

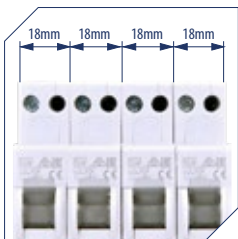
ASTI Residual Current Circuit Breakers with Integral Overcurrent Protection - RCBOs

Residual current circuit breaker with integral overcurrent protection KZS -1M

By combining both the MCB (protection against overcurrent faults) and RCCB (protection against residual currents) functions, the RCBO provides enhanced safety and protection for both people and electrical systems. It is commonly used in residential, commercial and industrial electrical installations with operating temperature down to -35° C.

SPACE SAVING

Two devices (MCB and an RCCB) in a single 1-module unit, switching active and neutral pole.



OVERVOLTAGE PROTECTION

A special version with built-in overvoltage protection KZS-1M DN is also available.



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

Line voltage-dependent differential tripping (minimum supply voltage 85V)

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



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

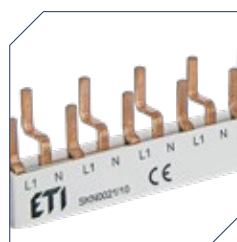


The middle (trip) position of the toggle indicates electric fault tripping

The terminals accept not only wires but also time saving busbars



The possibility of connecting to SKN-type busbars



Easy removal from existing busbar system



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



Clearly marked terminals ensure appropriate connection

Increased opening on the N pole (size PZ2 screw drive)



Sealing possibility



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 breaker with integral overcurrent protection KZS -1M DN

Rated short-circuit capacity
6 kA

Rated current
6 - 25 A

Tripping characteristic
B, C

Rated residual current
0,03 A

Description:

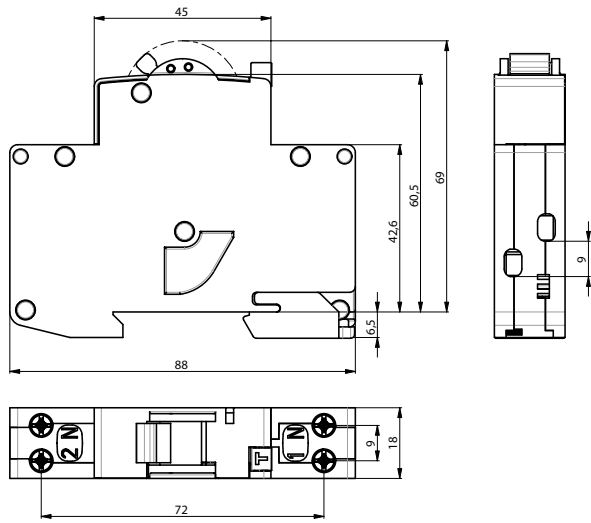
KZS -1M DN is a residual current circuit breaker with integral overcurrent protection and added overvoltage protection according to EN 50550.

The device is functionally dependent on line voltage and operates at voltages above 90V.

KZS 1M-DN also has a sealing possibility.



Technical data

Type	KZS 1M DN
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 $I_{\Delta n}$	30 mA
Type of residual release	A, AC
Rated residual making and breaking capacity $I_{\Delta n}$	1500A
Terminals	1-10 mm ² , max. 1,5Nm
Terminal screw	M4 (Pozidrive PZ2)
Width	18 mm
Mounting position	any
Standard	IEC 61009, EN 50550
Length of neutral conductor	-
Operating temperature	-25°C ... +40°C
Storage temperature	-40°C ... +60°C



