

INPROTEC VV(R) (2+0)

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

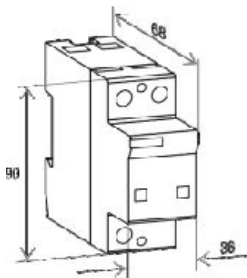


- ◆ **Category IEC / EN / VDE:** Class I, II / Type 1, 2 / B+C
- ◆ **Location of use:** Main distribution boards
- ◆ **Connections:** TN-S, IT
- ◆ **Protection modes:** L/N - PE, L - PEN
- ◆ **Protective element:** High Energy MOV
- ◆ **High surge discharge rating:** $I_{imp} = 12.5\text{kA}$ per pole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

Technical data

Type	INPROTEC VV(R) (2+0)				
	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	40kA per pole				
Max. discharge current (8/20) I_{max}	80kA per pole				
Impulse current (10/350) I_{imp}	12.5kA per pole				
Impulse current (10/350) I_{imp} (L+N-PE)	25kA				
Specific energy	39kJ/Q per pole				
Charge	6.25As per pole				
Protection level U_p	< 1.0kV	< 1.8kV	< 1.8kV	< 2.2kV	< 2.4kV
Residual voltage at I_{imp} U_{res}	< 0.6kV	< 1.1kV	< 1.1kV	< 2.1kV	< 2.3kV
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	270g	300g	300g	322g	290g
Ordering code INPROTEC VV (2+0)	505 017	505 019	505 021	505 061	505 023
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	275g	305g	305g	327g	295g
Ordering code INPROTEC VVR (2+0) - with remote contacts	505 025	505 027	505 029	505 063	505 031
Packaging dimensions (single unit)	109 x 76.5 x 41.5mm				

Dimensions



Connection diagram

