DATA SHEET

Lightning and Overvoltage Protection

ProBloc B(R) 100 (3+1)

Class I • Class II • Type 1 • Type 2

25 kA Series

Location of Use: Main Distribution Boards
Network Systems: TN-S, TT
Mode of Protection: L-N, N-PE
IEC/EN Category: Class I+II / Type 1+2
Housing: Compact Design
Compliance: IEC 61643-11:2011
EN 61643-11:2012

Technical Data

ProBloc B(R) 100/xxx (3+1)			275*	320*
IEC Electrical				
Nominal AC Voltage (50/60 Hz)		U_o	230 V	230 V
Maximum Continuous Operating Voltage (AC)	(L-N)	U_c	275 V	320 V
	(N-PE)	U_c	255 V	
Nominal Discharge Current (8/20 µs)	(L-N)/(N-PE)	I_n	25 kA / 100 kA	
Maximum Discharge Current (8/20 µs)	(L-N)/(N-PE)	I_{max}	100 kA / 100 kA	
Impulse Discharge Current (10/350 µs)	(L-N)/(N-PE)	I_{imp}	25 kA / 100 kA	
Total Discharge Current (10/350 µs)		I_{total}	100 kA	
Specific Energy	(L-N)/(N-PE)	W/R	156 kJ/Ω / 2.5 MJ/Ω	
Charge	(L-N)/(N-PE)	Q	12.5 As / 50 As	
Voltage Protection Level	(L-N)/(N-PE)	U_p	< 1.5 kV / < 1.5 kV	< 1.5 kV / < 1.5 kV
Follow Current Interrupt Rating	(N-PE)	I_{fi}	100 A_{RMS}	
Response Time	(L-N)/(N-PE)	t_A	< 25 ns / < 100 ns	
Overcurrent Protection (max)	(L-N)		250 A gG	
Short-Circuit Current Rating (AC)		I_{SCCR}	50 kA	
TOV Withstand 5s	(L-N)	U_T	334 V	334 V
TOV Safe Fail 120min	(L-N)	U_T	438 V	438 V
TOV Withstand 200 ms	(N-PE)	U_T	1200 V / 300 A	
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 (max)		M_{max}	26.5 lbf·in [3.0 Nm]	
Conductor Cross Section (max)			2 AWG (Solid, Stranded) / 4 AWG (Flexible)	
			35mm² (Solid, Stranded) / 25mm² (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	(L-N)/(N-PE)		Yes / No	
Fault Indication	(L-N)/(N-PE)		Red Flag / No	
Remote Contacts (RC)			Optional	
RC Switching Capacity			AC: 250 V / 0.5 A; 125 V / 3 A	
RC Terminal Cross Section (max)			1.5mm² (Solid) / 16 AWG (Solid)	
RC Terminal Screw Torque		M_{max}	2.2 lbf·in [0.25 Nm]	
Order Information				
Order Code			275*	320*
ProBloc B 100/xxx (3+1)			56.0614	56.0616
ProBloc BR 100/xxx (3+1) (with remote contacts)			56.0615	56.0617

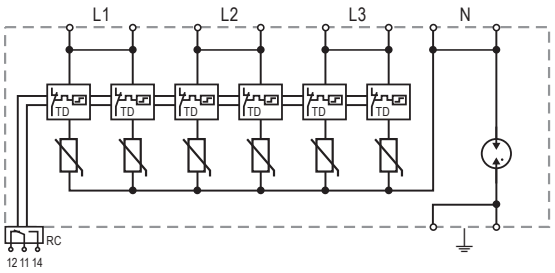
**OVE Certified*

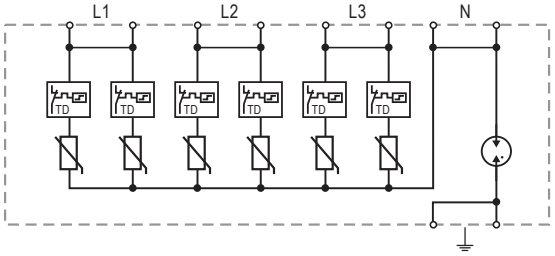
Information contained in this document is subject to change at any time without notice.

Internal Configuration

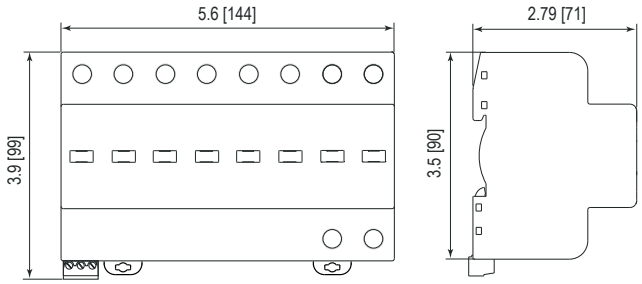
Legend

L	*Line Conductor Terminal*
N	*Neutral Conductor Terminal*
⏚	*PE Conductor Terminal*
RC	*Remote Contacts Terminal (Optional)*
TD	*Thermal Disconnector*





Complete Unit



Single Unit Dimensions & Packaging			
ProBloc B 100/xxx (3+1)		**275***	**320***
Weight	pounds	2.50	2.50
	grams	1135	1135
DIN 43880 Dimension		8 TE / 5.66" [144]	
Packaging Dimensions (H × W × L)		3.1 × 4.4 × 11.7" [79 × 112 × 298 mm]	
Standard Order Quantity		2 Units	
ProBloc BR 100/xxx (3+1)		**275***	**320***
Weight	pounds	2.53	2.53
	grams	1150	1150
DIN 43880 Dimension		8 TE / 5.66" [144]	
Packaging Dimensions (H × W × L)		3.1 × 4.4 × 11.7" [79 × 112 × 298 mm]	
Standard Order Quantity		2 Units	

inches
[mm]

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