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ML50H Residual Current Device (RCD/RCCB)

Advantages

◆Provides protection against earth fault/leakage current and function of isolation
◆High current rating up to 100A
◆Applicable to terminal and pin/fork type busbar connection
◆Contact position indication
◆Fire resistant plastic parts endures abnormal heating and strong impact
◆Automatically disconnect the circuit when earth fault/leakage current occurs and exceeds the rated sensitivity.
◆Independent of power supply and line voltage and free from external interference, voltage fluctuation.

Technical Data

◆Mode: electro−magnetic type
◆Residual current characteristics: A,AC,G,S
◆Pole No:2,4
◆Rated making and breaking capacity: 500A(In=25A,40A) or 630A(In=63A)
◆Rated Current: 25,40,63A
◆Rated voltage: AC 230(240)/400(415)
◆Rated frequency: 50/60Hz
◆Rated residual operating current $I\triangle n(A)$: 0.03, 0.1, 0.3, 0.5
◆Rated residual non operating current $I\triangle no$: $0.5I\triangle n$
◆Rated conditional short−circuit current Inc: 10KA
◆Residual tripping current range: $0.5I\triangle n \sim I\triangle n$
◆Terminal Connection Height:19mm
◆Electro−mechanical endurance: 4000 cycles
◆Connection capacity: Rigid conductor $25mm^2$
◆Connection terminal:Screw terminal
◆Fastening torque: 2.0N.m
◆Installation:
◇On symmetrical DIN rail 35mm
◇Panel mounting
◆Ptotection calss: IP20

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Overall & installation dimensions
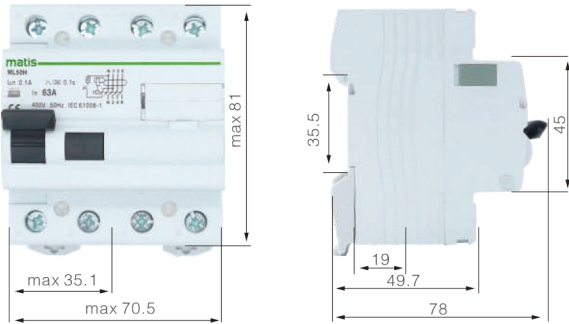
Wiring Diagram
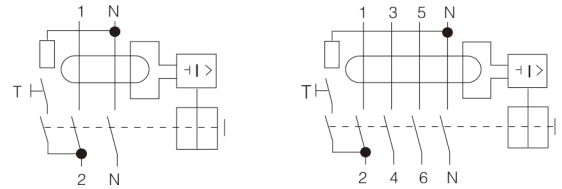
Residual Current Action Breaking Time

Type	In/A	In/A	Residual Current($I\triangle$) Is Corresponding To The Following Breaking Time(S)				
			$I\triangle n$	$2I\triangle n$	$5I\triangle n$	5A,10A,20A,50A,100A,200A,500A	
general type	any value	any value	0.3	0.15	0.04	0.04	Max Break−time
S type	≥25	> 0.03	0.5	0.2	0.15	0.15	Max Break−time
			0.13	0.06	0.05	0.04	Min non−driving time
G type	any value	any value	0.5	0.2	0.15	0.15	Max Break−time
			0.01	0.01	0.01	0.01	Min non−driving time

The general type RCBO whose current $I\triangle n$ is 0.03mA or less can use 0.25A instead of $5I\triangle n$.

Residual Current Operated Circuit Breaker Tripping Current Range

Type		Tripping current $I\triangle$/A	
AC		$0.5I\triangle n \leq I\triangle \leq 1\triangle n$	
A	Lagging Angle	$I\triangle n > 0.01A$	$I\triangle n > 0.01A$
	0°	$0.35I\triangle n \leq I\triangle \leq 1.4In$	$0.35I\triangle n \leq I\triangle \leq 2In$
	90°	$0.25I\triangle n \leq I\triangle \leq 1.4In$	$0.25I\triangle n \leq I\triangle \leq 2In$
	135°	$0.11I\triangle n \leq I\triangle \leq 1.4In$	$0.11I\triangle n \leq I\triangle \leq 2In$

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