

ELMARK
The Brand of Electricity

TECHNICAL SPECIFICATION

RCBO WITH ARC FAULT PROTECTIVE, JEL8A CURVE C



DESCRIPTION OF THE OPERATING SYSTEM:

An arc-fault detection device (AFDD) or arc-fault circuit interrupter (AFCI) is a circuit breaker that breaks the circuit when it detects the electric arcs that are a signature of loose connections in home wiring. Loose connections, which can develop over time, can sometimes become hot enough to ignite house fires dangerous arc (that can occur, for example, in a lamp cord which has a broken conductor). An AFDD selectively distinguishes between a harmless arc (incidental to normal operation of switches, plugs, and brushed motors), and a potentially dangerous arc (that can occur, for example, in a lamp cord which has a broken conductor).

TECHNICAL DATA:

- Mode: Electronic
- Type: A for AC/DC current
- Rated operating voltage U_e : 240V 50/60 Hz
- Insulation voltage U_i : 400V
- Circuit breaker rated current: according to the table
- Residual current responsiveness: 30mA
- Break time under $I_{\Delta n}$: $\leq 0.1s$
- Circuit breaker tripping curve: C
- Energy limiting class: 3
- Breaking capacity: 6 000A
- Rated impulse withstand voltage (1.5/50) U_{imp} : $\geq 4000V$
- Dielectric test voltage at ind. Freq. for 1min: 2kV
- Pollution degree: 2
- Electrical life: 4 000 cycles
- Mechanical life: 10 000 cycles
- IP code: IP>20
- Indication for operating (switched on) position
- Terminal connection type: Cable
- U-type busbar
- Terminal size top/bottom for cable: 16mm²
- Terminal size top/bottom for busbar: 16mm²
- Tightening torque: 2.5Nm
- Reference temperature for setting of thermal elements: 30°C
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

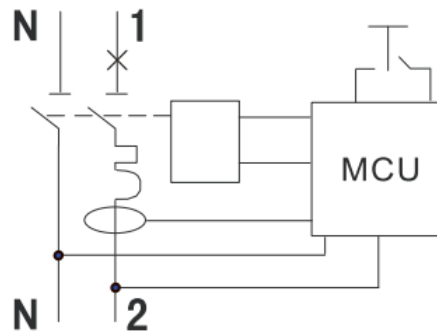
FUNCTIONS

- Arc Fault Protection.
- Overload Protection.
- Short-Circuit Protection.
- Earth-Leakage Protection.

RCD type B for AC/DC current:

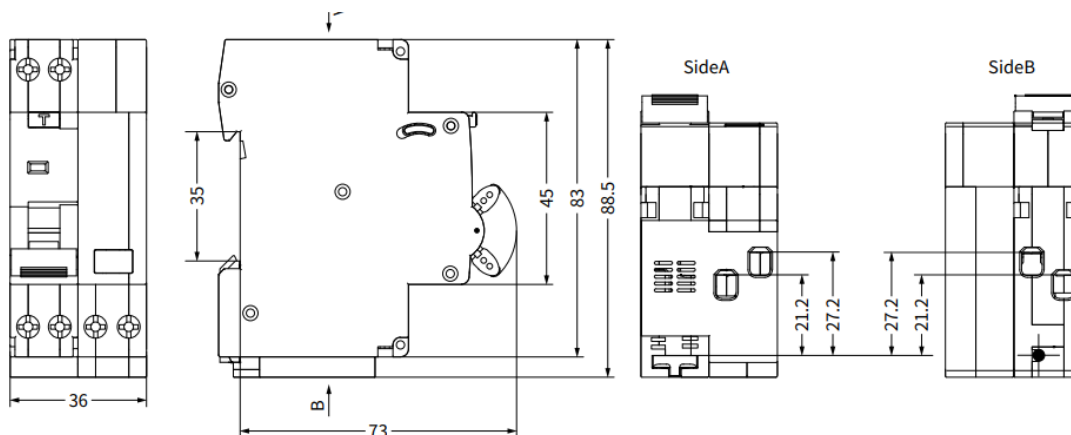
Type	Number of poles	Breaking capacity (kA)	Rated current I_n (A)	Catalogue number
				Leakage current I_{Δ} (mA)
JEL8A	1P+N	6	6	40870
JEL8A	1P+N	6	10	40871
JEL8A	1P+N	6	16	40872
JEL8A	1P+N	6	20	40873
JEL8A	1P+N	6	25	40874
JEL8A	1P+N	6	32	40875
JEL8A	1P+N	6	40	40876

CIRCUIT DIAGRAM:



Circuit diagram

DIMENSION:



Overall and installation dimensions

ADDITIONAL INFORMATION:

Catalog number	Barcode	Packing/ Box (pcs)
40870	3800131256362	1/60
40871	3800131256379	1/60
40872	3800131256386	1/60
40873	3800131256393	1/60
40874	3800131256409	1/60
40875	3800131256416	1/60
40876	3800131256423	1/60

