

Compact Multi-pole SPD  
**ProBloc B(R) 50 (2+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:  $I_{imp} = 25 \text{ kA (10/350 } \mu\text{s)}$   
 $I_n = 25 \text{ kA (8/20 } \mu\text{s)}$   
 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 (2+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 $\mu\text{s}$ )	$I_n$			25 kA	
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$			100 kA	
Impulse Discharge Current (10/350 $\mu\text{s}$ )	$I_{imp}$			25 kA	
Total Discharge Current (10/350 $\mu\text{s}$ )	$I_{total}$			50 kA	
Specific Energy	W/R			156 kJ/ $\Omega$	
Charge	Q			12.5 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 <sup>2</sup> (Solid, Stranded) / 25mm <sup>2</sup> (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 <sup>2</sup> (Solid) / 16 AWG (Solid)			
RC Terminal Screw Torque	$M_{max}$	2.2 lbf-in [0.25 Nm]			

**Order Information**

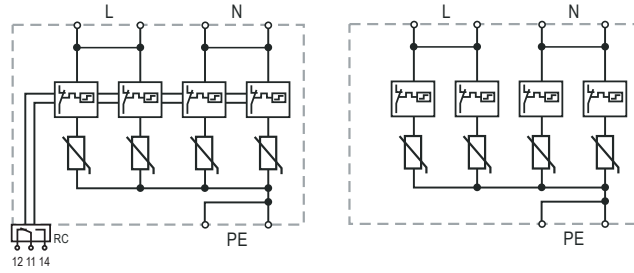
Order Code	150	275	320	440
ProBloc B 50/xxx (2+0)	56.0572	56.0574	56.0576	56.0580
ProBloc BR 50/xxx (2+0) (with remote contacts)	56.0573	56.0575	56.0577	56.0581

\*OVE Certified

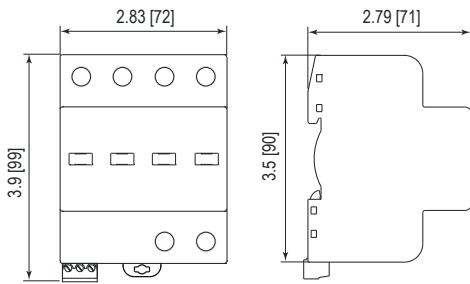
Internal Configuration

Legend

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



Dimensions & Packaging



Dimensions & Packaging

		150	275	320	440
<b>ProBloc B 50/xxx (2+0)</b>					
Single Unit Weight	pounds	1.014	1.234	1.234	1.499
	grams	460	560	560	680
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			
<b>ProBloc BR 50/xxx (2+0)</b>					
Single Unit Weight	pounds	1.036	1.256	1.256	1.521
	grams	470	570	570	690
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.

