Advantages

◆Operating mechanism adopt double contact with DPN form, N pole opening first, then breaking.
◆Leakage protection adopt electronic type integrated circuit, Contact ON/OFF state display;
◆Trigger has middle–position function and a clamshell to put tags in and characteristic strips on both sides.
◆Provides protection against earth fault/leakage current, short–circuit, overload, and function of isolation.

MRO50-32

Technical Data

◆Residual current characteristics: AC, A
◆Pole No.: 1P+N
◆Rated current (A): 6, 10, 16, 20, 25, 32
◆Tripping curve: B, C
◆Rated making and breaking capacity: 6000A
◆Rated voltage: 240V AC
◆Rated frequency: 50Hz
◆Rated residual operating current I△n(mA): 30
◆Tripping duration: instantaneous tripping≤ 0.1s
◆Electro–mechanical endurance: 4000 cycles
◆Connection capacity: Rigid conductor 25mm^2

MRO50-40

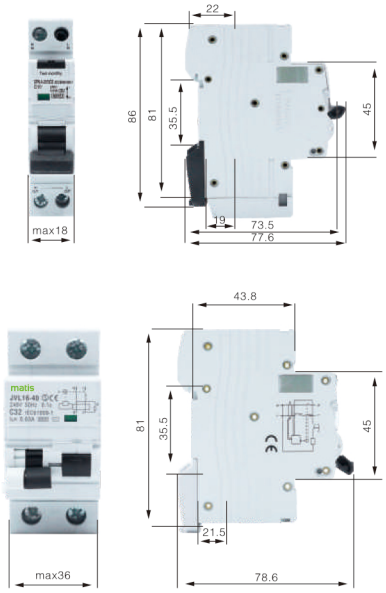
Technical Data

◆Residual current characteristics: AC, A
◆Pole No.: 1P+N
◆Rated current (A): 6, 10, 16, 20, 25, 32,40
◆Tripping curve: B, C
◆Rated making and breaking capacity: 6000A
◆Rated voltage: 240V AC
◆Rated frequency: 50Hz
◆Rated residual operating current I△n(mA): 30
◆Tripping duration: instantaneous tripping≤ 0.1s
◆Electro–mechanical endurance: 4000 cycles
◆Connection capacity: Rigid conductor 25mm^2

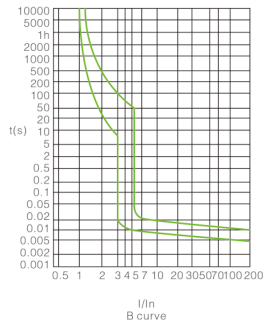
MRO50 Residual Current Circuit Breaker With Overload Protection (RCBO)

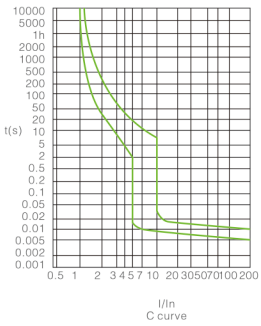
matis smart electrical

Overall & installation dimensions

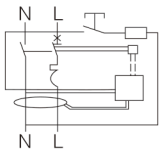


Characteristic Curve





Wiring Diagram



Overload Current Protection Characteristics

Test Procedure	Type	Test Current	Initial State	Tripping or Non–tripping Time Limit	Expected Result	Remark
A	B,C	1.13In	Cold	t≥1h	no tripping	
B	B,C	1.45In	after test a	t < 1h	tripping	current in the 5s in the increase of stability
C	B,C	2.55In	Cold	1s < t < 60s	tripping	
D	B	3In	Cold	t≥0.1s	no tripping	Turn on the auxiliary switch to close the current
	C	5In				
E	B	10In	Cold	t < 0.1s	tripping	Turn on the auxiliary switch to close the current
	C	10In				

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	1.14In	2.8In	7In		
A type	any value	≤0.01	2In	4In	10In		
			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.