

ProBloc T1SG 1+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
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012+A11:2018

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

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

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

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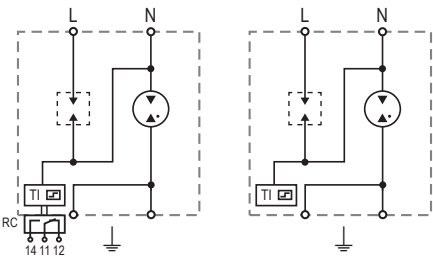
Mechanical & Environmental

Operating Temperature Range	T_a	-40 °F to +185 °F [-40 °C to +85 °C]
Permissible Operating Humidity	RH	5%...95%
Pollution Degree		2
Altitude (max)		13123 ft [4000 m]
Terminal Screw Torque	M_{max}	40 lbf-in [4.5 Nm]
Conductor Cross Section (max)		2 AWG (Solid, Stranded)/4 AWG (Flexible) 35 mm ² (Solid, Stranded)/25 mm ² (Flexible)
Mounting		35 mm 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)/1.5 mm ² (Solid)
Overvoltage Category		III

Internal Configuration

Legend

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

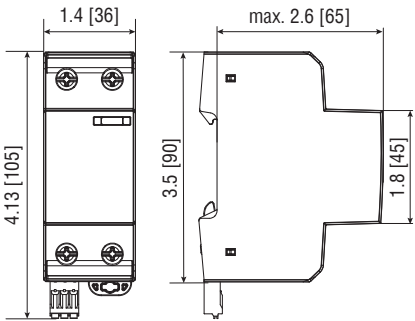


Order Information

Order Code	255
ProBloc T1SG-xxx-1+1	53.0003
ProBloc T1SG-xxx-1+1-R (with remote contacts)	53.0004

Dimensions & Packaging

inches [mm]



Complete Unit

ProBloc T1SG-xxx-1+1	255
Weight	pounds [grams] 0.503 [228]
ProBloc T1SG-xxx-1+1-R	
Weight	pounds [grams] 0.507 [230]
DIN 43880 Dimension	2 TE / 1.42" [36mm]
Packaging Dimensions (HxWxL)	4.3 x 4.5 x 13.8" [109 x 115 x 352 mm]
Standard Order Quantity	7 Units