

TECHNICAL SPECIFICATION

Residual current devices JEL1A



These are Residual Current Devices (RCDs) JEL 1A with enhanced sensibility and fast - operating protection devices applicable in circuits with harmonic or direct pulsating current component presence.

Functions:

- Switching off electrical circuits on load at conductor insulation breaking to the consumer
- Switching off electrical circuits on load at direct and indirect contact
- Switching off electrical circuits on load at alternating earth fault currents during consequent light impact
- Switching off consumers at harmonic presence due to luminescent lights
- Switching off consumers in DC circuits at fault currents presence
- Mechanical indicator for ON position

Technical data:

- Rated operating voltage: 230/400V; 50 Hz
- Rated current: according to the table
- Responsiveness: 30mA and 300mA
- Time delay until break: $<0.1s$ at $I \Delta n$ and $<0.04s$ at $2I \Delta n$
- Short circuit current wear resistance: 6000A
- Electrical wear resistance (number of cycles): ≥ 2000
- Mechanical wear resistance (number of cycles): ≥ 4000
- IP code: IP >20

Connecting:

- Power supply busbar (only for bipolar)
- Flexible or rigid conductors with corresponding section

Mounting:

- On DIN-rail
- Mounting position: vertical

The residual current device is mounted in the distribution box, and after the device the neutral conductor and the earthing conductor must not be connected together. In order to work accurately, the device must have three- or five-conductor grid with separate protective conductor (PE) (e.g. earthing system TN-s or TT with three or five conductors). The corpus of the consumer depending on the grid type must be connected either to the protective conductor or be earthed. (Fig.1)

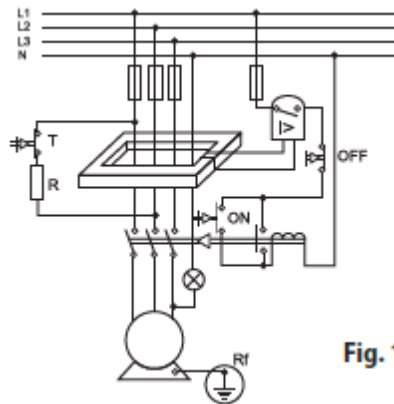
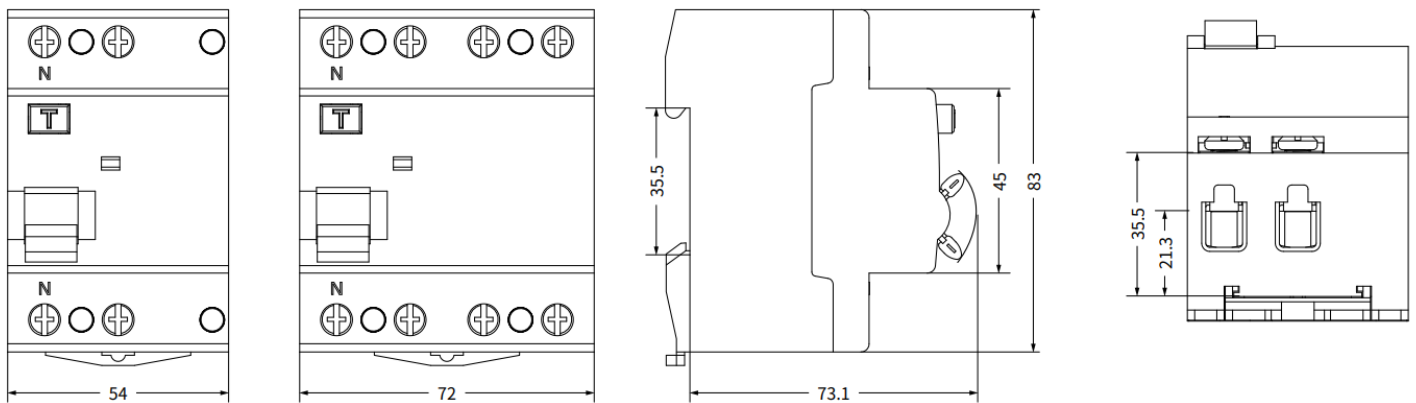


Fig. 1

Dimensions:



Overall and installation dimensions (mm)

Products:

Type	Number of poles	Breaking capacity (kA)	Rated current In(A)	Catalogue number Leakage current I Δ (mA)	
				30	300
JEL1A	2P	6	16.0	40516	40518
JEL1A	2P	6	20.0	40592	40594
JEL1A	2P	6	25.0	40521	40523
JEL1A	2P	6	32.0	40531	40533
JEL1A	2P	6	40.0	40541	40543
JEL1A	2P	6	63.0	40561	40563
JEL1A	2P	6	80.0	40581	40583
JEL1A	2P	6	100.0	40591	40597

Type	Number of poles	Breaking capacity (kA)	Rated current In(A)	Catalogue number Leakage current I Δ (mA)	
				30	300
JEL1A	4P	6	16.0	40616	40618
JEL1A	4P	6	20.0	40692	40694
JEL1A	4P	6	25.0	40621	40623
JEL1A	4P	6	32.0	40631	40633
JEL1A	4P	6	40.0	40641	40643
JEL1A	4P	6	63.0	40661	40663
JEL1A	4P	6	80.0	40681	40683
JEL1A	4P	6	100.0	40691	40697

Standarts:

EN 61008-1

EN 61008-2