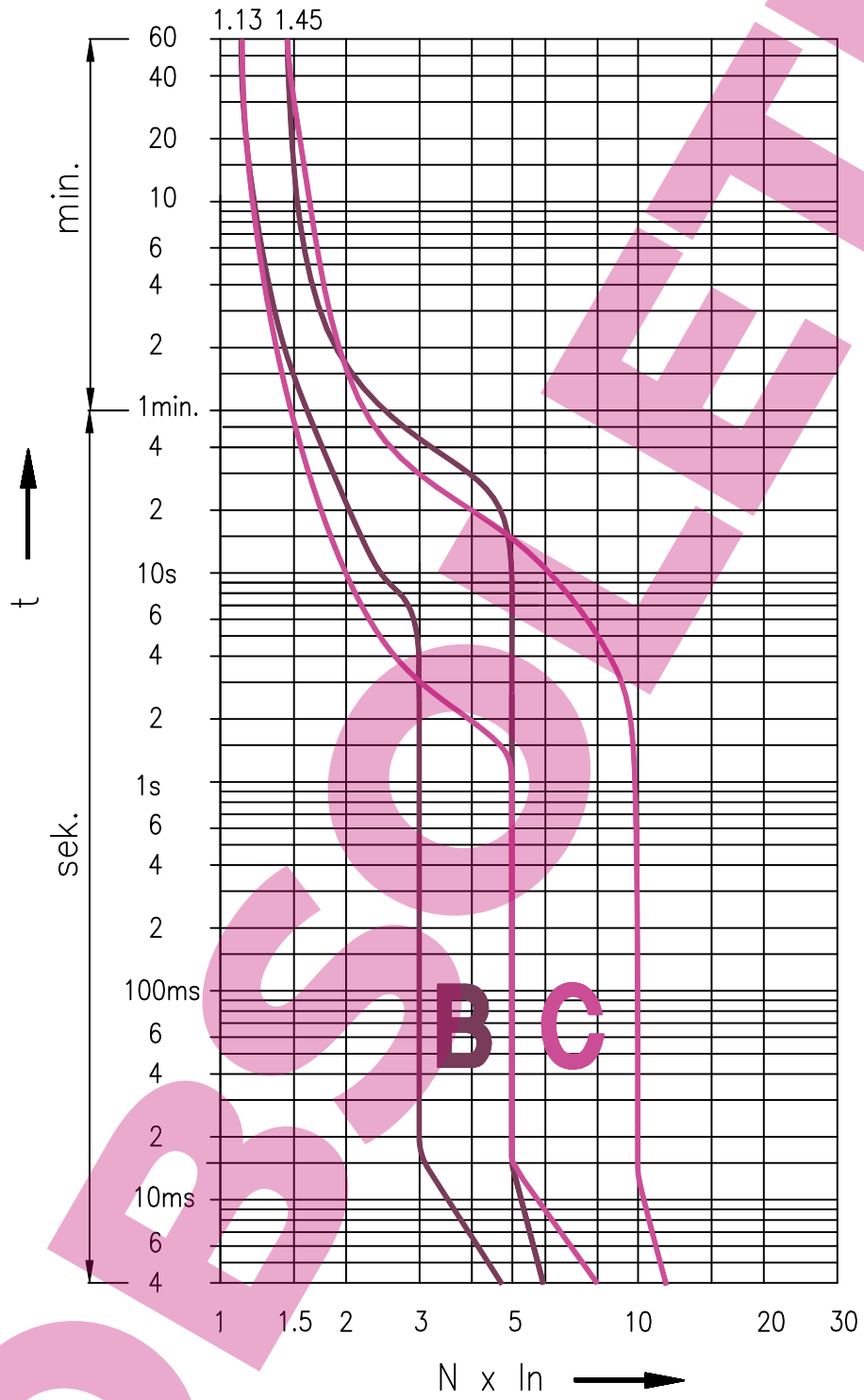
KZS 1M DN	
Voltage [V]	Tripping time [s]
255	/
275	$3s < t < 15s$
300	$1s < t < 5s$
350	$0,25s < t < 0,75s$
400	$0,07s < t < 0,20s$

