

Surge Protection for Low Voltage Power Systems



SafeBloc B(R) 25 (2+0) TCG



2017
CATALOG

Compact Single Pole SPD SafeBloc B® 25 (2+0) TCG

Class I • Class II • Type 1 • Type 2

12.5kA Series



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L - PE, N - PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Safety: High TOV Immunity
 Leakage Current: No Leakage Current
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

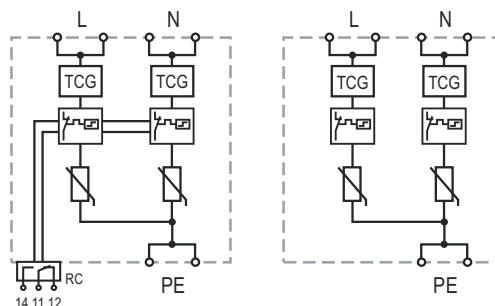
Technical Data

SafeBloc B(R) 25/xxx (2+0) TCG

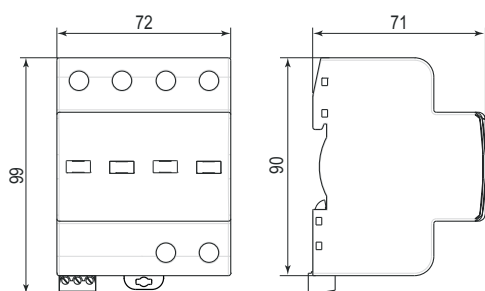
SafeBloc B(R) 25/xxx (2+0) TCG		150	275
Electrical			
Nominal AC Voltage (50/60 Hz)	U _o	120 V	230 V
Maximum Continuous Operating Voltage (AC)	U _c	150 V	275 V
Nominal Discharge Current (8/20 μs)	I _n	20 kA	
Maximum Discharge Current (8/20 μs)	I _{max}	50 kA	
Impulse Discharge Current (10/350 μs)	I _{imp}	12.5 kA	
Total Discharge Current (10/350 μs)	I _{total}	25 kA	
Specific Energy	W/R	39 kJ/Ω	
Charge	Q	6.25 As	
Voltage Protection Level	U _p	< 1.2 kV	< 1.5 kV
Response Time	t _A	< 25 ns	
Back-Up Fuse (if mains > 250 A)		250 A gG	
Short-Circuit Current Rating (AC)	I _{SCCR}	50 kA	
TOV withstand 5s	U _T	228 V	438 V
Number of Ports		1	
Mechanical & Environmental			
Temperature Range	T _a	-40 °C to +85 °C	
Permissible Humidity	RH	5%...95%	
Terminal Screw Torque	M _{max}	3.0 Nm	
Conductor Cross Section (max)		35 mm² (solid) / 25 mm² (stranded)	
Mounting		35 mm DIN Rail, EN 60715	
Degree of Protection		IP 20	
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0	
Thermal Protection		Yes	
Fault Indication		Red Flag	
Remote Contacts (RC)		Optional	
RC Switching Capacity		AC: 250V/0.5A; 125V/3A	
RC Terminal Cross Section (max)		1.5 mm²	
RC Terminal Screw Torque	M _{max}	0.25 Nm	
Order Information			
Order Code		150	275
SAFEBLOC B 25/xxx (2+0) TCG		54.0507	54.0509
SAFEBLOC BR 25/xxx (2+0) TCG (with remote contacts)		54.0508	54.0510

Legend

- L Line
 N Neutral
 PE Protective Earth
 RC Remote Contacts Optional
 TCG Thermal Control Function with No Leakage



Dimensions & Packaging [mm]

