

SafeBloc B(R) 25 (1+0) WT TCG**Class I • Class II • Type 1 • Type 2**

Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT (only L-N)
 Mode of Protection: L-PE, N-PE, L-PEN, L-N
 Surge Ratings: $I_{imp} = 25 \text{ kA}$ (10/350 μs)
 $I_n = 25 \text{ kA}$ (8/20 μs)
 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 (1+0) WT TCG****750****Electrical**

Nominal AC Voltage (50/60 Hz)	U_o	600V
Maximum Continuous Operating Voltage (AC)	U_c	750V
Nominal Discharge Current (8/20 μs)	I_n	25 kA
Maximum Discharge Current (8/20 μs)	I_{max}	80 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	25 kA
Specific Energy	W/R	156 kJ/Ω
Charge	Q	12.5 As
Voltage Protection Level	U_p	< 3.0 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	1000V
Number of Ports		1

Mechanical & Environmental

Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Humidity	RH	5%...95%
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
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)		1.5mm ² (Solid) / 16 AWG (Solid)
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]

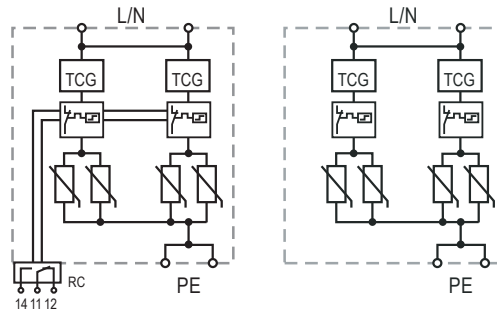
Order Information

Order Code	750
SAFELOC B 25/xxx (1+0) WT TCG	54.0594
SAFELOC BR 25/xxx (1+0) WT TCG (with remote contacts)	54.0595

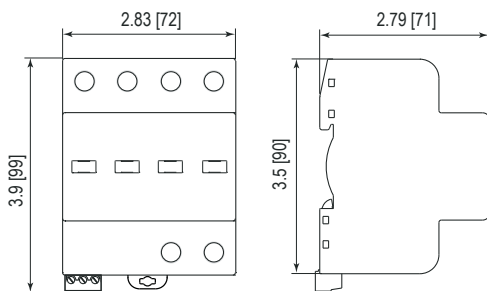
Internal Configuration

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 (1+0) WT TCG

750

Single Unit Weight	pounds [grams]	1.763 [800]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]
Minimum Order Quantity		3 Units

SafeBloc BR 25/xxx (1+0) WT TCG

750

Single Unit Weight	pounds [grams]	1.785 [810]
Single Unit DIN 43880 Dimension		4 TE
Packaging Dimensions (H x W x L)		4.2 x 3 x 3.1" [109 x 77 x 80 mm]
Minimum Order Quantity		3 Units

 inches
 [mm]

Information contained in this document is subject to
change at any time without notice.

