

NSP1 Single Phase Surge Protectors

Power protection Type 2



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NSP1-40-275



NSP1-80-275

NSP1 single phase surge protectors for point of entry protection at distribution-boards in small industrial and domestic applications.

All Mode Protection

Protection is provided for all combinations of lines ensuring the maximum level of protection is achieved at all times.

Thermal Sensing

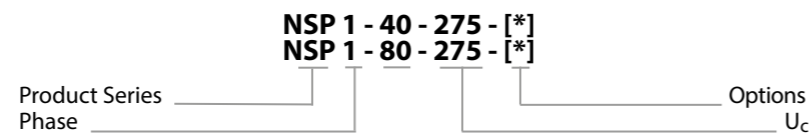
Sustained overvoltages can cause components to overheat and degrade. Thermal sensing warns of this condition without disconnecting the protection.

LED Status Active Display

The LED display indicates phase status and normal operation when all LED's are lit. An extinguished LED indicates a component failure or thermal overload, also initiating the external alarm.

Safe Metal Enclosure

Novaris power protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

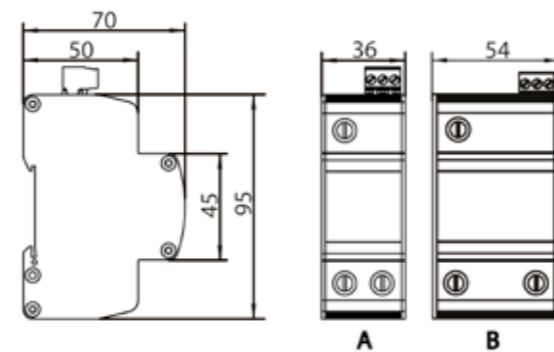


Standards

- IEC 61643-11 : 2011
- IEEE C62.41.2 : 2002
- EN 61643-11 Type 2
- AS/NZS 1768 : 2007
- UL 1449 3rd edition



Dimensions



Type	NSP1-40-275	NSP1-80-275
Electrical Specifications		
Connection type	Shunt	
Modes of protection	L-N, L-P, N-PE	
Phases	1	
Nominal voltage	U_0	230 V AC
Short circuit withstand level	I_{scsr}	25 kA
Maximum backup fuse (gL/gG)	160 A	315 A
L-N		
Maximum continuous voltage	U_c	275 V AC
Maximum load current	-	
Maximum discharge current (8/20 μ s) (L-N)	I_{max}	50 kA
Ligthning impulse current (10/350 μ s)	I_{imp}	100 kA
Nominal discharge current (8/20 μ s) (L-N / N-PE)	I_n	20 kA
Maximum switchboard fault rating	I_{scsr}	25 kA
Voltage protection level @ 3 kA 8/20 μ s	U_p	< 800 V
Voltage protection level @ I_n	U_p	< 1300 V
Response time	t_A	< 25ns
Temporary overvoltage (TOV)	U_T	334 V / 5 sec. (Withstand)
N-PE		
Maximum continuous voltage	U_c	255 V
Maximum discharge current (8/20 μ s)	I_{max}	60 kA
Ligthning impulse current (10/350 μ s)	I_{imp}	-
Nominal discharge current (8/20 μ s) (L-N / N-PE)	I_n	30 kA
Voltage protection level @ 1 kV / μ s	U_p	< 900 V
Voltage protection level @ I_n	U_p	< 2100 V
Response time	t_A	< 100 ns
Temporary overvoltage (TOV)	U_T	1200 V / 0,2 sec & 442 V / 120 min
Follow current interrupt rating	I_{fi}	100 A
Earth leakage current		< 10 μ A
Indication		
Display		LED status per phase
External alarm		Active alarm standard
Display / Alarm function		Power fail safe, thermal overload, SPDT voltage free contact
Alarm isolation		4 kV
Mechanical Specifications		
Operating temperature / humidity	-40 to +70°C/5 to 95 % non-condensing	
Terminal capacity - power	6 - 16 mm ²	
Terminal capacity - alarm	0.5 - 2.5 mm ²	
Terminal screw torque - power	2.0 Nm	
Terminal screw torque - alarm	0.5 Nm	
Environmental / Location	IP 20 / Indoors	
Dimensional drawing	A	B
Device width	36 mm	54 mm
Device height	95 mm	
Device depth	70 mm	
Mounting	TS35 DIN rail	
Enclosure/colour	Metal / Yellow	
Weight	220 g	330 g

