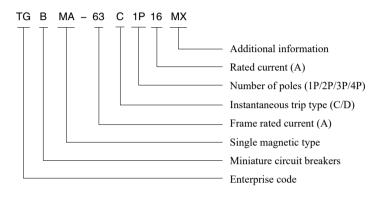
TGBMA Series, 6kA Single Magnetic MCB



TGBMA Series, 6kA Single Magnetic MCB (hereinafter referred to as circuit breaker) is primarily used in the AC 50Hz/60Hz power distribution network with rated current 1A to 63A and with rated voltage 230V or 400V, suitable for some areas such as medical IT power distribution system, motor protection and building fire protection system for power distribution at the low voltage terminal; as a short circuit protection switch, it can work together with the thermal relay or motor starter to realize overload protection.

2 Type Designation





3.1 Main Technical Parameters (See Table 1)

Table 1

	Table		
Product model	TGBMA-63		
andard IEC60947-2			
Number of poles	1P, 2P, 3P, 4P		
Rated frequency (Hz)	50/60		
Frame rated 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 (2P) AC400 (2P, 3P, 4P)		
Rated insulation voltage (V) Ui	690		
Rated impulse withstand voltage (kV) Uimp	6		
Rated operating short-circuit breaking capacity (kA) Ics	6		
Rated limit short-circuit breaking capacity (kA) Icu	t breaking capacity (kA) Icu 6		
The second second	C(8In±20%)		
Instantaneous trip characteristic	D(12In±20%)		
rip form Magnetic trip			
Pollution degree	Level 3		
	MX: Shunt release		
	0F: Aux. contact		
	SD: Alarm contact		
	MX+OF: Shunt + Aux. release		
Electrical and mechanical accessories	MV: Overvoltage release		
	MN: Undervoltage release		
	MV+MN: Over/undervoltage release		
	MNS: Voltage loss release		
	LMI: Interlocking accessory		
Mechanical properties			
Electrical life	10000		
Mechanical life	20000		

TGBMA Series, 6kA Single Magnetic MCB

续表 1

Product model	TGBMA-63		
Protection grade	IP20		
Normal working conditions and installation characteristics			
Ambient temperature	-35°C ∼ +70°C		
Installation altitude	Not exceed 2000m		
Terminal block	Screw-pressed		
Max. wiring capacity	25mm ²		
Max. limit torque	2.5N·m		
Installation category	Class II, Class III		
Installation method	TH35-7.5 (1.0) Standard rail		
Inlet method	Top and bottom		

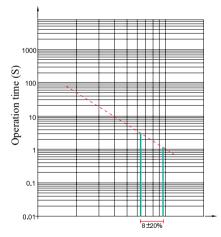
3.2 Operation performance of the circuit breaker overcurrent release

Table 2

					14010 2
Instantaneous trip type	Test current	Starting state			Remarks
Type C 6.4In 9.6In	Cold state	t≥0.2s	No trip	Turn on the aux. switch to power	
	9.6In	Cold state	t<0.2s	Trip	on the current
Type D	9.6In	Cold state	t≥0.2s	No trip	Turn on the aux. switch to power
	14.4In	Cold state	t<0.2s	Trip	on the current

Note: "Cold state" means no load before the test at a reference temperature of $\pm 30^{\circ} C.$

3.3 Protection characteristic curve of circuit breaker



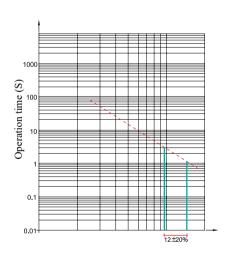


Fig. 1. C type protection characteristic curve

Fig. 2 D type protection characteristic curve

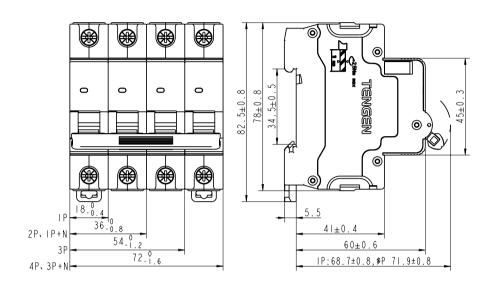
3.4 Wiring: It is suitable for copper wire connection of 25mm2 and below (see Table 3); the wire is tightened with screws, and the torque is $2.5N \cdot m$

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



TGBMA Series, 6kA Single Magnetic MCB

4 Outline and Installation Dimensions



5 Ordering Notice

- 5.1 Product model and name, such as TGBMA-63D single magnetic circuit breaker;
- 5.2 Number of poles, such as: 3P;
- 5.3 Instantaneously trip type, such as: D type;
- 5.4 Rated current of the product, such as: 40A;
- 5.5 Qty., such as 1000 units;
- 5.6 Ordering example: TGBMA-63D 3P 40A, 1000 units.