

PROTEC BS(R) 50

Class I, II Single-pole Surge Protective Device $I_{imp} = 50kA (10/350)$

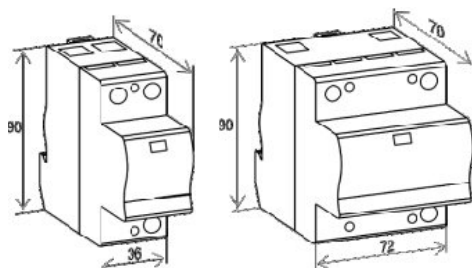


- ◆ Category IEC / EN / VDE: Class I, II / Type 1, 2 / B+C
- ◆ Location of use: Main distribution boards
- ◆ Connections: TN-S, TN-C, IT
- ◆ Protection modes: L/N - PE, L- PEN
- ◆ Protective element: High Energy MOV
- ◆ High surge discharge rating: $I_{imp} = 50kA$
- ◆ MOV max withstand capability 1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

Technical data

Type	PROTEC BS(R) 50/xxx				
	150	275	320	385	440
Electrical characteristics					
Max. continuous operating voltage (AC/DC) U_c	150/200V	275/350V	320/420V	385/500V	440/580V
Nominal discharge current (8/20) I_n			25kA		
Max. discharge current (8/20) I_{max}			100kA		
Impulse current (10/350) I_{imp}			50kA		
Specific energy			625kJ/Ω		
Charge			25As		
Protection level U_p	< 0.6kV	< 1.2kV	< 1.2kV	< 1.6kV	< 1.9kV
Residual voltage at I_{imp} U_{res}	< 0.7kV	< 1.2kV	< 1.2kV	< 1.5kV	< 1.8kV
Follow current I_f			NO		
Response time t_A			< 25ns		
Thermal protection			YES		
Back-up fuse (if mains > 500A)			500A gL		
Short-circuit withstand current			25kA/50Hz		
Mechanical characteristics					
Temperature range			- 40°C+ 80°C		
Terminal screw torque			max. 4.5Nm		
Terminal cross section			35mm ² (solid)/25mm ² (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	2TE	2TE	2TE	4TE	4TE
Weight per unit	266g	374g	374g	438g	458g
Ordering code PROTEC BS 50/xxx	502 314	502 315	502 316	502 296	502 297
Remote contacts			YES		
Contact ratings			AC: 250V/0.5A; 125V/3A		
Terminal cross section			max. 1.5mm ²		
Remote terminal torque			0.25Nm		
Weight per unit	271g	379g	379g	443g	463g
Ordering code PROTEC BSR 50/xxx - with remote contacts	502 317	502 318	502 319	502 298	502 299
Packaging dimensions (single unit)		109 x 76.5 x 41.5mm		109 x 76.5 x 78mm	

Dimensions



Connection diagram

