

# PROTEC BS(R) 35

## Class I, II Single-pole Surge Protective Device $I_{imp} = 35\text{kA} (10/350)$

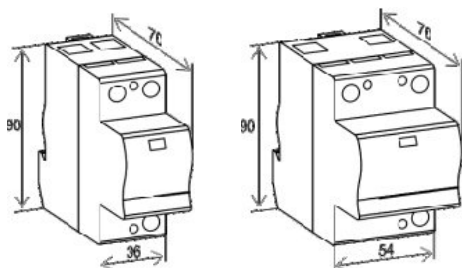


- ◆ Category IEC / EN / VDE: Class I, II / Type 1, 2 / B+C
- ◆ Location of use: Main distribution boards
- ◆ Connections: TN-S, TN-C, IT
- ◆ Protection modes: L/N - PE, L- PEN
- ◆ Protective element: High Energy MOV
- ◆ High surge discharge rating:  $I_{imp} = 35\text{kA}$
- ◆ MOV max withstand capability 1 x 8/20: 150kA
- ◆ Housing: Compact design
- ◆ Complies with: IEC-61643-1

### Technical data

Type	PROTEC BS(R) 35/xxx				
	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		
Max. discharge current (8/20) $I_{max}$			100kA		
Impulse current (10/350) $I_{imp}$			35kA		
Specific energy			306kJ/Ω		
Charge			17.5As		
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 > 315A)			315A gL		
Short-circuit withstand current			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	2TE	2TE	2TE	3TE	3TE
Weight per unit	254g	336g	336g	385g	415g
Ordering code <b>PROTEC BS 35/xxx</b>	<b>502 320</b>	<b>502 321</b>	<b>502 322</b>	<b>502 306</b>	<b>502 307</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	259g	341g	341g	390g	420g
Ordering code <b>PROTEC BSR 35/xxx - with remote contacts</b>	<b>502 323</b>	<b>502 324</b>	<b>502 325</b>	<b>502 308</b>	<b>502 309</b>
Packaging dimensions (single unit)			109 x 76.5 x 41.5mm		109 x 76.5 x 60mm

### Dimensions



### Connection diagram

