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

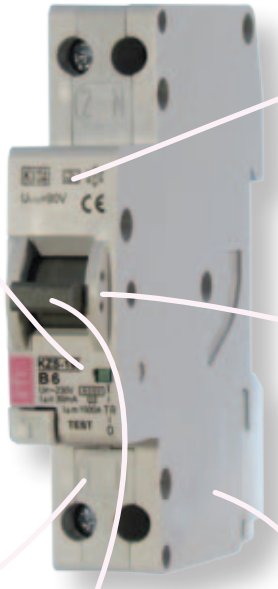
→ Combining the features of miniature circuit breaker and a residual current circuit breaker, functionally dependent on line voltage (minimum supply voltage 90V)

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

→ 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



→ 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.

→ 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

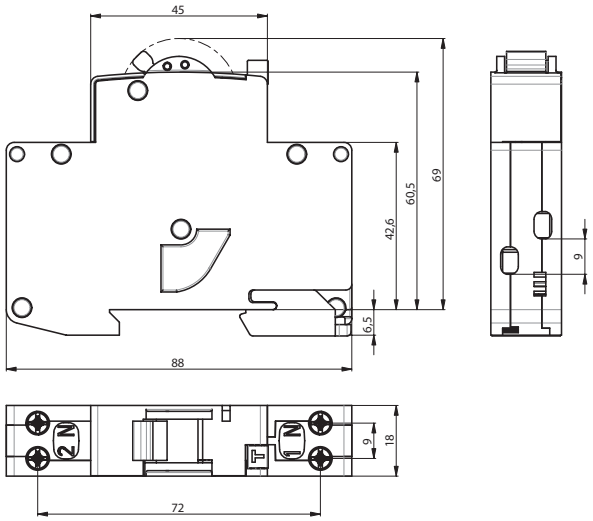
→ All necessary technical and installation information can be found on the front and side of the device

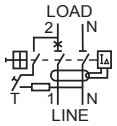
→ The terminals accept not only wires but also time saving busbars

→ 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 -1M

Technical data	
Rated voltage U_n	230 V AC
Rated current I_n	6-25 A
Minimal supply voltage U_{min}	90 V
Rated frequency f_n	50 Hz
Rated short-circuit capacity	6.000 A
Back-up fuse	100 A gG
Tripping characteristic	B, C
Rated residual current $I_{\Delta n}$	10, 30, 100 mA
Type of residual release	A, AC
Rated residual making and breaking capacity $I_{\Delta m}$	1500A
Terminals	1-10 mm^2, max. 1,5Nm
Width	18 mm
Mounting position	any
Standard	IEC 61009





Description - KZS -1M is a residual current circuit breaker with integral over-current protection, functionally dependent on line voltage.

Recommended for use in installations with high level of additional protection required (bathrooms, hospitals, kindergartens etc).
Used for fault and additional protection.

Residual current circuit breakers with integral overcurrent protection KZS 2M, 4M

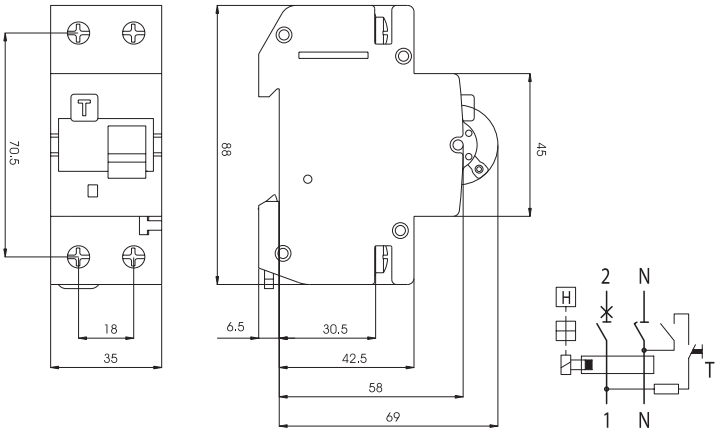
Description: KZS (KZS-2M, KZS-4M) is a residual current circuit breaker combining the features of a miniature circuit breaker and a residual current circuit breaker and is functionally independent on line voltage. Used primarily in circuits with an increased requirements regarding touch voltage such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

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

Technical data	
Rated voltage U_n	230 V AC
Rated current I_n	6-40 A
Rated frequency f_n	50 Hz
Rated short-circuit capacity	10.000 A
Back-up fuse	100 A gG
Tripping characteristic	B, C
Type	A, AC
Rated residual current $I_{\Delta n}$	10, 30, 100, 300, 500 mA
Rated residual making and breaking capacity $I_{\Delta m}$	10.000A
Terminals	1-25 mm², max. 3Nm
Width	36 mm
Mounting position	any
Standard	IEC 61009, EN 61009

Conductor cross-section [mm²]	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 presure on each cable

