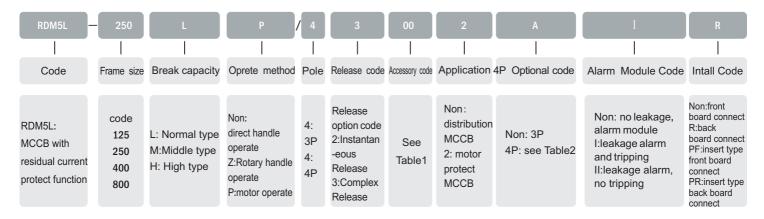
RDM5L series Residual Current Circuit Breaker

Introduction

RDM5L series residual current circuit breaker(RCCB) is mainly applied to power distribution network of AC50/60Hz, rated operated voltage up to 400V, rated operate current up to 800A. RCCB has indirect touch protection for human, and protect the device against the fire danger caused by insulation damage and grounding faults. And it also can distribute electrical energy, protect circuit and power-supply against overload and short-circuit, and also for transferring circuit and starting motor unfrequently.

Type selection

Standard: IEC60947-2 GB14048.2 and GB/Z6829.



For example: RDM5L-250MP/4310B II 225A 100mA ,0.4s,AC230V shunt release 100 PCS means that RDM4L-250, middle capacity M, Motor operate, 4P B type distribute protect MCCB, complex releae, with AC 230V shunt release, II type leakage alarm no tripining module, front board connect

Residual Current Time Set

Time set	Performance Characteristic									
0. 3s	Non-delay Performance Characteristic									
	Residual current	I Δ n	2l △ n	5I △ n	10l △ n					
	Max break time(s)	0. 3	0. 15	0. 04	0. 04					
0. 4s	Residual current	I Δ n	2l △ n	5I △ n	10l △ n					
	Max break time(s)	0.4	0.3	0.2	0.2					
	Limit non drive time (s)		0.1							
1.0s	Residual current	I △ n	2 I △ n	5I ∆ n	10l △ n					
	Max break time(s)	1.0	1.0	0.9	0.9					
	Limit non drive time (s)		0.5							

RDM5E series Moulded Case Circuit Breaker

Internal Accessory Code Table

□ Alarm Switch ■ Auxiliary Switch ● Shunt Release ○Under-voltage Release → Lead Direction Handle

| Handle | Ieft install | Right install | Right install | Ieft install |

Code	A	RDM5L-12	25/250	RDM5L-400、800			
	Accessory	3P, 4P A/D Type	4P B/C Type	3P, 4P A/D Type	4P B/C Type		
00	No internal accessory						
08	Alarm switch	←□	← □	← □	← □		
10	Shunt release	+•	+•	+●	+•		
20	Auxiliary switch(1NO1NC)	← ■	← ■				
20	Auxiliary switch(2NO2NC)			+	← ■		
30	Under-voltage release	+0	+0	+0	+0		
40	Shunt release+Auxiliary switch(1NO1NC)		+				
40	Shunt release+Auxiliary switch(2NO2NC)				+ ● ■ →		
50	Shunt release+Under-voltage release		+ 0 • +		+ ○ • →		
60	2 sets Auxiliary switch(2NO2NC)		+ +				
60	2 sets Auxiliary switch(4NO4NC)				+		
70	Under-voltage release+Auxiliary switch(1NO1NC)		+ 0 •				
70	Under-voltage release+Auxiliary switch(2NO2NC)				+ ○ □ →		
18	Shunt release+Alarm switch		+ 0 0 +		+□ ● →		
28	Auxiliary switch(1NO1NC)+Alarm switch	←	↓ □	+■□	+		
38	Under-voltage release+Alarm switch		+ 0 0 +		← ○ □ →		
48	Shunt release+Auxiliary switch(1NO1NC)+Alarm switch		◆ □ • •		←		
68	2 sets Auxiliary switch(2NO2NC)Alarm switch		← ■ ■ →		+ □ □ →		
78	Under-voltage release Auxiliary switch(1NO1NC)Alarm switch		+ ○ □ +		+ 0 0 +		

4P product code Table2

Code	Instruction
A Type	Neutral pole has no overcurrent release, and N pole is always connecting and do not break or close with the other three poles.
В Туре	Neutral pole has no overcurrent release, and N pole breaks and close with the other three poles together.(N pole closed first and break later)
C Type	Neutral pole has overcurrent release, and N pole breaks and close with the other three poles together.(N pole closed first and break later)
D Type	Neutral pole has overcurrent release, and N pole is always connecting and do not break or close with the other three poles.

RDM5L series Residual Current Circuit Breaker

Main Technical parameter

Frame size rated current Inm(A)		125		250			400			800			
Rated current In(A)		10、16、20、25、32、40 50、63、80、100、125		100、125、160、180 200、225、250		200、225、250、315 350、400		400、500、630、700 800					
Pole		3P、4P											
Rated frequency(Hz)							50、	60					
Rated insulation voltage Ui(V)		AC1000											
Rated impulse withstand voltage Uimp(V)		8000											
Rated operate voltage U	Je (V)						AC4	400					
Arc distance (mm)		≤50					≤100						
Short-circuit breaking capacity level		L	M	Н	L	M	Н	L	M	Н	L	M	Н
Rated ultimate short-circuit breaking capacity lcu(kA)		35	50	85	35	50	85	50	65	100	50	70	100
Rated operate short-circuit breaking capacity lcs(kA)		25	35	50	25	35	50	25	35	50	25	35	50
Rated short-time withstand current lcw(kA/0.5s)				-	_				5			8	
Using Type		A											
Rated residual operate current I?n(mA)		30、100、300 (Non-delay) 100、300、500 (Delay)			100、300、500			100、300、500			300、500、1000		
Rated residual non-operate	current I?no(mA)	0. 5l ∆ n											
Rated residual short-circuit making(breaking) capacity I?m(kA)		0. 25lcu											
Non-delay		0. 3s											
Residual current operate time(s)	Delay	0. 4s、1. 0s											
Residual current opera	ite type						AC	Туре					
Standard		IEC60947-2 GB14048.2 GB/Z6829											
Ambient temperature		-35 ℃ ~+ 70 ℃											
Electrical life			8000		8000			7500			7500		
Mechanical life			20000			20000		10000			10000		
Undervoltage release													
Shunt release													
Alarm contact													
Auxiliary contact													
Dimension (mm)	H1 W	92(3P) 122(4P)		107(3P) 142(4P)		150(3P) 198(4P)		210(3P) 280(4P)					
	L L		150		165		257			280			
	H1		110			115			148			168	
	H2		96			94			115			122	