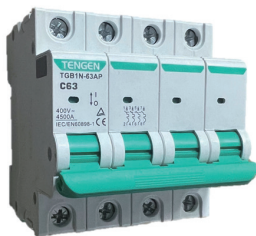


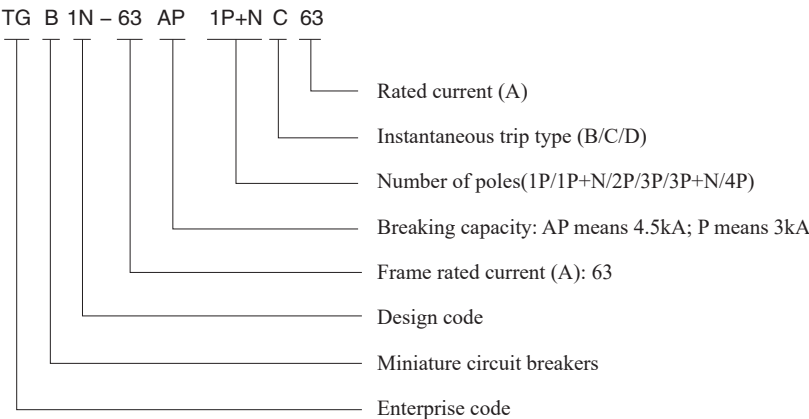
TGB1N-63(A)P Series, 4.5(3)KA MCB



1 Overview

TGB1N-63(A)P miniature circuit breaker (hereinafter referred to as circuit breaker) is primarily used in the AC 50/60Hz power line facilities and electrical equipment with the rated voltage 230V/400V and with the rated current up to 63A in households and similar places for overload and short circuit protection, and is also used as for infrequent on-off operations. It is particularly suitable for lighting and distribution systems in industry and commerce.

2 Type Designation



3 Product Parameters

3.1 Main technical parameters of the product (see Table 1)

Table 1

Product name		TGB1N-63AP	TGB1N-63P
Standard		IEC60898-1	
Product certification		CE, TUV, CB	
Electrical characteristics			
Number of poles		1P, 1P+N, 2P, 3P, 3P+N, 4P (N pole can be opened and closed)	
Rated frequency (Hz)		50/60	
Frame current (A)	Inm	63	
Rated current (A)	In	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	Ue	AC230/400(1P) AC230(1P+N) AC400(2P, 3P, 3P+N, 4P)	
Rated insulation voltage (V)	Ui	690	
Rated impulse withstand voltage (kV)	Uimp	4	
Rated short circuit breaking capacity (kA)	Icn	4.5	3
Instantaneous trip characteristics		B(3In ~ 5In) C(5In ~ 10In) D(10In ~ 14In)	
Trip form		Thermal magnetic trip	
Pollution degree		2	

TGB1N-63(A)P Series, 4.5(3)KA MCB

Table 1, continued

Product name	TGB1N-63AP	TGB1N-63P
Electrical and mechanical accessories	MX: Shunt release OF: Aux. contact SD: Alarm contact MX+OF: Shunt+ Aux. release MV: Overvoltage release MN: Undervoltage release MV+MN: Over-undervoltage release MNS: Voltage loss release LMI: Interlocking accessory	
Mechanical characteristics		
Electrical life (times)	10000	
Mechanical life (times)	20000	
Protection grade	IP20	
Normal working conditions and installation characteristics		
Ambient temperature	-35℃~ +70℃	
Installation altitude	Not exceed 2000m	
Wiring terminal	Pressed by screw	
Max. wiring capacity (mm²)	25	
Max. ultimate torque (Nm)	2.5	
Installation category	Class II, III	
Installation method	TH35-7.5 standard rail	
Inlet method	Top and botom inlets	