KZS - 1M DN

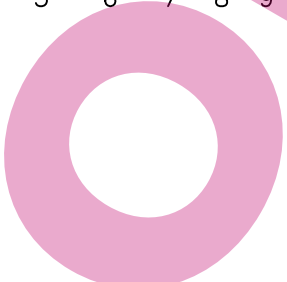
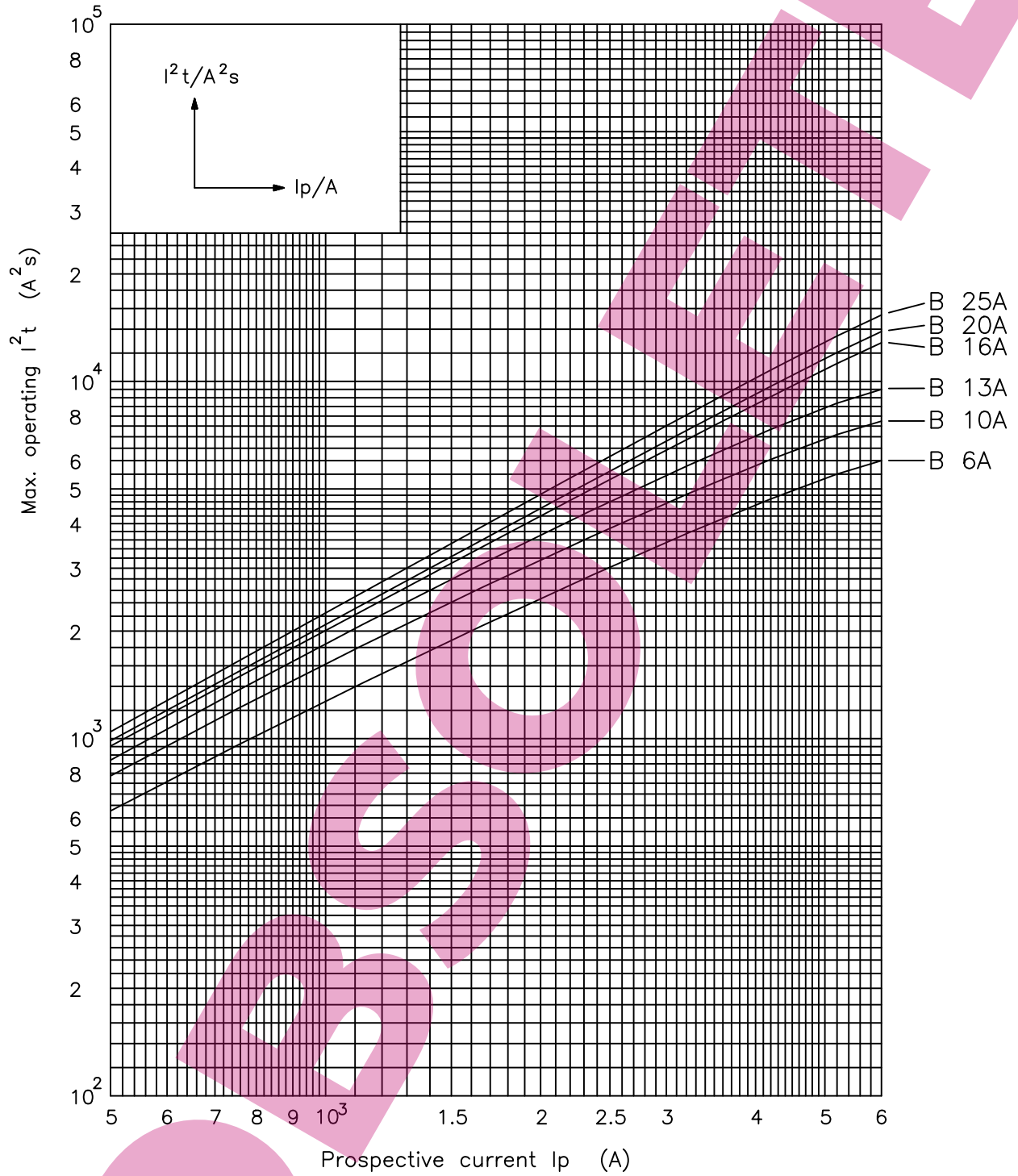
I_n [A]	$I_{\Delta n}$ [A]	Type A Characteristic B	Code No. B	Type A Characteristic C	Code No. C		
6	0,03	KZS-1M-DN 1p+N A B6/0.03 6kA	002175141	KZS-1M-DN 1p+N A C6/0.03 6kA	002175151	115	1/72
10		KZS-1M-DN 1p+N A B10/0.03 6kA	002175142	KZS-1M-DN 1p+N A C10/0.03 6kA	002175152	115	1/72
13		KZS-1M-DN 1p+N A B13/0.03 6kA	002175143	KZS-1M-DN 1p+N A C13/0.03 6kA	002175153	115	1/72
16		KZS-1M-DN 1p+N A B16/0.03 6kA	002175144	KZS-1M-DN 1p+N A C16/0.03 6kA	002175154	115	1/72
20		KZS-1M-DN 1p+N A B20/0.03 6kA	002175145	KZS-1M-DN 1p+N A C20/0.03 6kA	002175155	115	1/72
25		KZS-1M-DN 1p+N A B25/0.03 6kA	002175146	KZS-1M-DN 1p+N A C25/0.03 6kA	002175156	115	1/72