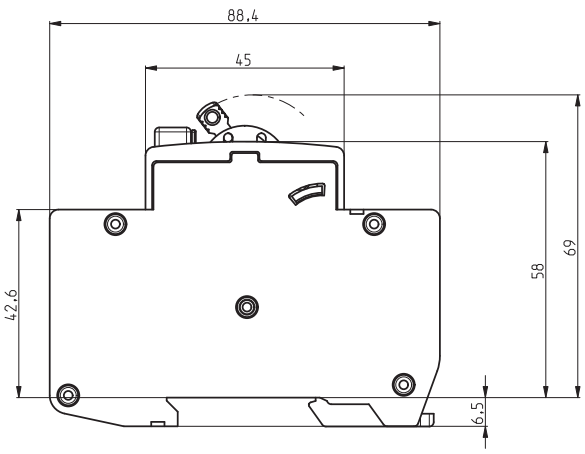


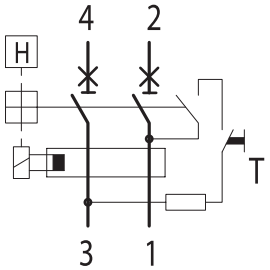
Conductor cross-section [mm²]	Number of single conductors, flexible Cu conductors without cable ferrule					
	1	2	3	4	5	6
1,5	✓	✓	✓	✓	✓	✓
2,5	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	×	×	×
10	✓	✓	×	×	×	×
16	✓	×	×	×	×	×
25	✓	×	×	×	×	×

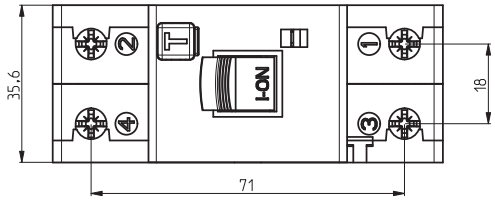
Combination of rigid single-wire and flexible multi-wire Cu conductors is not allowed

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

Technical data	
Rated voltage U_n	230 V AC
Rated current I_n	6-25 A
Rated frequency f_n	50 Hz
Rated short-circuit capacity	10.000 A
Back-up fuse	100 A gG
Tripping characteristic	B, C
Type	A
Rated residual current $I_{\Delta n}$	30 mA
Rated residual making and breaking capacity $I_{\Delta m}$	1500A
Terminals	1-25 mm², max. 3Nm
Width	36 mm
Mounting position	any
Standard	IEC 61009, EN 61009

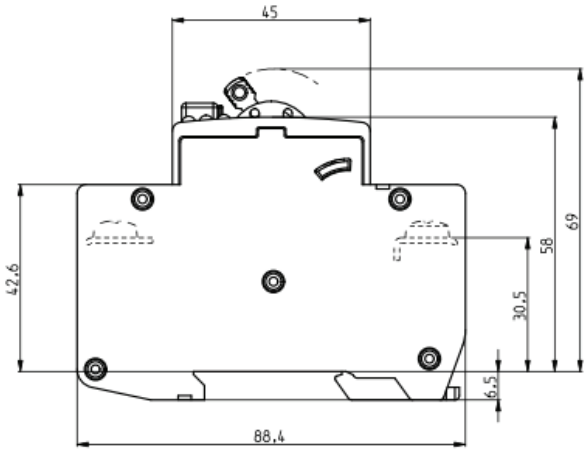


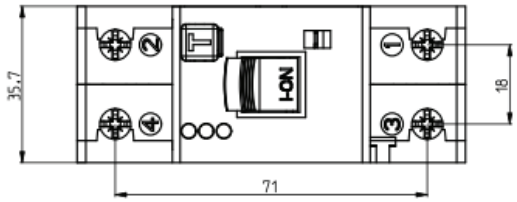


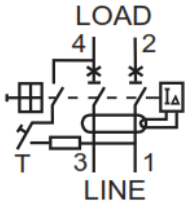


Residual current circuit breaker with integral overcurrent protection with LED status signalisation KZS 2M2p EDI

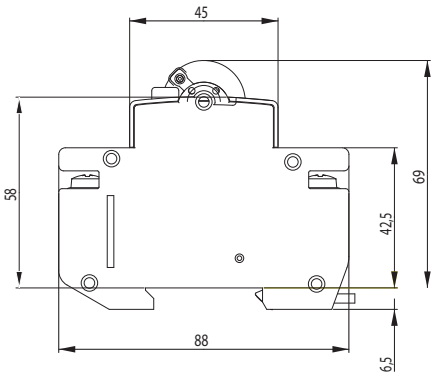
Technical data	
Rated voltage U_n	~230 V AC
Rated current I_n	6-25 A
Rated frequency f_n	50 Hz
Minimal supply voltage U_{min}	90 V
Min. LED operating voltage U_{min}	150 V
Rated short-circuit capacity	10.000 A
Back-up fuse	100 A gG
Tripping characteristic	B, C
Energy limiting class	3
Type of residual release	A
Rated residual current $I_{\Delta n}$	30 mA
Rated residual making and breaking capacity $I_{\Delta m}$	1500A
Index of protection	IP20
Overvoltage category	III
Ambient temperature	-25 °C ... +40 °C
Storage temperature	-40 °C ... +70 °C
Mounting position	any
Terminals	1-25 mm², max. 3 Nm
Width	36 mm
Standard	IEC 61009-2, IEC 61009-1

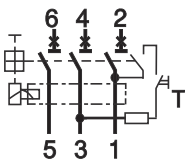




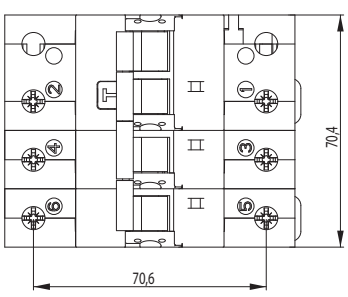


Residual current circuit breaker with integral overcurrent protection KZS-4M 3p





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 mm², max. 3 Nm
Width	72 mm
Mounting position	any
Standard	EN 61009-1



Conductor cross-section [mm²]	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 presure on each cable

Conductor cross-section [mm²]	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

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	25/35 mm², max. 2,4 Nm
Width	70 mm
Mounting position	any
Standard	EN 61009-1