



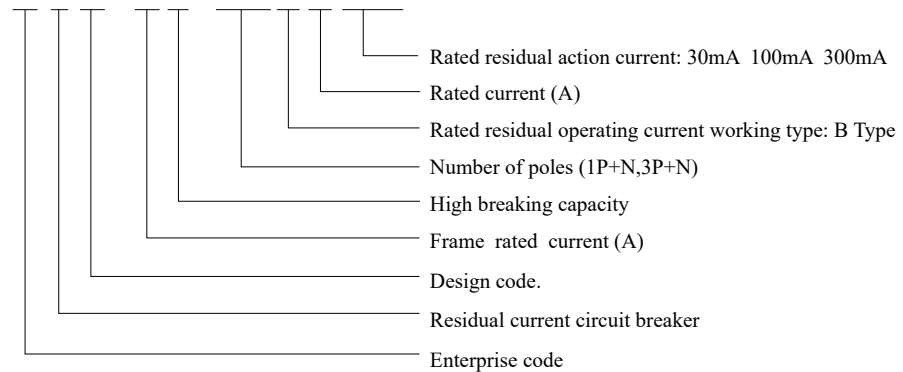
TGL1N-80H Series Residual Current Circuit Breaker, Electromagnetic B Type

1 Overview

TGL1N-80H series residual current circuit breaker is suitable for AC 50/60Hz Hz type B residual current protection circuit with rated voltage AC230V/240V (1P+N), AC400V/415V (3P+N), and with rated current up to 80A. It can quickly cut off the power supply in a short time in case of personal electric shock or when the leakage current from the power grid exceeds the specified value for safety protection of people and electrical equipment and is used for infrequent conversion of the line and the infrequent start of the motor. this product is suitable for various places such as industries, commercial purposes and charging pile fields, and high-rise residential buildings.

2 Type Designation

TG L 1N - 80 H / 1P+N B 80 30mA



3 Technical Parameters

3.1 Basic parameters

Table 1

Product name	TGL1N-80H
Standard	IEC/EN 61008-1, IEC/EN 62423
Certificate	TUV, CE, CB
Electrical characteristics	
Rated voltage (Ue)	AC230V/240V (1P+N), AC400V/415V (3P+N), N pole can be open and closed
Rated frequency (Hz)	50/60Hz
Rated current (Ie)	16, 20, 25, 32, 40, 50, 63, 80A
Rated residual operating current I _{Δn}	30mA, 100mA, 300mA
Rated operating current type	B type
Rated operating current time (t)	t ≤ 0.1S
Rated residual making and breaking capacity (I _{Δm})	I _{Δm} =I _m =1000A
Rated limit short circuit current (I _{nc})	I _{nc} =I _{Δc} =10000A
Number of poles	1P+N, 3P+N
Rated insulation voltage (U _i)	690V
Rated impulse withstand voltage (U _{imp})	4KV
Leakage release type	Electromagnetic type
Pollution degree	2

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Table 1, continued

Product name	TGL1N-80H
Mechanical properties	
Electrical life	2,000 times
Mechanical life	4,000 times
Protection grade	IP20
Normal operation conditions and installation characteristics	
Ambient temperature	-25°C~ +70°C
Installation site altitude	≤ 2,000 meters
Terminals	Fixed with screws
Maximum wiring capacity	35mm ²
Maximum limit torque	3N•m
Installation category	III
Installation method	TH35-7.5 standard rail
Incoming method	Top inlet and bottom inlet

3.2 Rated residual current action breaking time

3.2.1 The breaking time of A and AC type AC residual current (effective value) is shown in Table 2

Table 2

Model	I _{Δn}	Max. breaking time of RCCB at the residual current (s)					Max. breaking time
		I _{Δn}	2I _{Δn}	5I _{Δn}	0.25A	5A~200A. 500A	
General type	<30mA	0.1	0.08	/	0.04	0.04	
	30mA	0.1	0.08	/	0.04	0.04	
	>30mA	0.1	0.08	0.04	/	0.04	

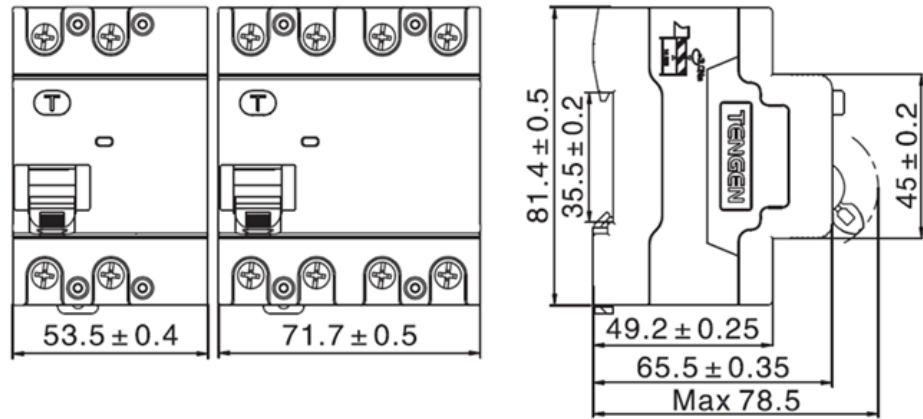
3.3 Wiring: Suitable for wire connection of 35mm² and below (see Table 3). The wiring method is that the wire is fixed with screws according to the tightening torque 3N•m.

Table 3

Rated current (A)	Sectional area of wire (mm ²)
16~20	2.5
25	4
32	6
40	10
50~63	16
80	25

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4 Outline and Installation Dimensions



5 Ordering Notice

Please specify the following items when ordering:

- 5.1 Product name, such as TGL1N-80 series residual current operated circuit breakers
- 5.2 The number of poles of the product, such as 1P+N;
- 5.3 The rated current of the product, such as 32A;
- 5.4 The rated residual operating current of the product, such as 30mA;
- 5.5 Working status of DC component, B type;
- 5.6 The number of products, such as 100 pcs;
- 5.7 Order example: TGL1N-80 1P+N 32A 30mA B, 100 pcs.