

PROTEC BS(R) 25

Class I, II Single-pole Surge Protective Device $I_{imp} = 25\text{kA} (10/350)$

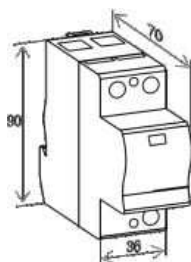


- ◆ Category IEC / EN / VDE: Class I, II / Type 1, 2 / B+C
- ◆ Location of use: Main distribution boards
- ◆ Connections: TN-S, TN-C, IT
- ◆ Protection modes: L/N - PE, L- PEN
- ◆ Protective element: High Energy MOV
- ◆ High surge discharge rating: $I_{imp} = 25\text{kA}$
- ◆ MOV max withstand capability 1 x 8/20: $I_{max} = 120\text{kA}$
- ◆ Housing: Compact design
- ◆ Complies with: IEC-61643-1

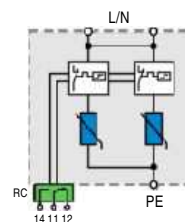
Technical data

Type	PROTEC BS(R) 25/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}	25kA				
Specific energy	156kJ/Ω				
Charge	12.5As				
Protection level U_p	< 0.7kV	< 1.3kV	< 1.3kV	< 1.7kV	< 2.0kV
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 > 250A)	250A 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				
Weight per unit	200g	252g	252g	268g	284g
Ordering code PROTEC BS 25/xxx	502 326	502 327	502 328	502 329	502 330
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	205g	257g	257g	273g	289g
Ordering code PROTEC BSR 25/xxx - with remote contacts	502 331	502 332	502 333	502 334	502 335
Packaging dimensions (single unit)	109 x 76.5 x 41.5mm				

Dimensions



Connection diagram



PROTUBE BS

Class I, II Single-pole N-PE Surge Protective Device I_{imp} = 100kA, 50kA (10/350)

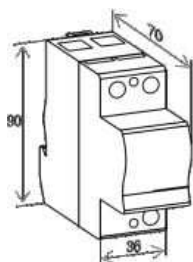


- ◆ Category IEC / EN / VDE: Class I, II / Type 1, 2 / B+C
- ◆ Location of use: Main distribution boards
- ◆ Connections: TT
- ◆ Protection modes: N - PE
- ◆ Protective element: High Energy GDT
- ◆ High surge discharge rating: I_{imp}= 100kA, 50kA
- ◆ GDT max withstand capability 1 x 8/20: I_{max}= 150kA
- ◆ Housing: Compact design
- ◆ Complies with: IEC-61643-1

Technical data

Type	PROTUBE BS 100	PROTUBE BS 50
Electrical characteristics		
Max. continuous operating voltage (AC)	U _c	255V
Nominal discharge current (8/20)	I _n	100kA
Max. discharge current (8/20)	I _{max}	100kA
Impulse current (10/350)	I _{imp}	50kA
Specific energy		2.5MJ/Ω
Charge		625kJ/Ω
Protection level	U _p	< 1.75kV
Follow current	I _f	> 100ARMS
Response time	t _A	100ns
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
Weight per unit		238g
Ordering code PROTUBE BS	503 044	503 042
Packaging dimensions (single unit)		109 x 76.5 x 41.5mm

Dimensions



Connection diagram

