

# PROBLOC BSG(R) 100N (3+1)

**Class I, II Multi-pole Surge Protective Device**  
 $I_{imp} = 25kA$  per pole (10/350)

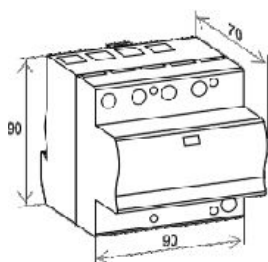


- ◆ Category IEC / EN / VDE: Class I, II / Type 1, 2 / B+C
- ◆ Location of use: Main distribution boards
- ◆ Connections: TT
- ◆ Protection modes: L - N , N - PE
- ◆ Protective element: High Energy MOV & GDT
- ◆ High surge discharge rating:  $I_{imp}$  (MOV/GDT) = 25/50kA
- ◆ MOV max withstand capability 1 x 8/20:  $I_{max} = 150kA$  per pole
- ◆ Housing: Compact design
- ◆ Complies with: IEC-61643-1

## Technical data

Type	PROBLOC BSG(R) 100N/x xx (3+1)		
	150	320	
<b>Electrical characteristics</b>			
Max. continuous operating voltage (AC/DC)	$U_c$	150/200V	320/420V
Nominal discharge current (8/20)	$I_n$ (L-N/N-PE)	25/50kA	
Max. discharge current (8/20)	$I_{max}$ (L-N/N-PE)	100kA/100kA	
Impulse current (10/350)	$I_{imp}$ (L-N/N-PE)	25kA/50kA	
Impulse current (10/350)	$I_{imp}$ (L1+L2+L3+N-PE)	100kA	
Specific energy	(L-N/N-PE)	156kJ/Ω/625kJ/Ω	
Charge	(L-N/N-PE)	12.5As/25As	
Protection level	$U_p$ (L-N)	< 1.4kV	< 1.6kV
	$U_p$ (N-PE)	< 1.5kV	
Residual voltage at $I_n$	$U_{res}$ (L-N)	< 0.9kV	< 1.1kV
Residual voltage at $I_{imp}$	$U_{res}$ (L-N)	< 0.6kV	< 0.8kV
Follow current	$I_f$ (N-PE)	> 100ARMS	
Response time	$t_A$ (L-N/N-PE)	< 25ns/100ns	
Thermal protection	(L-N/N-PE)	YES/-	
Back-up fuse (if mains > 250A)	(L-N/N-PE)	250A gL/-	
Short-circuit withstand current	(L-N/N-PE)	25kA/50Hz/-	
<b>Mechanical characteristics</b>			
Temperature range	- 40°C ....+ 80°C		
Terminal screw torque	max. 4.5Nm		
Terminal cross section	35mm <sup>2</sup> (solid)/25mm <sup>2</sup> (stranded)		
Mounting EN 60715	35mm top-hat rail		
Degree of protection	IP 20		
Housing material	Thermoplastic; extinguishing degree UL 94 V-0		
Dimensions DIN 43880	5TE		
Weight per unit	656g	706g	
Ordering code <b>PROBLOC BSG 100N/xxx (3+1)</b>	<b>513 015</b>	<b>513 003</b>	
Remote contacts	YES		
Contact ratings	AC: 250V/0.5A; 125V/3A		
Terminal cross section	max. 1.5mm <sup>2</sup>		
Remote terminal torque	0.25Nm		
Weight per unit	660g	710g	
Ordering code <b>PROBLOC BSGR 100N/xxx (3+1) - with remote contacts</b>	<b>513 016</b>	<b>513 004</b>	
Packaging dimensions (single unit)	109 x 76.5 x 96mm		

## Dimensions



## Connection diagram