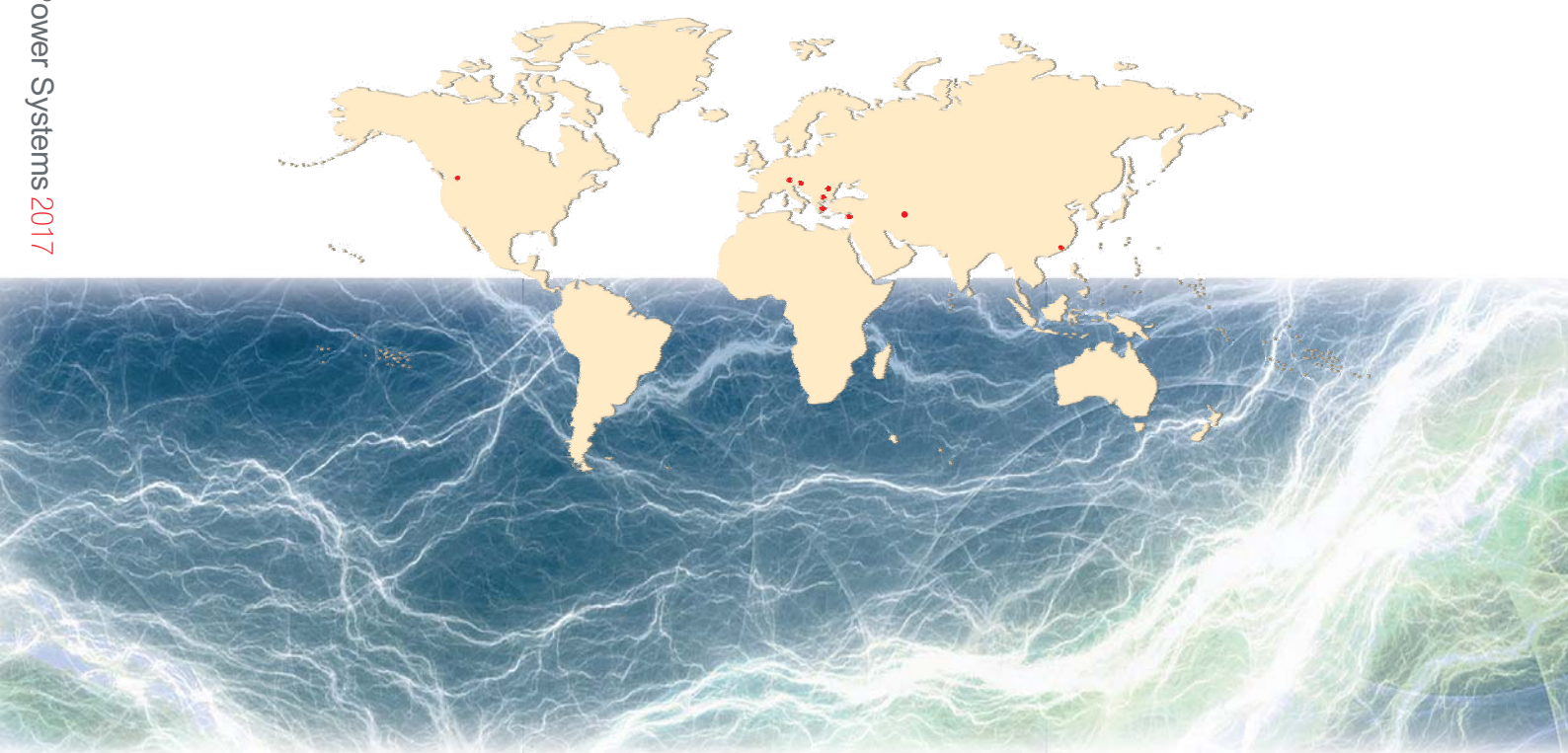


Dimensions & Packaging

SafeBloc B 25/xxx (2+0) TCG	150	275
Single Unit Weight	320 g	420 g
Single Unit DIN 43880 Dimension	4 TE	
Packaging Dimensions (H × W × L)	109 × 77 × 80 mm	
Minimum Order Quantity	3 Units	
SafeBloc BR 25/xxx (2+0) TCG	150	275
Single Unit Weight	330 g	430 g
Single Unit DIN 43880 Dimension	4 TE	
Packaging Dimensions (H × W × L)	109 × 77 × 80 mm	
Minimum Order Quantity	3 Units	

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