



# POWERHOUSE DISTRIBUTIONS

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## Din Rail Mount Surge Protection Devices : Class 2 (20kA - 40kA) (SABS Approved)

### DESCRIPTION:

The Class 2 BY7 surge protection device is designed for AC 50/60Hz, 380V and other electrical systems such as TT, IT, TN-S, TN-C and TN-C-S. It is used for protection of electrical systems against surges and lightning. The 2 pole and 4 pole configurations include a 12kA Class 1 rated N-PE pole SPD.

### TRIPPING DEVICE:

It is designed with a tripping device on the modular of the protector. When the protector over heats or is struck (by lightning or a surge), the tripping device automatically separates it from the electrical network and at the same time showing the indication signal. The indicator is green when the protector is normal and red when it has tripped.



BY7-20/1/275



BY7-20/4/275

Models and Specifications	BY7-YY/X/140	BY7-YY/X/275	BY7-YY/X/320	BY7-YY/X/385	BY7-YY/X/420	BY7-YY/X/550
Test Grade	Class 2 (N-PE pole is 12kA Class 1, same specification as the N-PE-1)					
Maximum Continuous Operating Voltage Uc	140	275	320	385	420	550
Maximum Discharge Current I <sub>max</sub> (8/20us) kA	YY	YY	YY	YY	YY	YY
Nominal Discharge Current I <sub>n</sub> (8/20us) kA	YY/2	YY/2	YY/2	YY/2	YY/2	YY/2
Voltage Protection Level Up	0.8kV	1.2kV	1.5kV	2.0kV	2.0kV	2.5kV
Max. Fuse Intensity	32					
Response time ns	<25ns					
Width mm	18 per pole					
Color	Grey					
Protection Level	IP20					
Shell Material	Reinforced fire-retardant nylon PBT					
Connect Ways	L,N	2.5 ---- 35mm <sup>2</sup>				
	Earthing	4.0 ---- 35mm <sup>2</sup>				
	Signal Line	1.5mm <sup>2</sup>				
<b>X = Number of Poles (1,2 and 4 available)</b>						
<b>YY = kA Rating (20kA and 40kA available)</b>						
<i>* For models with alarm contacts add "-AC" to the part number</i>						