

Compact Multi-pole SPD
ProBloc B(R) 50 (4+0)
Class I • Class II • Type 1 • Type 2



Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE, N-PE
 Surge Ratings: $I_{imp} = 12.5 \text{ kA (10/350}\mu\text{s)}$
 $I_n = 20 \text{ kA (8/20}\mu\text{s)}$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

ProBloc B(R) 50/xxx (4+0)		150	275*	320*	440
Electrical					
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	U_c	150V	275V	320V	440V
Nominal Discharge Current (8/20 μs)	I_n			20 kA	
Maximum Discharge Current (8/20 μs)	I_{max}			50 kA	
Impulse Discharge Current (10/350 μs)	I_{imp}			12.5 kA	
Total Discharge Current (10/350 μs)	I_{total}			50 kA	
Specific Energy	W/R			39 kJ/ Ω	
Charge	Q			6.25 As	
Voltage Protection Level	U_p	< 1.0 kV	< 1.5 kV	< 1.5 kV	< 1.9 kV
Response Time	t_A			< 25 ns	
Back-Up Fuse (if mains > 250 A)				250 A gG	
Short-Circuit Current Rating (AC)	I_{SCCR}			50 kA	
TOV Withstand 5s	U_T	174V	334V	334V	585V
TOV Safe Fail 120min	U_T	229V	438V	438V	769V
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 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		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 ² (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	M_{max}	2.2 lbf-in [0.25 Nm]			

Order Information

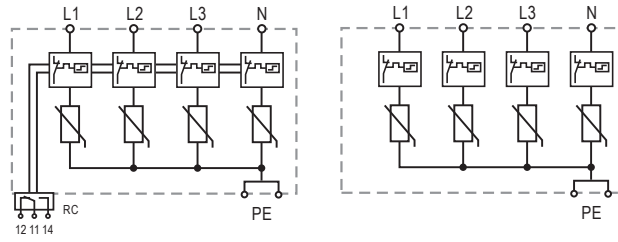
Order Code	150	275	320	440
ProBloc B 50/xxx (4+0)	56.0532	56.0534	56.0536	56.0540
ProBloc BR 50/xxx (4+0) (with remote contacts)	56.0533	56.0535	56.0537	56.0541

*OVE Certified

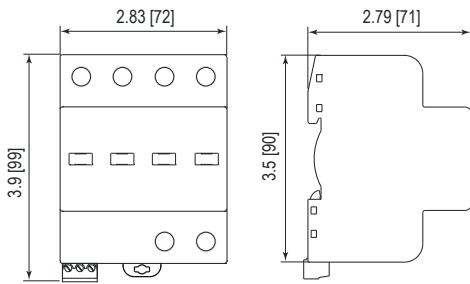
Internal Configuration

Legend

- L Line
- N Neutral
- PE Protective Earth
- RC Remote Contacts Optional



Dimensions & Packaging



Dimensions & Packaging					
ProBloc B 50/xxx (4+0)		150	275	320	440
Single Unit Weight	pounds	1.212	1.521	1.521	1.631
	grams	550	590	590	740
Single Unit DIN 43880 Dimension				4 TE	
Packaging Dimensions (H x W x L)				4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity				3 Units	
ProBloc BR 50/xxx (4+0)		150	275	320	440
Single Unit Weight	pounds	1.234	1.234	1.322	1.653
	grams	560	560	600	750
Single Unit DIN 43880 Dimension				4 TE	
Packaging Dimensions (H x W x L)				4.2 x 3 x 3.1" [109 x 77 x 80 mm]	
Minimum Order Quantity				3 Units	

inches
[mm]

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

