

# RCBOs - Residual current circuit breakers with integral overcurrent protection KZS

## Advantages of residual current circuit breakers with integral overcurrent protection KZS - 1M

→ Combining the features of miniature circuit breaker and a residual current circuit breaker, functionally dependent on line voltage (minimum supply voltage 90V)

→ Version with operating temperature down to -35°C also available

→ Real contact position indication for easier identification, whether RCBO is in ON or OFF position

→ Added protection against any pulsating DC component that can be generated from electrical appliances

→ Energy limiting class 3: highest energy limiting performance for optimal protection of cable insulation and maximally reducing risk of fire and other damage

→ Sealing possibility

→ 1-module housing (18 mm), with switched neutral line

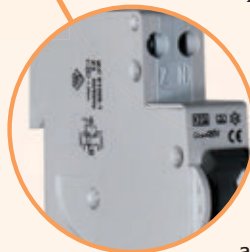
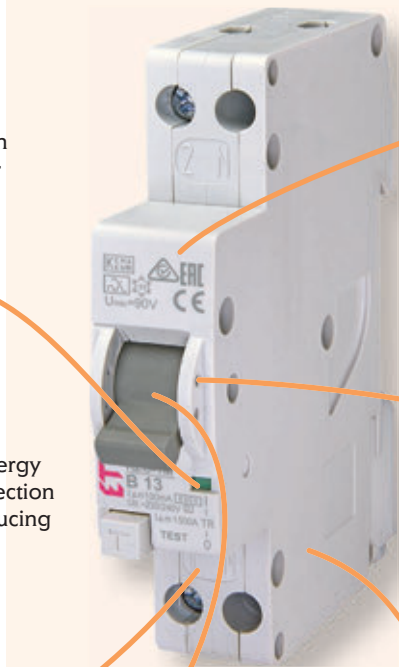
→ Clearly marked terminals to ensure appropriate connection

→ In case of overcurrent or differential current, the button moves to the "trip" (middle) position. In case of manual turn off, the button moves to the "off" (lowest) position.

→ All necessary technical and installation information can be found on the front and side of the device

→ The terminals accept not only wires but also time saving busbars

→ Advanced method of mounting enables an easy removal of single RCBO without disconnecting other units from the busbar



## Residual current circuit breakers with integral overcurrent protection

## Residual current circuit breaker with integral overcurrent protection KZS-4M 3p+N

Rated short-circuit capacity <b>6 kA</b>	Rated current <b>6 - 32 A</b>	Tripping characteristic <b>B, C</b>	Rated residual current <b>0,03 A - 0,5 A</b>
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**KZS-4M 3p+N I<sub>Δn</sub> = 30 mA**

I <sub>n</sub> [A]	Type A		Type AC		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C	Code No. B	Code No. C		
6	002174901	002174921	002174001	002174021	515	1/27
10	002174902	002174922	002174002	002174022	515	1/27
13	002174903	002174923	002174003	002174023	515	1/27
16	002174904	002174924	002174004	002174024	515	1/27
20	002174905	002174925	002174005	002174025	515	1/27
25	002174906	002174926	002174006	002174026	515	1/27
32	002174907	002174927	002174007	002174027	515	1/27

**KZS-4M 3p+N I<sub>Δn</sub> = 100 mA**

I <sub>n</sub> [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002174401	002174421	515	1/27
10	002174402	002174422	515	1/27
13	002174403	002174423	515	1/27
16	002174404	002174424	515	1/27
20	002174405	002174425	515	1/27
25	002174406	002174426	515	1/27
32	002174407	002174427	515	1/27

**KZS-4M 3p+N I<sub>Δn</sub> = 300 mA**

I <sub>n</sub> [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002174501	002174521	515	1/27
10	002174502	002174522	515	1/27
13	002174503	002174523	515	1/27
16	002174504	002174524	515	1/27
20	002174505	002174525	515	1/27
25	002174506	002174526	515	1/27
32	002174507	002174527	515	1/27

**KZS-4M 3p+N I<sub>Δn</sub> = 500 mA**

I <sub>n</sub> [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002174601	002174621	515	1/27
10	002174602	002174622	515	1/27
13	002174603	002174623	515	1/27
16	002174604	002174624	515	1/27
20	002174605	002174625	515	1/27
25	002174606	002174626	515	1/27
32	002174607	002174627	515	1/27

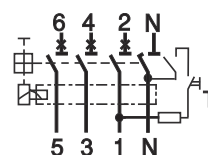
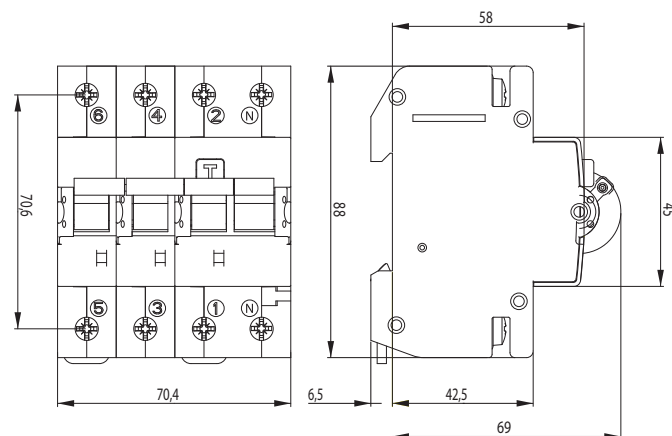


## Technical data

## Residual current circuit breaker with integral overcurrent protection KZS-4M 3p+N

**Technical data**

Rated voltage $U_n$	~400 V AC
Rated current $I_n$	6-32 A
Rated frequency $f_n$	50/60 Hz
Rated short-circuit capacity	6.000 A
Back-up fuse	100 A gG
Tripping characteristic	B, C
Type	AC, A
Rated residual current $I_{\Delta n}$	30, 100, 300, 500 mA
Rated residual making and breaking capacity $I_{\Delta m}$	4500A
Terminals	1-25 mm <sup>2</sup> , max. 3 Nm
Terminal screw	M5 (Poqidrive PZ2)
Width	70 mm
Mounting position	any
Standard	EN 61009-1



## Residual current circuit breaker with integral overcurrent protection KZS-4M 2p B-type

**Technical data**

Electrical	
Rated voltage $U_n$	230 V AC
Rated current $I_n$	6, 10, 13, 16, 20, 25, 32, 40 A
Rated Insulation voltage $U_i$	440 V
Peak withstand current	3kA (8/20ms) surge current proof
Electrical isolation	> 4mm contact space
Rated residual operating current $I_{\Delta n}$	30, 100, 300mA
Rated short-circuit capacity	10kA
Maximum back-up fuse	100A gG
Isolation class	B
Standard	IEC/EN 61009-1, IEC/EN 62423
Mechanical endurance	20.000
Electrical endurance	10.000
Mechanical	
Frame size	45mm
Device height	69 mm
Device width	70 mm
Degree of protection	IP20
Upper and lower terminals	open mounted/lift terminals
Terminal capacity	1-25 mm <sup>2</sup>
Terminal screw	M5 (Poqidrive PZ2)
Terminal torque	max 3,0 Nm
Operating temperature	-25°C ... +60°C
Storage and transport temperature	-40°C ... +70°C
Resistance to climatic conditions	IEC/EN 61009
Contact position indicator	mechanical red/green
Supply possibility	Top or bottom

