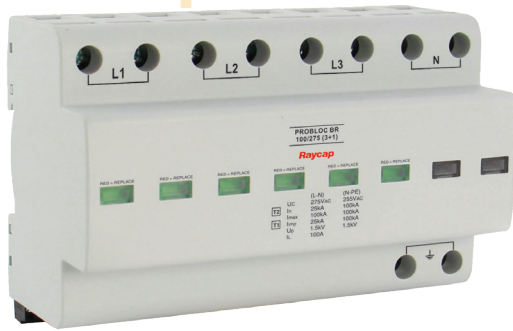


Lightning and Overvoltage Protection
ProBloc B(R) 100 (3+1)
 Class I • Class II • Type 1 • Type 2



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

			275*	320*
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 μ s)	(L-N)/(N-PE)	I_n	25 kA / 100 kA	
Maximum Discharge Current (8/20 μ s)	(L-N)/(N-PE)	I_{max}	100 kA / 100 kA	
Impulse Discharge Current (10/350 μ s)	(L-N)/(N-PE)	I_{imp}	25 kA / 100 kA	
Total Discharge Current (10/350 μ s)		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 200ms	(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)	
			35mm ² (Solid, Stranded) / 25mm ² (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: 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

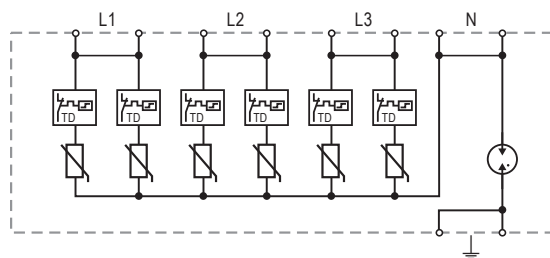
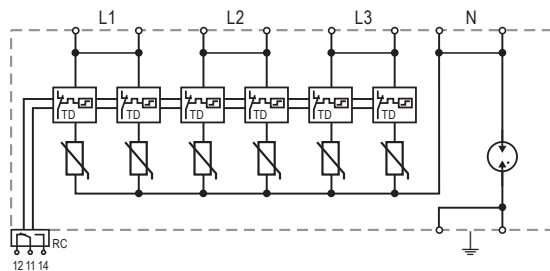
		275*	320*
Order Code			
ProBloc B 100/xxx (3+1)		56.0614	56.0616
ProBloc BR 100/xxx (3+1) (with remote contacts)		56.0615	56.0617

*OVE Certified

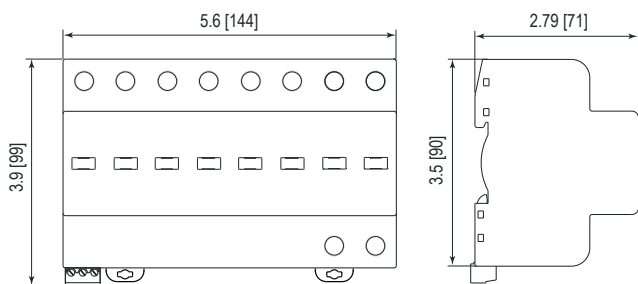
Internal Configuration

Legend

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



Complete Unit



Single Unit Dimensions & Packaging

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

inches
[mm]

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

