

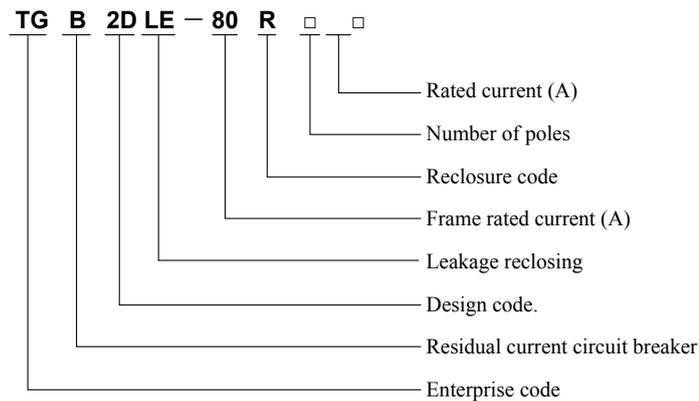


TGB2DLE-80R Series Leakage Reclosing Circuit Breaker

1 Product overview

TGB2DLE-80R series Leakage Reclosing Circuit Breaker (hereinafter referred to as circuit breaker) is mainly used in the AC 50Hz power line facilities and metering box with rated voltage 230V/400V and with rated current up to 80A for overcurrent protection and earth leakage protection to realize the remote control functions such as “power off when arrears” and “power on when paid” based on the paid or not state by user by cooperating with the intelligent power meter.

2 Type designation



3 Product parameters

3.1 Main technical parameters (see Table 1)

Table 1

Product name	TGB2DLE-80R
Standard	IEC60898-1
Certification	CE
Electrical characteristics	
Number of poles	2P、4P
Rated frequency (Hz)	50
Frame rated current (A) Inm	80
Rated current (A) In	6、10、16、20、25、32、40、50、63、80
Rated voltage (V) Ue	AC230(2P) AC400(4P)
Rated insulation voltage (V) Ui	10000 Times 500
Rated impulse withstand voltage (kV) Uimp	6
Rated operation short-circuit breaking capacity (kA) Ics	6
Rated ultimate short-circuit breaking capacity (kA) Icn	6
Rated residual current (mA) I Δ n	30、50
Maximum breaking time at rated residual current	0.1s
Instantaneous trip characteristics	C
Trip type	Thermomagnetic trip
Pollution level	2
Electrical and mechanical accessories	

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Table 1, continued

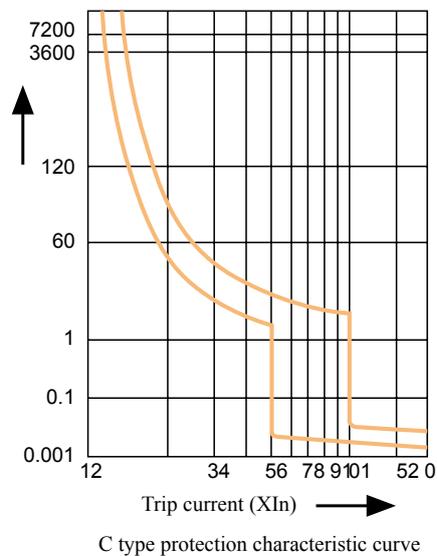
Product name	TGB2DLE-80R
Mechanical properties	
Electrical life	6000
Mechanical life	10000
Protection grade	IP20
Normal working conditions and installation features	
Ambient temperature	-35℃ ~+70℃
Altitude at the installation site	Not exceed 2000m
Wiring terminal	Fixed with screws
Max. wiring capacity (mm ²)	25mm ²
Max. ultimate torque (Nm) N.m	3
Installation category	Class II and III
Installation method	35mm standard rail
Incoming method	Upper incoming

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

Table 2

No.	Test current (A)	Starting state	Specified time	Expected results	Remarks
a	1.13In	Cold state	$t \leq 1h$	No trip	The current rises to the specified value smoothly within 5s
	1.45In	Just after 1.13In test	$t < 1h$	trip	
	2.25In	Cold state	$1s < t < 60s$ (For $I_n \leq 32A$) $1s < t < 120s$ (For $I_n \leq 32A$)	trip	
b	5In	Cold state	$t \leq 0.1s$	No trip	Turn on the auxiliary switch for power-on
	10In	Cold state	$t < 0.1s$	trip	

3.3 Protection characteristic curve of circuit breaker

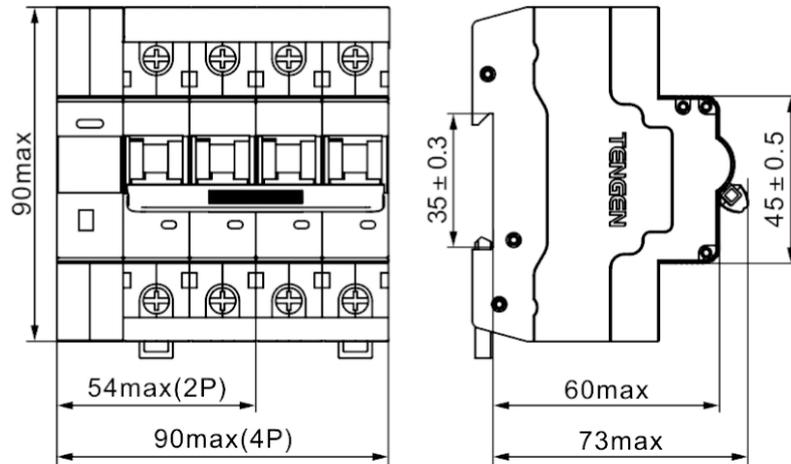


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3.4 The 25mm² and below wire is used for connection (see Table 3), the wires are fixed with screws according to the torque 3N.m.

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

4 Installation dimensions



5 Order information

Please specify the following items when ordering:

- 5.1 Product name, for example: TGB2DLE-80R external circuit breaker of power meter
- 5.2 Number of poles: such as 2P;
- 5.3 Instantaneous trip type, such as C type;
- 5.4 Rated current, such as 80A
- 5.5 Quantity, such as 100 units;
- 5.6 Order example: TGB2DLE-80R 2P C80, 100 units