

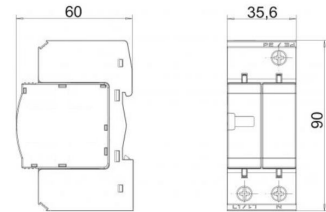
SG20-1NPE

Single phase model with NPE mode



Overview

Shogun's series of power line surge suppression products (SG20-1NPE models) have been specially developed to match the protection requirement of surge protection on AC line low voltage application according to the recommendation of various standards such as IEC, UL etc. SG20-1NPE models are available for both shunt protection and series protection with high capability in suppressing both short duration (impulse voltage limiting) and long duration surge that could occur in power lines. SG20-1NPE models use the high energy handling Transient Voltage Surge Suppression (TVSS) device which offers greater protection capability, higher surge rating, faster response time, and longer operational life. Models available for single phase and three phase systems and level of protection by means of surge rating can reach up to 20kA per phase at 8/20us standard lightning waveform.



Specifications

Arrester surge current (8/20 μs) [total]	20 kA
Response time	<25 ns
Blow-out	no
Pole version	1+N/PE
Structural width in division units (division unit, 17.5 mm)	2
Operating temperature	-40 - 80 °C
Remote signalling	no
Maximum continuous voltage (N-PE)	255 V
Maximum continuous voltage AC	280
Max. Lightning Impulse Current (10/350 μs)	10 kA
Maximum back-up fuse	125 A
Maximum discharge current (8/20 μs)	20 kA
Maximum discharge current (8/20 μs) [L-N]	20 kA
Maximum discharge current (8/20 μs) [N-PE]	50 kA
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 μs)	10 kA
Nominal discharge current (8/20 μs) [L-N]	10 kA
Nominal discharge current (8/20 μs) [N-PE]	30 kA
Nominal voltage AC (50/60 Hz)	230 V
Network form	Other
TN network form	yes
TN-C-S network form	yes
TN-S network form	yes
TT network form	yes
Protection rating	IP20
Residual Voltage level	1.5 kV
Staus Indicator	Fault or Normal
Standard	IEC61643-11, IEEE62.41.1