

Lightning and Overvoltage Protection  
**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  
 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) 50/xxx (4+0)		150	275*	320*
<b>IEC Electrical</b>				
Nominal AC Voltage (50/60 Hz)	$U_o$	120V	230V	230V
Maximum Continuous Operating Voltage (AC)	$U_c$	150V	275V	320V
Nominal Discharge Current (8/20 $\mu$ s)	$I_n$		20 kA	
Maximum Discharge Current (8/20 $\mu$ s)	$I_{max}$		50 kA	
Impulse Discharge Current (10/350 $\mu$ s)	$I_{imp}$		12.5 kA	
Total Discharge Current (10/350 $\mu$ s)	$I_{total}$		50 kA	
Specific Energy	W/R		39 kJ/ $\Omega$	
Charge	Q		6.25 As	
Voltage Protection Level	$U_p$	< 1.0 kV	< 1.5 kV	< 1.5 kV
Response Time	$t_A$		< 25 ns	
Overcurrent Protection (max)			250 A gG	
Short-Circuit Current Rating (AC)	$I_{SCCR}$		50 kA	
TOV Withstand 5s	$U_T$	174V	334V	334V
TOV Safe Fail 120min	$U_T$	229V	438V	438V
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**

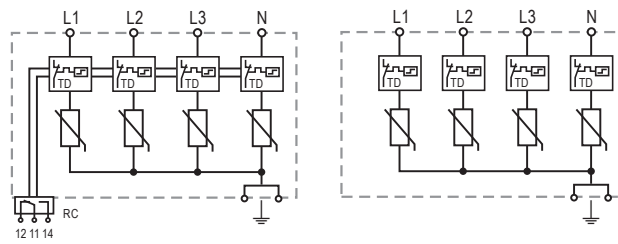
Order Code	150	275*	320*
ProBloc B 50/xxx (4+0)	56.0532	56.0534	56.0536
ProBloc BR 50/xxx (4+0) (with remote contacts)	56.0533	56.0535	56.0537

\*OVE Certified

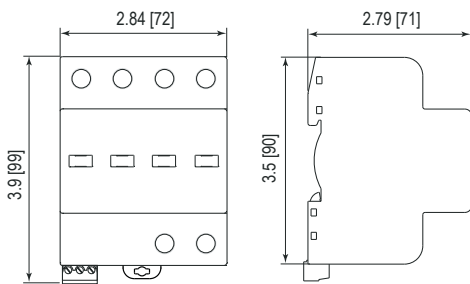
Internal Configuration

Legend

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



Complete Unit



Dimensions & Packaging				
<b>ProBloc B 50/xxx (4+0)</b>		<b>150</b>	<b>275*</b>	<b>320*</b>
Weight	pounds	1.212	1.521	1.521
	grams	550	590	590
DIN 43880 Dimension		4 TE / 2.84" [72]		
Packaging Dimensions (H x W x L)		3.1 x 4.4 x 11.7" [79 x 112 x 298 mm]		
Standard Order Quantity		3 Units		
<b>ProBloc BR 50/xxx (4+0)</b>		<b>150</b>	<b>275*</b>	<b>320*</b>
Weight	pounds	1.234	1.234	1.322
	grams	560	560	600
DIN 43880 Dimension		4 TE / 2.84" [72]		
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.

