6 Technical Characteristics

6.1 Category

a) By trip type, the circuit breaker can be divided into Type B, Type C and Type D;

b) By the number of poles, it can be divided into 1P, 1P+N, 2P, 3P, 3P+N and 4P;

6.2 Main technical parameters

See Table 2 for the main technical parameters

Table 2 Main Technical Parameters

Tripping type	Rated current In (A)	Number of poles	Rated voltage Ue(V)	Rated breaking capacity IcnA
Type B, C, D	1, 2, 3, 4, 5, 6 8, 10, 13, 16, 20, 25, 32, 40, 50, 63	1P	AC230/400V AC240/415V	6kA
		2P	AC400/415V	
		3P		
		4P		

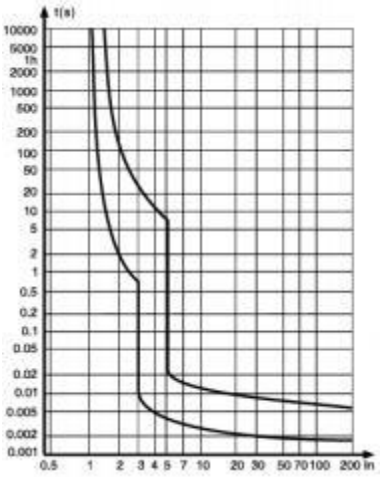
6.3 Main technical performance

a) See Table 3 for the overcurrent protection characteristics of the circuit breaker

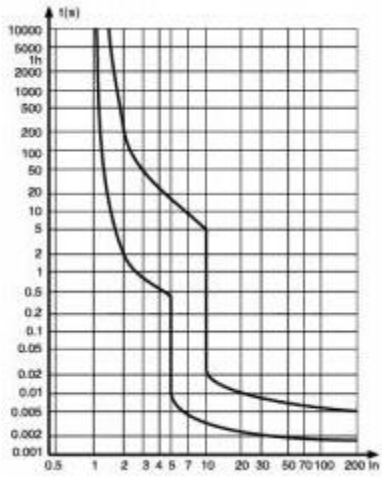
Table 3 Overcurrent Protection Characteristics of Circuit Breaker

Release type	Rated current In (A)	Test current A	Initial state	Start time	Expected result	Notes	Datum temperature
B, C and D	≤63	1.13In	Cold state	t≤1 h	Non-tripping	———	+30+o 5℃
B, C and D	≤63	1.45In	Connection test	t＜1 h	Trip	The current rises to the specified value within 5 seconds	
B, C and D	≤32	2.55In	Cold state	1s<t<60s	Trip	———	
B, C and D	>32			1s<t<120s			
B	≤63	3In	Cold state	t≤0.1 s	Non-tripping	Close auxiliary switch for power-on	
C		5In					
D		10In					
B	≤63	5In	Cold state	t＜0.1s	Trip	Close auxiliary switch for power-on	
C		10In					
D		14In					

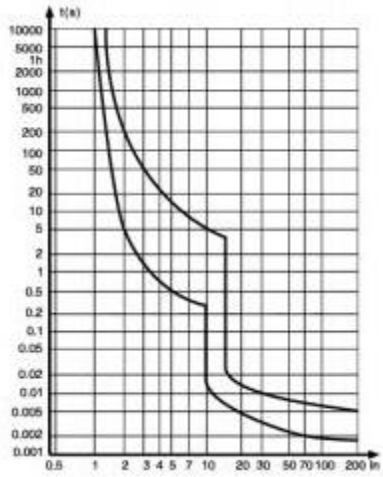
b) See the figure for the protection characteristic curve of the circuit breaker



Type B Thermal-Magnetic Trip Characteristic Curve



Type C Thermal-Magnetic Trip Characteristic Curve



Type D Thermal-Magnetic Trip Characteristic Curve

7 Appearance and Installation Size

See Figure 4 for the appearance and installation size of the circuit breaker

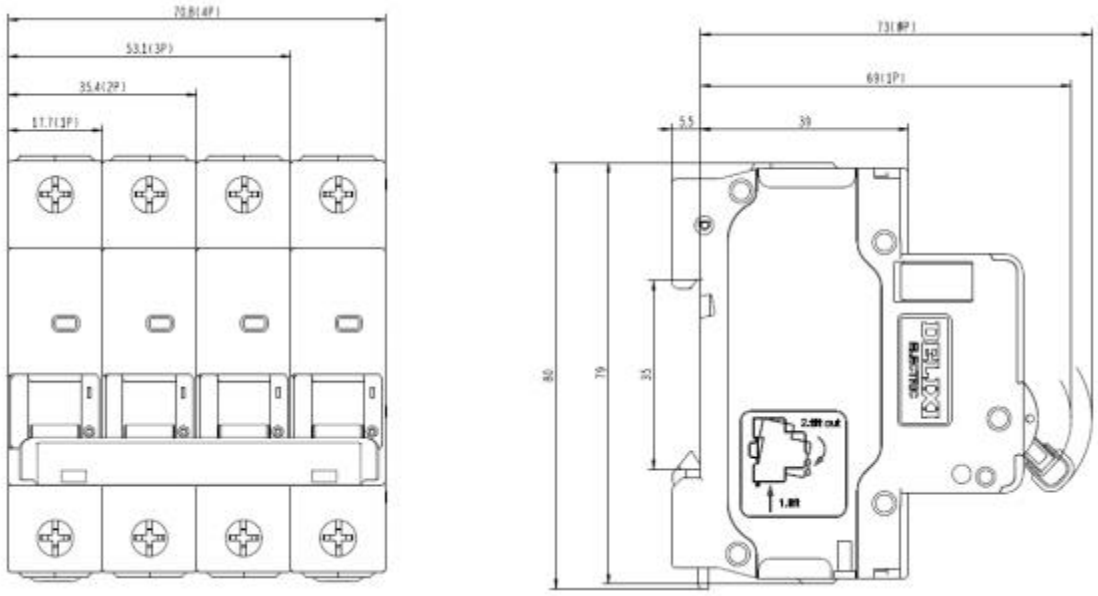


Figure 1 Appearance and Installation Size

8 Installation and Use (Maintenance)

a) Before installing the circuit breaker, check if the technical parameters on the pad printing mark conform to the use requirements;

b) Before using the circuit breaker, user shall check the followings via 500V megger, including the insulation resistance between the poles of the circuit breaker (except for the circuit breaker with single pole), between pole and shell, pole and installation rail, and between incoming line terminal and leading-out terminal; the resistance above should be no smaller than 5MΩ; if the resistance above is smaller than 5MΩ, do not use the circuit breaker and contact the manufacturer for replacement in time;

c) Open and close the circuit breaker for several times to check if the operation mechanism of the circuit breaker is blocked and if the mechanism action is reliable;