

## Residual current circuit breakers with integral overcurrent protection

**Residual current circuit breaker with integral overcurrent protection KZS-2M**

 Rated short-circuit capacity  
**10 kA**

 Rated current  
**6 - 40 A**

 Tripping characteristic  
**B, C**

 Rated residual current  
**0,01 - 0,5 A**

Description: KZS (KZS-2M, KZS-4M) is a residual current circuit breaker combining the features of a miniature circuit breaker and a residual current circuit breaker and is functionally independent on line voltage. Used primarily in circuits with an increased requirements regarding touch voltage such as circuits of portable appliances, in kindergartens, schools, hospitals etc.

**KZS-2M  $I_{\Delta n} = 10 \text{ mA}$** 

$I_n$ [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002173211	002173231	225	1/54
10	002173212	002173232	225	1/54
13	002173213	002173233	225	1/54
16	002173214	002173234	225	1/54
20	002173215	002173235	225	1/54
25	002173216	002173236	225	1/54
32	002173217	002173237	225	1/54
40	002173218	002173238	225	1/54

**KZS-2M  $I_{\Delta n} = 30 \text{ mA}$** 

$I_n$ [A]	Type A		Type AC		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C	Code No. B	Code No. C		
6	002173201	002173221	002173101	002173121	225	1/54
10	002173202	002173222	002173102	002173122	225	1/54
13	002173203	002173223	002173103	002173123	225	1/54
16	002173204	002173224	002173104	002173124	225	1/54
20	002173205	002173225	002173105	002173125	225	1/54
25	002173206	002173226	002173106	002173126	225	1/54
32	002173207	002173227	002173107	002173127	225	1/54
40	002173208	002173228	002173108	002173128	225	1/54

**KZS-2M  $I_{\Delta n} = 100 \text{ mA}$** 

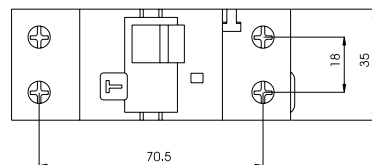
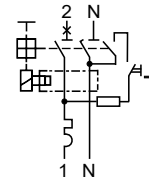
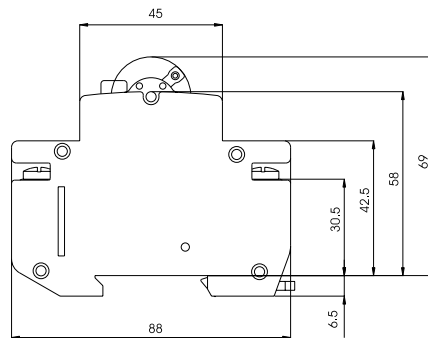
$I_n$ [A]	Type A		Weight [g]	Packaging [pcs]
	Code No. B	Code No. C		
6	002173701	002173721	225	1/54
10	002173702	002173722	225	1/54
13	002173703	002173723	225	1/54
16	002173704	002173724	225	1/54
20	002173705	002173725	225	1/54
25	002173706	002173726	225	1/54
32	002173707	002173727	225	1/54
40	002173708	002173728	225	1/54



Technical data

Residual current circuit breaker with integral overcurrent protection KZS-2M

Technical data			
Type	INST	G/KV	120 V
Rated voltage $U_n$	230/240 V AC		
Rated current $I_n$	6-40 A		
Rated frequency $f_n$	50 Hz		60 Hz
Rated impulse withstand voltage $U_{imp}$	4 kV		
Rated short-circuit capacity	10.000 A		
Back-up fuse	100 A gG		
Voltage range test circuit	180-200 V		90-143 V
Tripping characteristic	B, C		
Energy limiting class	3		
Type	A, AC		A
Rated residual current $I_{\Delta n}$	10, 30, 100, 300, 500 mA		30 mA
Peak withstand current	250 A		3 kA
Rated residual making and breaking capacity $I_{\Delta m}$	10.000A		
Terminals	1-25 mm <sup>2</sup> , max. 3Nm		
Terminal screw	M5 (Pozidrive PZ2)		
Width	36 mm		
Mounting position	any		
Resistance to vibrations acc. to IEC 60068-2-7	5g (10,60 & 500Hz)		
Standard	IEC 61009, EN 61009		



Conductor cross-section [mm <sup>2</sup> ]	Number of single conductors, rigid, single-wire CU conductor				
	1	2	3	4	5
1,5	✓	✓	✓	✓	✗
2,5	✓	✓	✓	✗	✗
4	✓	✓	✓	✗	✗
6	✓	✓	✗	✗	✗
10	✓	✓	✗	✗	✗
16	✓	✗	✗	✗	✗
25	✓	✗	✗	✗	✗

Remark: When you use more than 2 cables you have to be careful how those cables are inserted, due to insure proper pressure on each cable

Conductor cross-section [mm <sup>2</sup> ]	Number of single conductors, flexible Cu conductors without cable ferrule					
	1	2	3	4	5	6
1,5	✓	✓	✓	✓	✓	✓
2,5	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✗	✗	✗
10	✓	✓	✗	✗	✗	✗
16	✓	✗	✗	✗	✗	✗
25	✓	✗	✗	✗	✗	✗

Combination of rigid single-wire and flexible multi-wire Cu conductors is not allowed