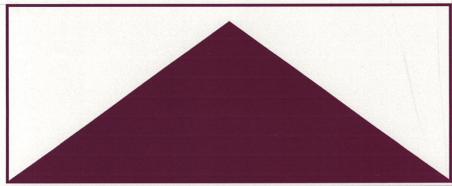


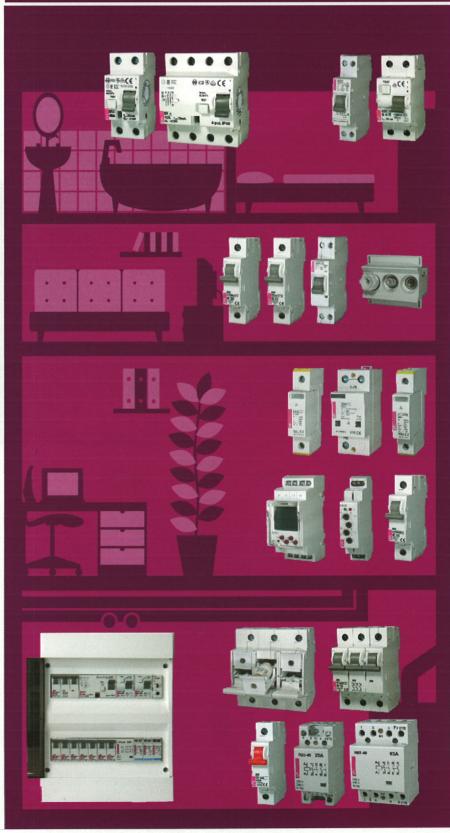
solutions

RESIDENTIAL AND COMMERCIAL INSTALLATIONS

ETI provides high-quality and integral solutions for protection of electrical installations in buildings. We supply all kinds of type D, D0 and C fuse-links, as well as MCB's and various types of residual current protection switches from ASTI group. In our sales program you will also find various types of switches and supervision & control devices of EVE group. Very important is also overvoltage protection ETITEC. All together shall be built, of course, into a distribution cabinet DIDO of your choice. The products are internationally certified and carry several quality marks.









RCBOs - Residual current circuit breakers with integral overcurrent protection KZS

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

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

→ Real contact position indication for easier identification, whether



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

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



→ Clearly marked terminals to ensure appropriate connection



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



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

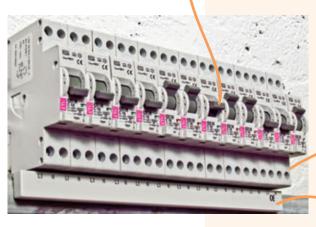


→ Sealing possibility



→ 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-2M Rated short-circuit capacity Rated current 6-40 A Rated current 6-40 A Rated current 6-40 A Rated current 6-40 A Rated current 6-40 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 cir $cuits\ with\ an\ increased\ requirements\ regarding\ touch\ voltage\ such\ as\ circuits\ of\ portable\ appliances,\ in\ kindergartens,$ schools, hospitals etc.

KZS-2M I _{Δn} = 10 mA						
l _n	Type A		Weight	Packaging		
[A]	Code No. B	Code No. C	[g]	[pcs]		
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	Type A		Type AC		Weight	Packaging	
[A]	Code No. B	Code No. C	Code No. B	Code No. C	[g]	[pcs]	
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	

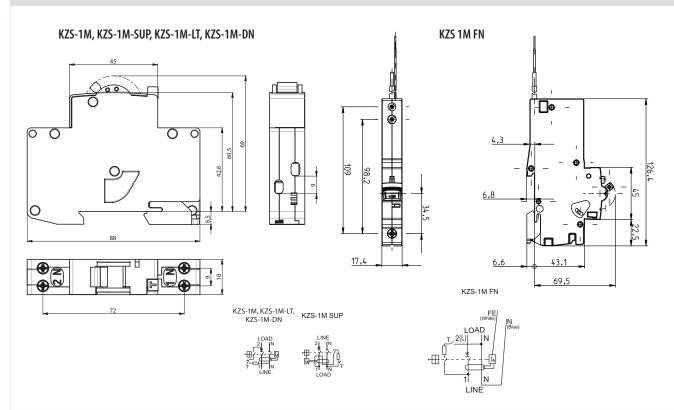
KZS-2M Ι _{Δn} = 100 mA							
I _n	Type A		Weight	Packaging			
[A]	Code No. B	Code No. C	[g]	[pcs]			
6	002173701	002173721	225	1/54			
10	002173702	002173722	225	1/54			
13	002173703	002173723	225	1/54			
16	002173704	002173724	225	1/54			
20	002173705	002173725	225	1/54			
25	002173706	002173726	225	1/54			
32	002173707	002173727	225	1/54			
40	002173708	002173728	225	1/54			

KZS-2M I _{An} = 300 mA							
I _n	Type A		Type AC		Weight	Packaging	
[A]	Code No. B	Code No. C	Code No. B	Code No. C	[g]	[pcs]	
6	002173401	002173421	002173301	002173321	225	1/54	
10	002173402	002173422	002173302	002173322	225	1/54	
13	002173403	002173423	002173303	002173323	225	1/54	
16	002173404	002173424	002173304	002173324	225	1/54	
20	002173405	002173425	002173305	002173325	225	1/54	
25	002173406	002173426	002173306	002173326	225	1/54	
32	002173407	002173427	002173307	002173327	225	1/54	
40	002173408	002173428	002173308	002173328	225	1/54	



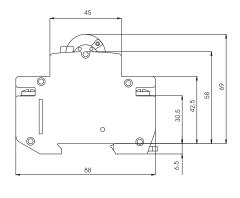
Technical data on page 67 39

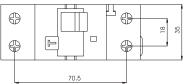
Technical data



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

Technical data				
Туре	INST	G/KV		
Rated voltage U _n	230 V AC			
Rated current I	6-40 A	4-40A		
Rated frequency f _n	50/60) Hz		
Rated short-circuit capacity	10.00	00 A		
Back-up fuse	100 A	l gG		
Tripping characteristic	В, С			
Туре	A, AC			
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 $I_{\Delta m}$	10.00	00A		
Terminals	1-25 mm²,	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	Number of single conductors, rigid, single-wire CU conductor				
[mm ²]	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 presure on each cable

Conductor cross- section	Number of single conductors, flexible Cu conductors without cable ferrule						
[mm²]	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

