

Compact Multi-pole SPD
ProBloc B(R) 50 (1+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
 Surge Ratings: $I_{imp} = 25\text{ kA} / 50\text{ kA} (10/350\mu\text{s})$
 $I_n = 25\text{ kA} / 50\text{ kA} (8/20\mu\text{s})$
 IEC/EN Category: Class I, II / Type 1, 2
 Protective Elements: High Energy MOV and GDT
 Housing: Compact Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012

Technical Data

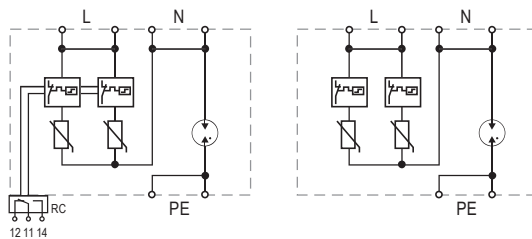
ProBloc B(R) 50/xxx (1+1)		150	275*	320*
Electrical				
Nominal AC Voltage (50/60 Hz)	U_o	120V	230V	230V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	150V	275V	320V
	(N-PE) U_c		255V	
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE) I_n		25 kA / 50 kA	
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE) I_{max}		100 kA / 100 kA	
Impulse Discharge Current (10/350 μs)	(L-N)/(N-PE) I_{imp}		25 kA / 50 kA	
Total Discharge Current (10/350 μs)	I_{total}		50 kA	
Specific Energy	(L-N)/(N-PE) W/R		156 kJ/ Ω / 625 kJ/ Ω	
Charge	(L-N)/(N-PE) Q		12.5 As / 25 As	
Voltage Protection Level	(L-N)/(N-PE) U_p	< 1.0 kV / < 1.5 kV	< 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	
Back-Up Fuse (if mains > 250 A)			250 A gG	
Short-Circuit Current Rating (AC)	I_{SCCR}		50 kA	
TOV Withstand 5s	(L-N) U_T	174V	334V	334V
TOV Safe Fail 120min	(L-N) U_T	229V	438V	438V
TOV Withstand 200ms	(N-PE) U_T		1200V / 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	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/0,5 A; 125V/3 A		
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
ProBloc B 50/xxx (1+1)		56.0602	56.0604	56.0606
ProBloc BR 50/xxx (1+1) (with remote contacts)		56.0603	56.0605	56.0607

*OVE Certified

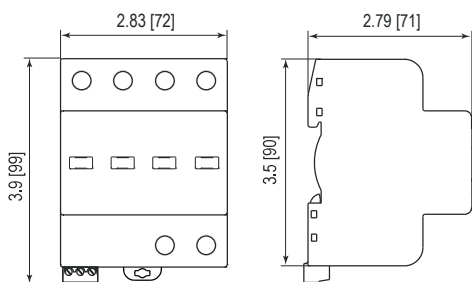
Internal Configuration

Legend

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



Dimensions & Packaging



Dimensions & Packaging

		150	275	320
ProBloc B 50/xxx (1+1)				
Single Unit Weight	pounds	.98	1.06	1.06
	grams	445	485	485
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 80mm]		
Minimum Order Quantity		3 Units		
ProBloc BR 50/xxx (1+1)				
Single Unit Weight	pounds	.99	1.06	1.06
	grams	450	490	490
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 80mm]		
Minimum Order Quantity		3 Units		