

NXP1-40-320-N



Image for illustrative purposes only

NXP Surge Diverter

DIN compliant NXP surge diverters are suitable for the protection of electrical sub-distribution boards and point of entry protection for small industrial and domestic switchboards. The NXP is a type 2 SPD in accordance with IEC61643-11

All Mode Protection

The NXP provides all mode protection for transient disturbances between phase-neutral, phase-earth and neutral-earth.

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

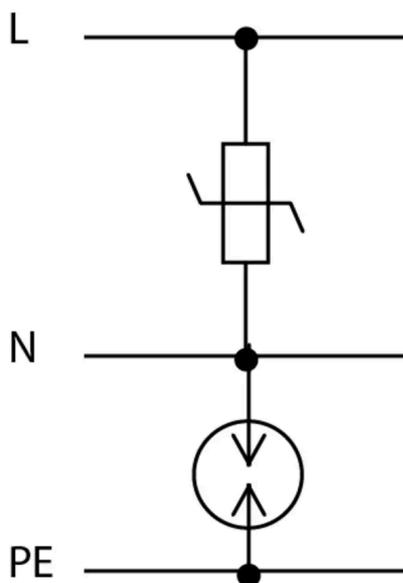
The LED display indicates phase status and normal operation when illuminated. An extinguished LED indicates a component failure or thermal overload, also initiating the optional external alarm.

Safe Metal Enclosure

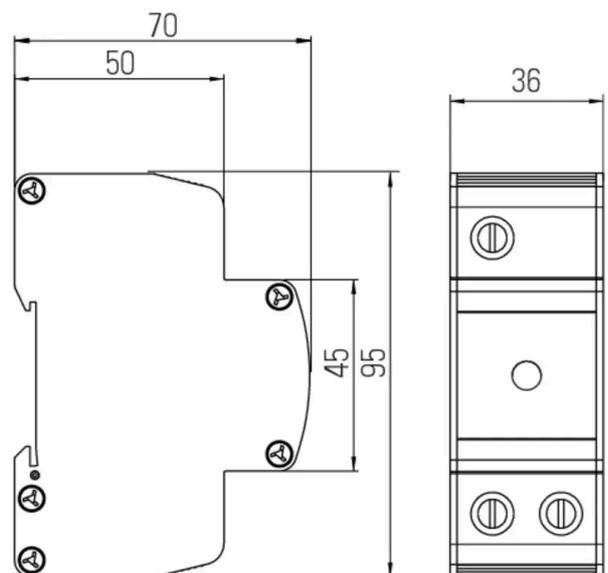
Novaris power protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

The colour of the grommets will change starting from 2026. All phases will be black, neutral will be black, and earth will be green

Wiring



Dimensions



Product Datasheet

Electrical Specifications

Connection type		Shunt
Modes of protection		L-N, L-PE, N-PE
Number of ports		1
Number of phases		1
Location		Indoor
Nominal voltage	U_0	230VAC
Short circuit withstand level	I_{SCCR}	25kA
Maximum backup fuse		32A
Recommended SCB		SCB1-3-80
Earth leakage current	I_{PE}	<10 μ A

Electrical (L-N) Specifications

Maximum continuous voltage AC	U_c	320VAC
Maximum discharge current (8/20 μ s)	I_{max}	40kA
Nominal discharge current (8/20 μ s)	I_n	20kA
Voltage protection level (3kA 8/20 μ s)	U_p	<850V
Voltage protection level (In)	U_p	<1500V
Response time	t_A	<25ns
Voltage withstand (5s)	U_T	335V

Electrical (N-PE) Specifications

Maximum continuous voltage	U_c	255VAC
Maximum discharge current (8/20 μ s)	I_{max}	60kA
Nominal discharge current (8/20 μ s)	I_n	50kA
Lightning impulse current (10/350 μ s)	I_{imp}	50kA
Voltage protection level (1kV/ μ s)	U_p	<1000V
Voltage protection level (3kA 8/20 μ s)	U_p	<1200V
Response time	t_A	<25ns
Voltage withstand (200ms)	U_T	1200V
Follow current interrupt rating	I_{ri}	100A

Indication Specifications

Display		LED power and thermal failure
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Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		TS35 DIN Rail
Environmental rating		IP20
Enclosure material		Aluminium
Enclosure finish		Black Powdercoat
Terminal capacity - power		16mm ²
Terminal screw torque - power		2Nm
Length		95mm
Width		36mm
Height		70mm
Dimensional tolerance		0.5mm

Standard Specifications

IEC 61643-11	SPD connected to low-voltage power systems - Type 2
AS 1768	Low voltage SPD - Type 2
IEEE 62.41.2	Low voltage SPD - Cat B
UL 1449	Low voltage SPD - Type 2

Shipping Specifications

Weight		190g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		NXP1-40-320-N
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