

# PROTEC B2S(R) 25 (2+0)

Class I, II, III Multi-pole Surge Protective Device  
 $I_{imp} = 12.5kA$  per pole (10/350)

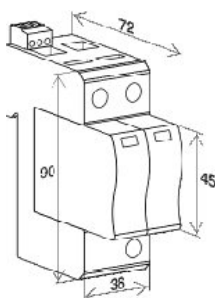


- ◆ Category IEC / EN / VDE: Class I, II, III / Type 1, 2, 3 / B+C+D
- ◆ Location of use: Main distribution boards
- ◆ Connections: TN-S
- ◆ Protection modes: L/N - PE, L - PEN
- ◆ Protective element: High Energy MOV
- ◆ High surge discharge rating:  $I_{imp} = 12.5kA$  per pole
- ◆ MOV max withstand capability 1 x 8/20: 100kA per pole
- ◆ Housing: Modular design
- ◆ Complies with: IEC-61643-1

## Technical data

Type	PROTEC B2S(R) 25/xxx (2+0)				
	150	275	320	385	440
<b>Electrical characteristics</b>					
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 per pole				
Max. discharge current (8/20) $I_{max}$	60kA per pole				
Combination wave (1.2/50, 8/20) $U_{oc}/I_{sc}$	10kV/5kA				
Impulse current (10/350) $I_{imp}$	12.5kA per pole				
Impulse current (10/350) $I_{imp}$ (L+N-PE)	25kA				
Specific energy	39kJ/Ω per pole				
Charge	6.25As per pole				
Protection level $U_p$	< 1.0kV	< 1.4kV	< 1.5kV	< 1.7kV	< 2.0kV
Residual voltage at $I_{imp}$ $U_{res}$	< 0.7kV	< 1.0kV	< 1.1kV	< 1.4kV	< 1.5kV
Follow current $I_f$	NO				
Response time $t_A$	< 25ns				
Thermal protection	YES				
Back-up fuse (if mains > 160A)	160A gL				
Short-circuit withstand current	25kA / 50Hz				
<b>Mechanical characteristics</b>					
Temperature range	- 40°C ....+ 80°C				
Terminal screw torque	max. 3.5Nm				
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	2TE				
Weight per unit	274g	314g	346g	370g	374g
Ordering code <b>PROTEC B2S 25/xxx (2+0)</b>	<b>506 027</b>	<b>506 028</b>	<b>506 029</b>	<b>506 030</b>	<b>506 031</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	279g	319g	351g	375g	379g
Ordering code <b>PROTEC B2SR 25/xxx (2+0) - with remote contacts</b>	<b>506 032</b>	<b>506 033</b>	<b>506 034</b>	<b>506 035</b>	<b>506 036</b>
Packaging dimensions (single unit)	109 x 76.5 x 41.5mm				
Ordering code <b>Module PROTEC B2S(R) 12.5/xxx</b>	<b>506 001</b>	<b>506 002</b>	<b>506 003</b>	<b>506 004</b>	<b>506 005</b>
Packaging dimensions (12 pcs.)	219 x 62 x 47mm				

## Dimensions



## Connection diagram

