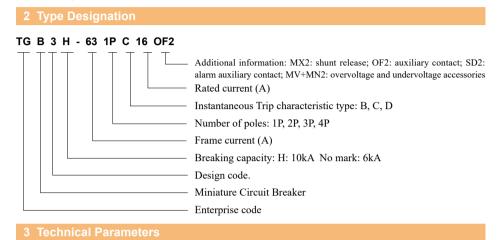


# TGB3(H)-63 Series, 6(10)KA Miniature Circuit Breaker

### 1 Overviev

TGB3(H)-63 miniature circuit breaker is used in the 50/60Hz power line with rated voltage 230/400V and rated current up to 63A in household and similar places for overload and short circuit protection and suitable for infrequent breaking and making operation, especially suitable for industrial and commercial lighting distribution systems.



#### 3.1 The main technical parameters of the product (see Table 1)

5.1 The main technical param	neters	s of the product (see Table 1)	Table 1	
Product name		TGB3-63	TGB3H-63	
Certificate		CE	CE	
Electrical characteristics	, in the second s			
Number of poles		1P,2P,3P,4P	1P,2P,3P,4P	
Rated frequency (Hz)		50/60	50/60	
Frame current (A)	Inm	63	63	
Rated current (A)	In	1,2,3,4,5,6,10,16,20,25,32,40,50,63	1,2,3,4,5,6,10,16,20,25,32,40,50,63	
Rated voltage (V)	Ue	AC230/400(1P) AC400(2P,3P,4P)	AC230/400(1P) AC400(2P,3P,4P)	
Rated insulation voltage (V)	Ui	690	690	
Rated impulse withstand voltage (kV)	Uimp	4	4	
Rated short-circuit breaking capacity (kA)	Ics	6	7.5	
Rated short-circuit breaking capacity (kA)	Icn	6	10	
Instantaneous trip characteristics		B,C,D	B,C,D	
Trip form		Thermal magnetic trip	Thermal magnetic trip	
Pollution degree		2	2	
Electrical and mechanical accessories		MV+MN2 (overvoltage and undervoltage), OF2 (auxiliary), SD2 (alarm), MX2 (shunt)	MV+MN2 (overvoltage and undervoltage), OF2 (auxiliary), SD2 (alarm), MX2 (shunt)	
Mechanical properties			-	
Electrical life		10,000 times	10,000 times	
Mechanical life		20,000 times	20,000 times	
Protection grade		IP20	IP20	
Indicator window		Contact status indication	Contact status indication	
Normal operation conditions and installation	n charac	cteristics		
Ambient temperature		$-35^{\circ}\mathrm{C} \sim +70^{\circ}\mathrm{C}$	$-35^{\circ}\mathrm{C} \sim +70^{\circ}\mathrm{C}$	
Installation site altitude		$\leq$ 2,000 meters	$\leq$ 2,000 meters	
Terminals		Fixed with screw	Fixed with screw	
Maximum wiring capacity		25mm <sup>2</sup>	25mm <sup>2</sup>	
Maximum limit torque Nm		2.5	2.5	
Installation category		Class II, III	Class II, III	
Installation method		TH35-7.5 steel mounting rail	TH35-7.5 steel mounting rail	
Incoming method		Top inlet and bottom inlet	Top inlet and bottom inlet	





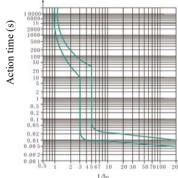
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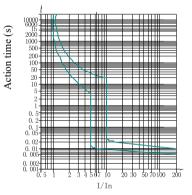
	•				•	, Table 2
No.	Rated current	Start state	Specified time	Expected results	Remarks	
а	1-63A	Cold state	1.13 In	$t \leq 1h$	Not trip	
b	1-63A	Hot state	1.45 In	t < 1h	Trip	Immediately after a) test, the current increases to the specified value within 5s.
	≤32	Cold state	2.55 In	$1s \le t \le 60s$	Trip Trip	
с	>32	Cold state	2.33 III	1s < t < 120s		
			3In(B type)		Not trip	Turn on the auxiliary switch for making current
d	1-63A	Cold state	5In (C type)	$t{\leq}0.1s$		
			10In(D type)			
			5In(B type)			
e	1-63A	Cold state	10In(C type)	t < 0.1s	Trip	Turn on the auxiliary switch for making current
			14In(D type)			

#### 3.2 Action performance of circuit breaker overcurrent release (see Table 2)

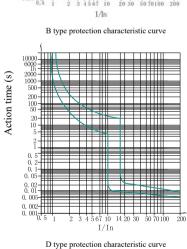
Note: The cold state refers to the temperature 30°C without load before the test.

### 3.3 Protection characteristic curve of circuit breaker





C type protection characteristic curve



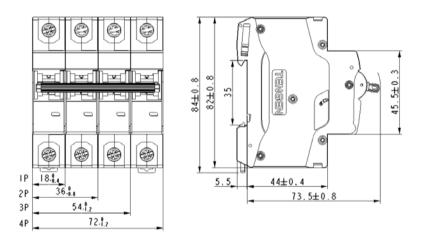


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3.4 Wiring: Suitable for wire connection of 25mm<sup>2</sup> and below (see Table 3). The wiring method is that the wire is fixed with screws according to the tightening torque 2.5N·m. Table 3

Rated current (A)
1, 2, 3, 4, 5, 6
10
16, 20
25
32
40, 50
63

4 Outline and Installation Dimensions



### **5 Ordering Notice**

- 5.1 Please specify the product model and specification, and the type, rated current, number of poles, and order quantity of the instantaneous release when ordering.
- 5.2 Order example: TGB3(H) series miniature circuit breaker, breaking capacity 10kA, C-type instantaneous release, rated current 32A, two-pole, 1,000 units. Specified as: TGB3H-63 C32 2P 1,000 units