

**SafeBloc B(R) 12.5 (1+0) WT TCG**

**Class I • Class II • Type 1 • Type 2**



**Location of Use:** Main Distribution Boards  
**Network Systems:** TN-S, TN-C  
**Mode of Protection:** L-PE, N-PE, L-PEN, L-N  
**IEC/EN Category:** Class I+II / Type 1+2  
**Safety:** High TOV Immunity  
**Technology:** Hybrid  
**Leakage Current Free:** Yes  
**Housing:** Compact Design  
**Compliance:** IEC 61643-11:2011  
 EN 61643-11:2012

**Technical Data**

**SafeBloc B(R) 12.5/xxx (1+0) WT TCG**

**750**

**IEC Electrical**

Nominal AC Voltage (50/60 Hz)	$U_o$	600V
Maximum Continuous Operating Voltage (AC)	$U_c$	750V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$	12.5 kA
Maximum Discharge Current (8/20 $\mu$ s)	$I_{max}$	40 kA
Impulse Discharge Current (10/350 $\mu$ s)	$I_{imp}$	12.5 kA
Specific Energy	W/R	39 kJ/ $\Omega$
Charge	Q	6.25 As
Voltage Protection Level	$U_p$	< 2.6 kV
Response Time	$t_A$	< 25 ns
Overcurrent Protection (max)		250 A gG
Short-Circuit Current Rating (AC)	$I_{SCCR}$	50 kA
TOV Withstand 120min	$U_T$	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 <sup>2</sup> (Solid, Stranded) / 25mm <sup>2</sup> (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
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 <sup>2</sup> (Solid) / 16 AWG (Solid)
RC Terminal Screw Torque	$M_{max}$	2.2 lbf-in [0.25 Nm]

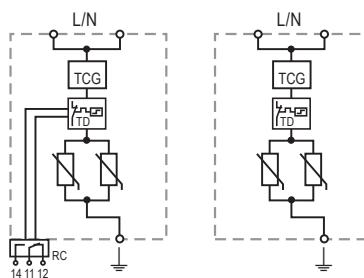
**Order Information**

<b>Order Code</b>	<b>750</b>
SAFELOC B 12.5/xxx (1+0) WT TCG	54.0590
SAFELOC BR 12.5/xxx (1+0) WT TCG (with remote contacts)	54.0591

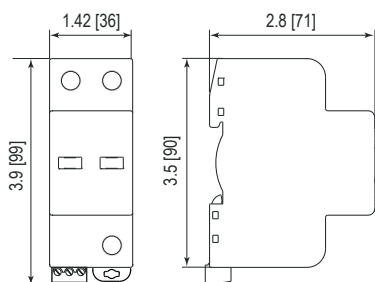
Internal Configuration

Legend

- L Line Conductor Terminal
- N Neutral Conductor Terminal
- ⏏ PE Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TCG Thermal Control Function with No Leakage
- TD Thermal Disconnecter



Complete Unit



Single Unit Dimensions & Packaging

<b>SafeBloc B 12.5/xxx (1+0) WT TCG</b>		<b>750</b>
Weight	pounds [grams]	.959 [435]
DIN 43880 Dimension		2 TE / 1.42" [36]
Packaging Dimensions (H x W x L)		3.1 x 4.4 x 11.7" [79 x 112 x 298 mm]
Standard Order Quantity		7 Units
<b>SafeBloc BR 12.5/xxx (1+0) WT TCG</b>		<b>750</b>
Weight	pounds [grams]	.970 [440]
DIN 43880 Dimension		2 TE / 1.42" [36]
Packaging Dimensions (H x W x L)		3.1 x 4.4 x 11.7" [79 x 112 x 298 mm]
Standard Order Quantity		7 Units

inches  
[mm]

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