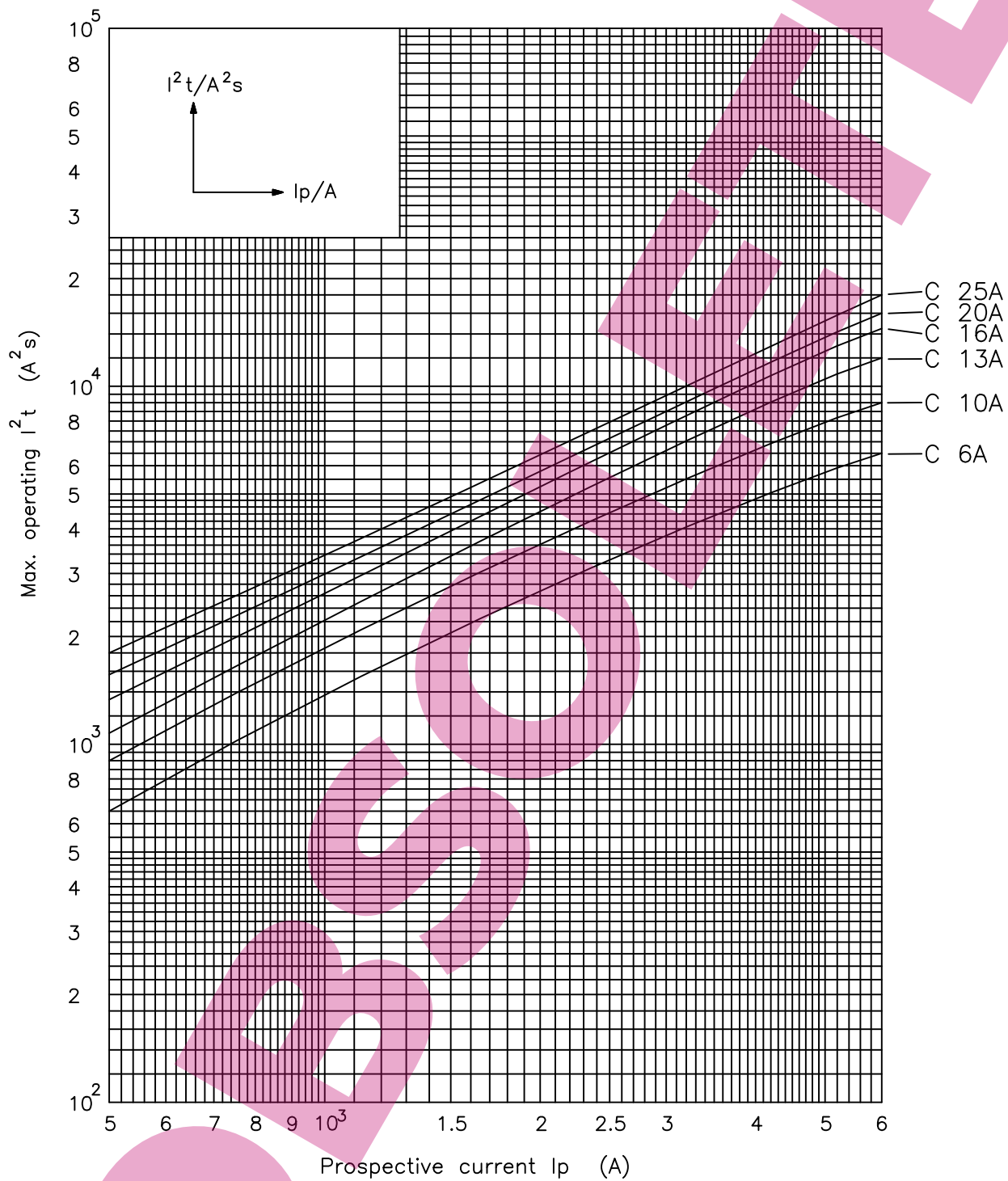
Time current characteristics I/t, KZS-1M



Melting energy characteristics I²t KZS-1M



Melting energy characteristics I^2t KZS-1M



Cut-off current characteristics KZS-1M

