DPNL(HBDB1L) Leakage Circuit Breaker With Over-current Protection

1. Application

DPNL is used in the single phase circuit of AC 50Hz/60Hz, rate voltage 230V, used as electron shock protection. it can protect circuit form overload and short circuit. This product has advantages of small volume, high breaking capacity, live and zero wire are cut off at the same time, also protecting person from electric shock when the live wire connected opposite. It conforms with the standards of IEC61009.

2. Main technical parameter

Type	DPNL
Pole	1P+N
Rated current (A)	6,10,16,20,25,32
Rated voltage(V)	230
Rated residual action current IΔn(A)	0.03
Rated residual non–action current IΔno(A)	0.015
Rated residual making/breaking capacity IΔm(A)	500
Type of instantaneous release	C
Rated making/breaking capacity Im(A)	4500

3. Applicable conducting wire:

Rated current(A)	Norminal cross section of wire mm^2
In ⩽ 6	1
6<In ⩽ 13	1.5
13<In ⩽ 20	2.5
20<In ⩽ 25	4
25<In ⩽ 32	6

4. Residual current breaking time

In (A)	IΔn (A)	Breaking time(s) when equals to rating following				
		IΔn	2IΔn	5IΔn	5,10,20,50,100,200,500[a](A)	IΔt[b]
6–32	0.03	0.1	0.06	0.04	0.04	0.04

5.The over-current protection property

Ambient Temperature	Initial Status	Test Current	Expected Result	Expected Result	Note
30 ± 2℃	Cold position	1.13In	t ⩽1h	Non–release	–
	Carried out immediately after previous test	1.45In	t<1h	Release	–
	Cold position	2.55In	1s<t<60s	Release	Current smoothly rises to specified value within 5s
–5~+40℃	Cold position	5In	t ⩽ 0.1s	Non–release	Type C
	Cold position	10In	t<0.1s	Release	Type C