3.2 Operating characteristics of circuit breaker overcurrent release (see Table 2)

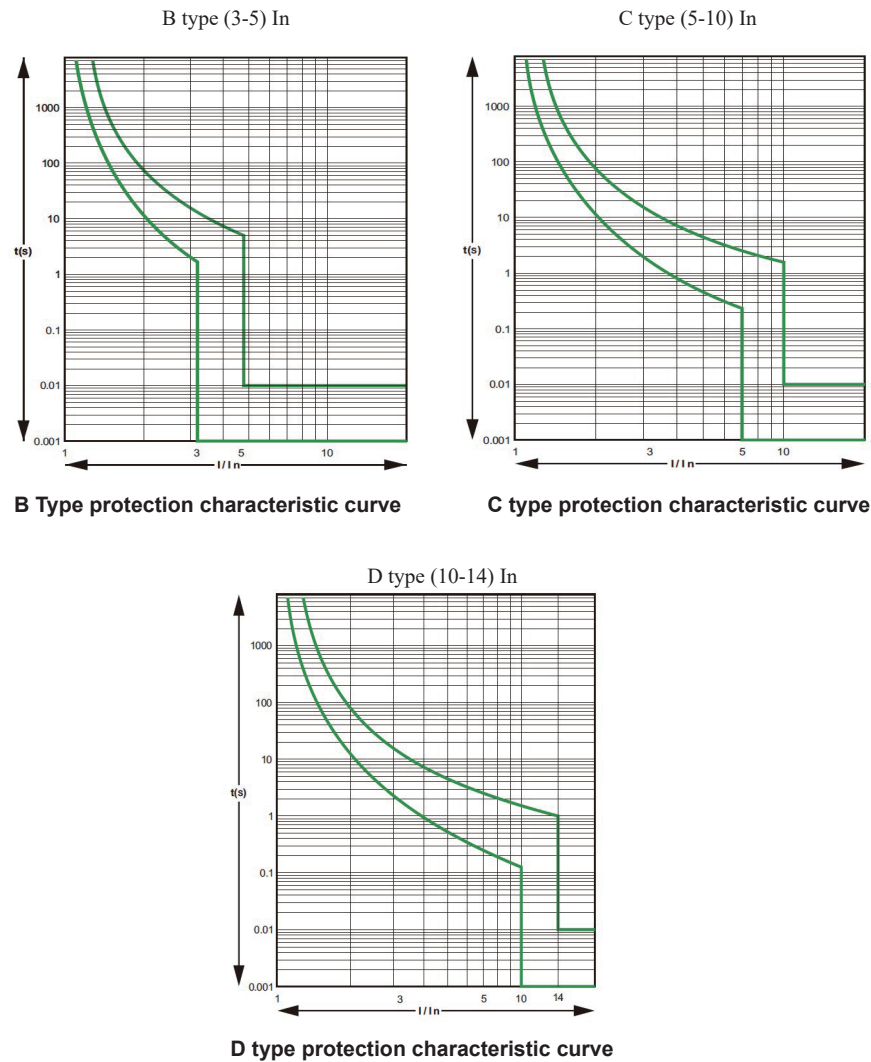
Table 2

No.	Test current (A)	Start state	Specified time	Expected results	Remarks
a	1.13In	Cold state	$t \leq 1h$	Non-trip	
	1.45In	1.13In test followed	$t < 1h$	Trip	Current rises to the specified value stably within 5s
	2.55In	Cold state	$1s < t < 60s$ (For $I_n \leq 32A$) $1s < t < 120s$ (For $I_n > 32A$)	Trip	
b	3In	Cold state	$t \leq 0.1s$	Non-trip	Turn on aux. switch to power on the current
	5In	Cold state	$t < 0.1s$	Trip	
c	5In	Cold state	$t \leq 0.1s$	Non-trip	Turn on aux. switch to power on the current
	10In	Cold state	$t < 0.1s$	Trip	
d	10In	Cold state	$t \leq 0.1s$	Non-trip	Turn on aux. switch to power on the current
	14In	Cold state	$t < 0.1s$	Trip	

Note: Cold state refers to no load at the 30°C temperature before test.

TGB1N-63(A)P Series, 4.5(3)KA MCB

3.3 Circuit breaker protection characteristic curve



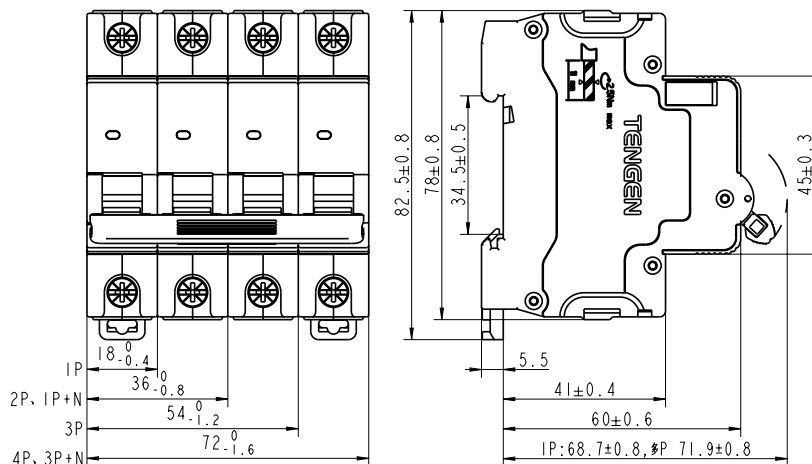
3.4 Wiring: Suitable for 25mm² and below wire connection (see Table 3), the wiring is connected through screws and the tightening torque is 2.5N.m.

Table 3

Rated current (A)	Sectional area of wire (mm ²)
1 ~ 6	1
10	1.5
16 ~ 20	2.5
25	4
32	6
40 ~ 50	10
63	16

TGB1N-63(A)P Series, 4.5(3)KA MCB

4 Installation Dimensions



5 Ordering Notice

- 5.1 Please specify the product model, specification, rated current, number of poles, and order quantity when ordering.
- 5.2 Order example: TGB1N-63AP miniature circuit breaker, C-type instantaneous release, rated current 32A, 1000 two-pole units
Please specify: TGB1N-63AP 2P C32 1000 units