

DPN Series Miniature Circuit Breaker



1. Application

DPN is used in the single phase circuit of AC 50Hz/60Hz, rated voltage 230V or below for protecting circuit from overload and short circuit. This product has advantages of high breaking capacity, small volume, width is only 18mm. It conforms with the standards of IEC60898.

2. Main technical parameter

Type	DPN
Pole	1P+N
Rated current (A)	6, 10, 16, 20, 25, 32
Rated voltage(V)	230
Type of instantaneous release	C
Rated short circuit breaking capacity $I_{cn}(A)$	4500

3. Applicable conducting wire

Rated current(A)	Normal cross section of wire mm^2
$I_n \leq 6$	1
$6 < I_n \leq 13$	1.5
$13 < I_n \leq 20$	2.5
$20 < I_n \leq 25$	4
$25 < I_n \leq 32$	6

4. The over-current protection property

Ambient Temperature	Initial Status	Test Current	Expected Result	Expected Result	Note
$30 \pm 2^\circ C$	Cold position	$1.13I_n$	$t \leq 1h$	Non-release	—
	Carried out immediately after previous test	$1.45I_n$	$t < 1h$	Release	—
	Cold position	$2.55I_n$	$1s < t < 60s$	Release	Current smoothly rises to specified value within 5s
$-5 \sim +40^\circ C$	Cold position	$5I_n$	$t \leq 0.1s$	Non-release	Type C
	Cold position	$10I_n$	$t < 0.1s$	Release	Type C