

### NSP3-100-275

#### NSP Surge Diverter

The NSP3-100-275 is an economically priced 3-phase surge diverter designed for main switchboards in MEN (TN-C-S) systems. It has a 3+0 configuration for MEN systems where the neutral link provides the necessary connection to earth. It has replaceable plug-in surge elements in a compact plastic DIN compliant housing also providing voltage free remote alarm contacts.

#### Pluggable Top

The Novaris NSP range features pluggable modules, colour coded orange for L-N and black for N-PE, where applicable.

#### Display and Alarm

The NSP range features a display window with green indicating operational and red indicating that replacement is necessary. A voltage free changeover contact allows for external alarm indication.

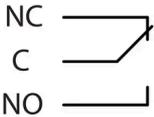
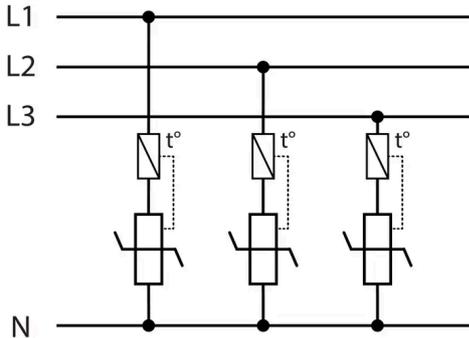
#### Overcurrent Protection

The NSP range requires external overcurrent protection as detailed in AS3000. Novaris surge circuit breakers (SCB) are recommended for this. The overcurrent protection function can also be provided by a conventional circuit breaker or fuses. Alternatively, the NSP can be paralleled with an existing power circuit. The NSP draws negligible current under normal conditions so it will not affect the circuit current loading.

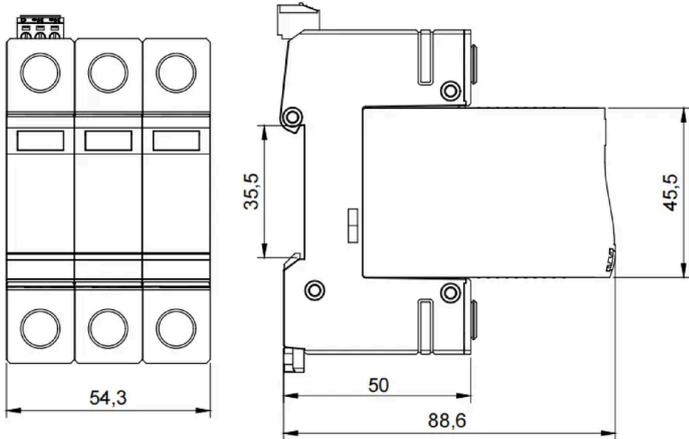


Image for illustrative purposes only

### Wiring



### Dimensions



## Product Datasheet

## Electrical Specifications

Connection type		Shunt
Modes of protection		L-N/PE
Number of ports		1
Number of phases		3
Location		Indoor
Nominal voltage	$U_0$	230VAC
Short circuit withstand level	$I_{SCCR}$	50kA
Maximum backup fuse or CB		63A
Recommended SCB		SCB1-3-80
Earth leakage current	$I_{PE}$	<10 $\mu$ A

## Electrical (L-N) Specifications

Maximum continuous voltage AC	$U_C$	275VAC
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	100kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	40kA
Lightning impulse current (10/350 $\mu$ s)	$I_{imp}$	10kA
Voltage protection level (In)	$U_p$	<1600V
Response time	$t_A$	<25ns
Voltage withstand (5s)	$U_T$	335V

## Indication Specifications

Display		Thermal failure green normal red 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
Terminal capacity - power		35mm <sup>2</sup>
Terminal capacity - alarms		1.5mm <sup>2</sup>
Length		89mm
Width		54mm
Height		87mm

## Standard Specifications

IEC 61643-11	SPD connected to low-voltage power systems - Type 2
AS 1768	Lightning protection - LPZOA/1
AS3000	Electrical Installations: Wiring Rules

## Shipping Specifications

Weight		450g
Customs tariff		85363000, 85363010

## Other Specifications

Product Code		NSP3-100-275
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