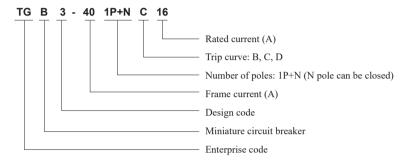
TGB3-40 Series, 6KA DPN MCB



1 Overview

TGB3-40 miniature circuit breaker is suitable for AC 50/60Hz power line facilities and electrical equipment with rated voltage 230V and with rated current up to 40A in buildings and similar sites for overload and short-circuit protection. It is also used for infrequent ON/OFF operation, especially for civil and commercial lighting distribution system.

2 Type Designation



3 Technical Parameters

3.1 Main technical parameters (see Table 1)

Table 1

		Table 1			
Product name		TGB3-40			
Standard		IEC60898-1			
Certification		CE, CB			
Electrical characterustics					
Number of poles		1P+N (N pole can be closed)			
Rated frequency (Hz)		50/60			
Frame current (A)	Inm	40			
Rated currnt (A)	In	6, 10, 16, 20, 25, 32, 40			
Rated voltage (V)	Ue	AC230			
Rated insulation voltage (V)	Ui	500			
Rated impulse withstand voltage (kV)	Uimp	4			
Rated run short circuit breaking capacity (kA) Ics		6			
Rated short circuit capacity (kA) Icn		6			
Instantaneous trip characteristics		B,C,D			
Trip form		Thermomagnetic trip			
Pollution degree		2			
Electrical and mechanical accessories		-			
Mechanical properties					
Electrical life		10,000 times			
Mechanical life		20,000 times			
Protection grade		IP20			
Indication window		Contact status indication			
Operation conditions					
Ambinet temperature		-35°C - +70°C			
Installation site altitude		Not exceed 2,000 meters			
Wiring terminal		Wired with screws			
Maximum wiring capacity		10 mm^2			
Maximum ultimate torque		1.8			
Installation category		Class II, III			
Installation method		TH35-7.5 steel mounting rail			
Incoming method		Top and bottom			

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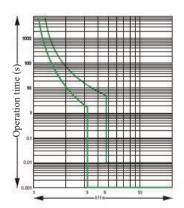
- 3.2 Structure features: This product is a two-pole (1P+N) circuit breaker with an overcurrent release installed on the phase line rather than the neutral pole. Compared with the common DZ47 series 2-pole circuit breaker, this product has advantages of small size, light weight, artistic appearance, and low price, suitable for power distribution system in residential buildings.
- 3.3 Operation properties of overcurrent release of circuit breaker (see Table 2)

Table 2

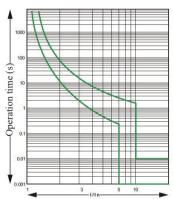
	Tuoie 1						
No.	Test current (A)	Starting state	Test current (A)	Specified time	Expected results	Remarks	
a	All specificaitons	Cold state	1.13In	t≤1h	Non trip		
b	All specificaitons	After test a)	1.45In	t<1h	Trip	Current rises to the specified value within 5s after Item a)	
_	≤32	Cold	2.551	1s <t<60s< td=""><td>Trip</td><td></td></t<60s<>	Trip		
С	>32	Cold	2.55In	1s <t<120s< td=""><td>Trip</td><td></td></t<120s<>	Trip		
d A	All specificaitons	Cold state	3In (curve B)	t≤0.1s	Non trip	Turn on the auxiliary switch for current making	
			5In (curve C)				
			10In (curve e D)				
e All specific		ecificaitons Cold state	5In (curve B)	t<0.1s	Trip	Turn on the auxiliary switch for current making	
	All specificaitons		10In (curve C)				
			14In (curve D)				

Note: Cold state refers to 30°C without load before test.

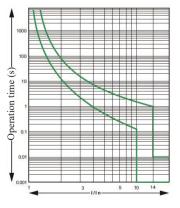
3.4 Circuit breaker protection characteristic curve



B type protection characteristic curve



C type protection characteristic curve



D type protection characteristic curve



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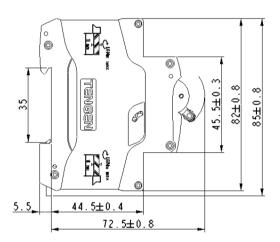
 $3.5\,$ Wiring: Suitable for connection of wire of 10mm^2 and below (see Table 3), the wiring method is connection with screws according to the torque 1.2N.m

Table 3

Rated current In (A)	Nominal section area of copper wire (mm²)
6	1
10	1.5
16, 20	2.5
25	4
32	6
40	10

4 Outline and Installation Dimensions





5 Order Notice

- 5.1 Please specify the model and specification of product, instantaneous release type and rated current, number of poles, and order quantity.
- $5.2\,$ Order example: TGB3-40 miniature circuit breaker, C type instantaneous release, rated current 32A, $1,000\,$ pcs

Please specify: TGB3-40 C32 1,000 pcs