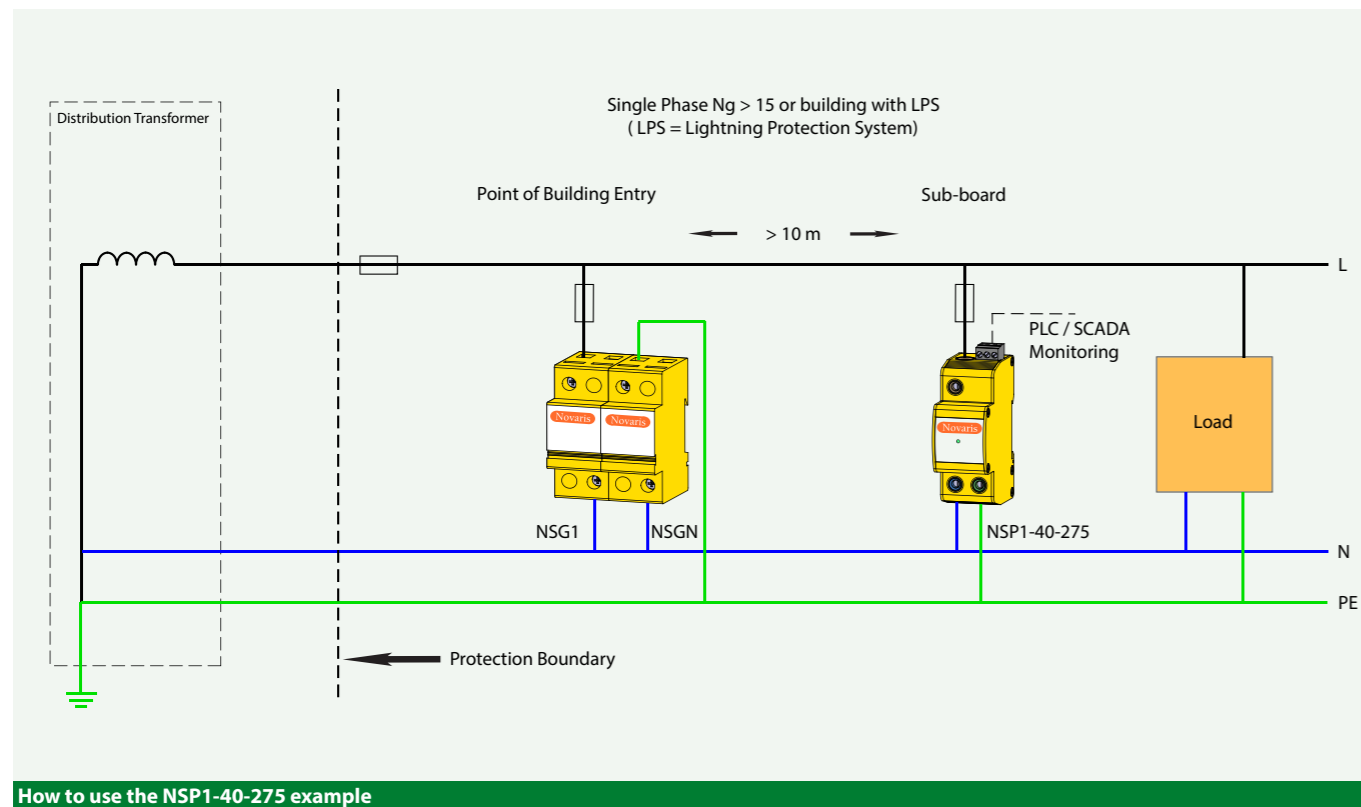
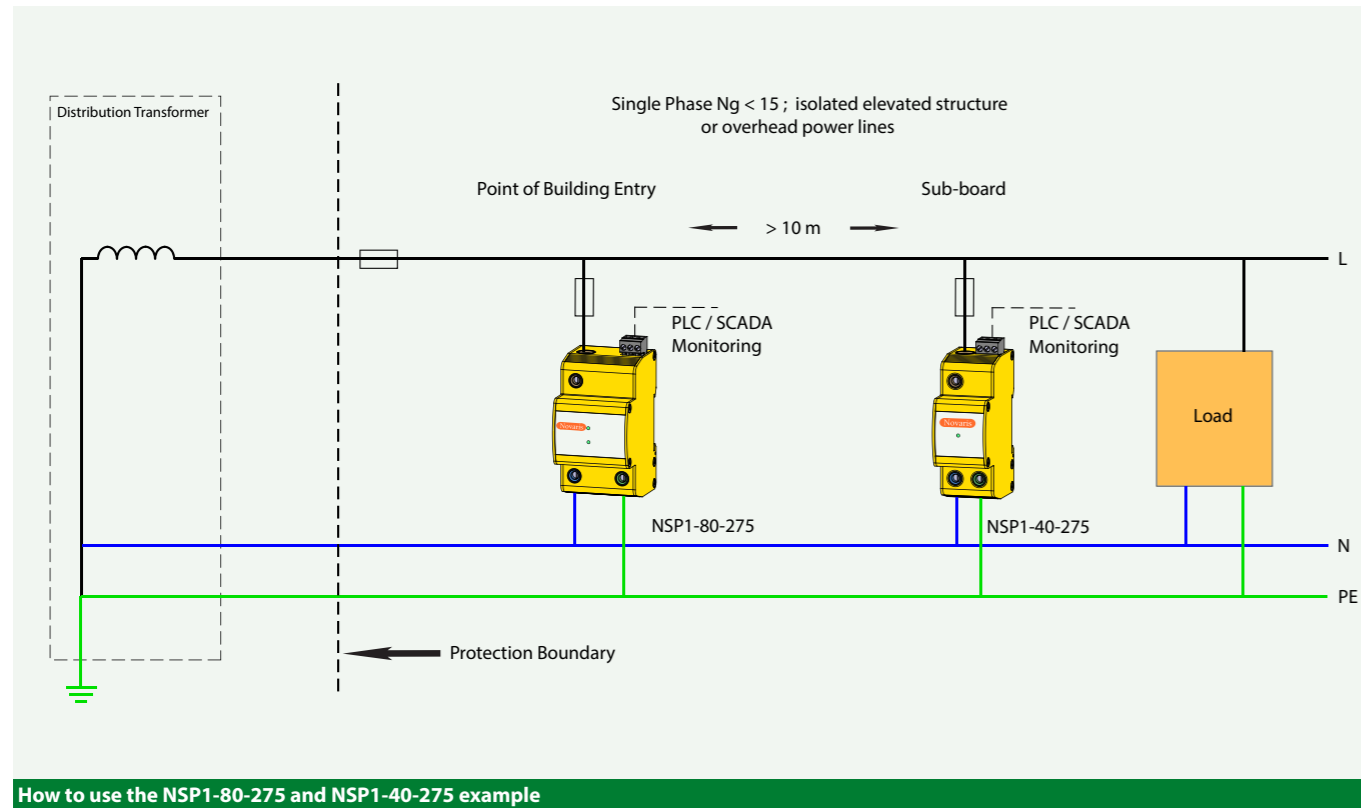
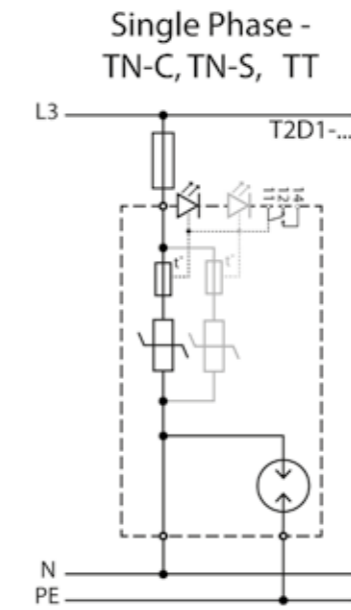


Diagram / installation



Ordering information

Useable for system	Type	Art. No.
TN, TT, IT	NSP1-40-275	B61-40-275
TN, TT, IT	NSP1-80-275	B61-80-275



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