HDB6VL-40 Residual Current Circuit Breaker With Overcurrent Protection

Standard: IEC61009

CB CE

Final Distribution

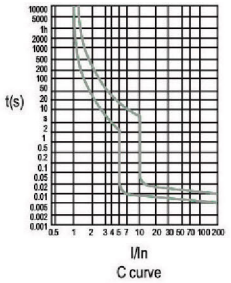
Function

- Provides protection against earth fault/leakage current, short-circuit, overload, and function of isolation
- Provides complementary protection against direct contact by human body
- Effectively protects electric equipment against insulating failure
- Provides comprehensive protection to household and commercial distribution systems

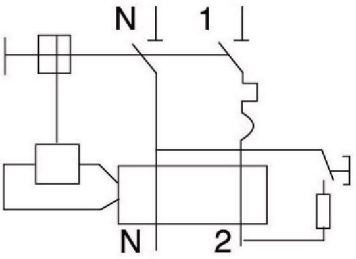
Technical Data

- Type: Electro-magnetic type
- Residual current characteristics: AC
- Pole No.: 1P+N
- Tripping curve: C
- Rated short-circuit capacity: 6kA
- Rated current (A): 1,2,3,4,6,10,16,20,25,32,40
- Rated voltage: 240V AC
- Rated frequency: 50/60Hz
- Rated residual operating current(mA): 30, 300
- Tripping duration: instantaneous≤0.1s
- Electro-mechanical endurance: 4000 cycles
- Connection terminal: pillar terminal with clamp
- Connection capacity:
- Rigid conductor 16mm^2
- Installation:
- On symmetrical DIN rail 35mm
- Panel mounting
- Wiring Diagram

Characteristic Curve



Wiring Diagram



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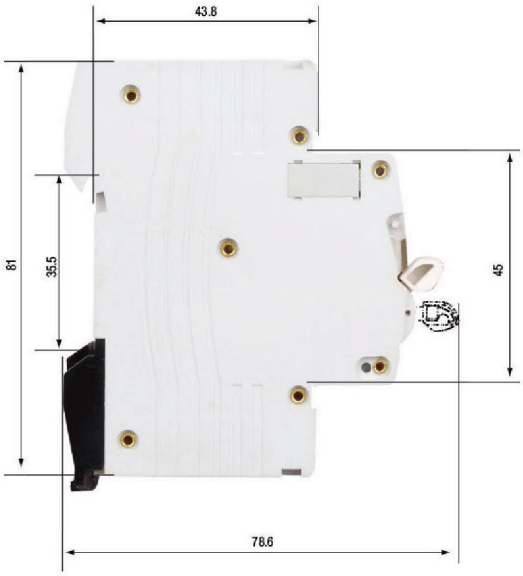
Overall & Installation Dimensions



Overload Current Protection Characteristics

Test Procedure	Type	Test Current	Initial State	Tripping or Non-tripping Time Limit	Expected Result	Remark
a	C	1.13In	cold	t≥1h	no tripping	
b	C	1.45In	after test a	t<1h	tripping	Current in the 5s in the increase of stability
c	C	2.55In	cold	1s<t<60s	tripping	
d	C	5In	cold	t≥0.1s	no tripping	Turn on the auxiliary switch to close the current
e	C	10In	cold	t<0.1s	tripping	Turn on the auxiliary switch to close the current

Residual Current Action Breaking Time

type	In/A	I△n/A	Residual Current (I△) Is Corresponding To The Following Breaking Time(S)				
AC type	any value	any value	In	2In	5In	5A, 10A, 20A, 50A, 100A, 200A, 500A	
A type	any value	> 0.01	1.4In	2.8In	7In		
			0.3	0.15	0.04	0.04	Max Break-time
The general type RCBO whose current I△n is 0.03mA or less can use 0.25A instead of 5I△n							