A,B）			3/4（A,B）		3/4（A,B）			
30mA,100mA,300mA			100mA,300mA,500mA		100mA,300mA,500mA			
100mA,300mA,500mA			300mA, 500mA, 1000mA		300mA, 500mA, 1000mA			
100mA,300mA,500mA			100mA,300mA,500mA		100mA,300mA,500mA			
			300mA, 500mA, 1000mA		300mA, 500mA, 1000mA			
50% IΔn			50% IΔn		50% IΔn			
≤0.1			≤0.1		≤0.1			
0.1/0.2/0.3/0.4/0.5/1			0.1/0.2/0.3/0.4/0.5/1		-			
Y1：0.1/0.2/0.3s			Y1：0.1/0.2/0.3s		Y3：0.1/0.3/0.5s			
Y2：0.4/0.5/1s			Y2：0.4/0.5/1s		/			
C	L	M	L	M	L	M		
25	35	50	50	70	50	70		
15	25	35	35	50	35	50		
25% Icu	25% Icu		25% Icu		25% Icu			
20000	40000		20000		20000			
10000	20000		10000		10000			
4000	8000		7500		7500			
■			■		■			
■			■		■			
Power distribution protection			Power distribution protection		配电保护			
motor protection			motor protection		/			
thermomagnetic tripping			thermomagnetic tripping		热磁脱扣			
■			■		■			
■			■		■			
■			■		■			
107*165*94			150*257*107.5		210*280*111			
142*165*94			198*257*107.5		280*280*111			
■			■		■			
■			■		■			
■			/		/			
■			■		■			
■			■		■			
■			■		■			
■			■		■			
■			■		■			
■			■		■			
■			■		■			
■			■		■			
■			■		■			
CCC/CE			CCC/CE		CCC/CE			