

ProBloc T1SG 3+1**Class I • Class II • Class III • Type 1 • Type 2 • Type 3**

Location of Use: Main Distribution Boards
 Network Systems: TT, TN-S
 Mode of Protection: L-N, N-PE
 IEC/EN Category: Class I+II+III / Type 1+2+3
 Technology: Spark Gap
 Leakage Current Free: Yes
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012+A11:2018

Technical Data**ProBloc T1SG-xxx-3+1(-R)****255****IEC Electrical**

Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) / (N-PE) U_c	255V / 305V
Nominal Discharge Current (8/20µs)	(L-N) / (N-PE) I_n	20kA / 50kA
Maximum Discharge Current (8/20µs)	(L-N) / (N-PE) I_{max}	50kA / 100kA
Impulse Discharge Current (10/350µs)	(L-N) / (N-PE) I_{imp}	12.5kA / 50kA
Specific Energy	(L-N) / (N-PE) W/R	39kJ/Ω / 625kJ/Ω
Charge	(L-N) / (N-PE) Q	6.25As / 25As
Open Circuit Voltage of Combination Wave Generator (1.2/50µs) (L-N) / (N-PE)	U_{oc}	6kV / 6kV
Short Circuit Current of Combination Wave Generator (8/20µs) (L-N) / (N-PE)	I_{cw}	3kA / 3kA
Voltage Protection Level	(L-N) / (N-PE) U_p	1500V / 1500V
Response Time	(L-N) / (N-PE) t_A	< 100ns / < 100ns
Overcurrent Protection (max)		250A gG
Short-Circuit Current Rating (AC)	(L-N) I_{SCCR}	25kA
Follow Current Interrupt Rating (AC)	(L-N) / (N-PE) I_{fi}	25kA / 100A
TOV Withstand 120min	(L-N) U_T	442V
TOV Withstand 200ms	(N-PE) U_T	1200V
Number of Ports		1

Additional Electrical Parameters - Standard (Tests performed within Raycap testing laboratory only)

Residual Voltage at 5 kA (8/20 µs)	(L-N) / (N-PE) U_{res}	1200V / 305V
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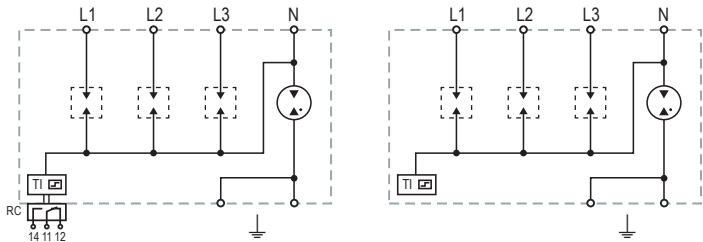
Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Altitude (max)		13123 ft [4000m]
Terminal Screw Torque	M_{max}	40 lbf-in [4.5Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35mm ² (Solid, Stranded) / 25mm ² (Flexible)
Mounting		35mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A, 125V/0.1A; DC: 48V/0.5A, 24V/0.5A, 12V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5mm ² (Solid)

Internal Configuration

Legend

- L Line Conductor Terminal
- N Neutral Conductor Terminal
- PE Conductor Terminal
- RC Remote Contacts Terminal (Optional)
- TI Thermal Indicator



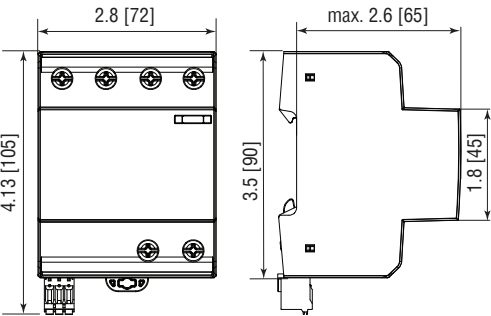
ProBloc T1SG-xxx-3+1(-R)

Order Information

Order Code	255
ProBloc T1SG-xxx-3+1	53.0007
ProBloc T1SG-xxx-3+1-R (with remote contacts)	53.0008

Dimensions & Packaging

inches [mm]



Complete Unit Dimensions & Packaging

ProBloc T1SG-xxx-3+1	255
Weight	pounds [grams] 0.948 [430]
ProBloc T1SG-xxx-3+1-R	
Weight	pounds [grams] 0.952 [432]
DIN 43880 Dimension	4 TE / 2.84 [72]
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity	4 Units

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