

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

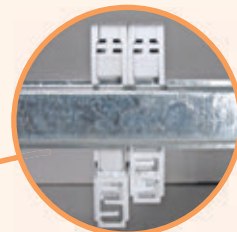
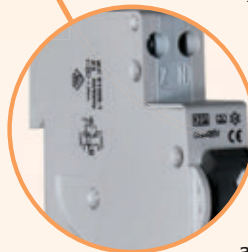
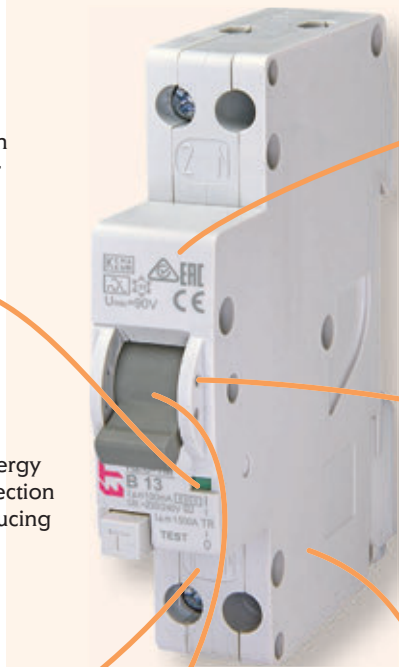
→ Clearly marked terminals to ensure appropriate connection

→ 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 breaker with integral overcurrent protection KZS-4M 3p

Rated short-circuit capacity
10 kA

Rated current
6 - 32 A

Tripping characteristic
B, C

Rated residual current
0,03 A - 0,5 A



KZS-4M 3p I_{Δn} = 30 mA

I _n [A]	Type A		Type AC		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C	Code No. B	Code No. C		
6	002174701	002174721	002174801	002174821	482	1/27
10	002174702	002174722	002174802	002174822	482	1/27
13	002174703	002174723	002174803	002174823	482	1/27
16	002174704	002174724	002174804	002174824	482	1/27
20	002174705	002174725	002174805	002174825	482	1/27
25	002174706	002174726	002174806	002174826	482	1/27
32	002174707	002174727	002174807	002174827	482	1/27

KZS-4M 3p I_{Δn} = 100 mA

I _n [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002173001	002173021	482	1/27
10	002173002	002173022	482	1/27
13	002173003	002173023	482	1/27
16	002173004	002173024	482	1/27
20	002173005	002173025	482	1/27
25	002173006	002173026	482	1/27
32	002173007	002173027	482	1/27

KZS-4M 3p I_{Δn} = 300 mA

I _n [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002174201	002174221	482	1/27
10	002174202	002174222	482	1/27
13	002174203	002174223	482	1/27
16	002174204	002174224	482	1/27
20	002174205	002174225	482	1/27
25	002174206	002174226	482	1/27
32	002174207	002174227	482	1/27

KZS-4M 3p I_{Δn} = 500 mA

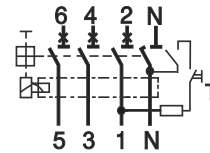
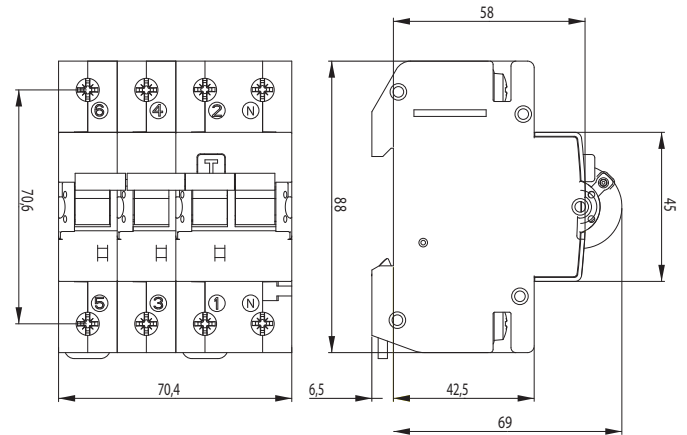
I _n [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002174301	002174321	482	1/27
10	002174302	002174322	482	1/27
13	002174303	002174323	482	1/27
16	002174304	002174324	482	1/27
20	002174305	002174325	482	1/27
25	002174306	002174326	482	1/27
32	002174307	002174327	482	1/27

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 ² , 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 ²
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

