

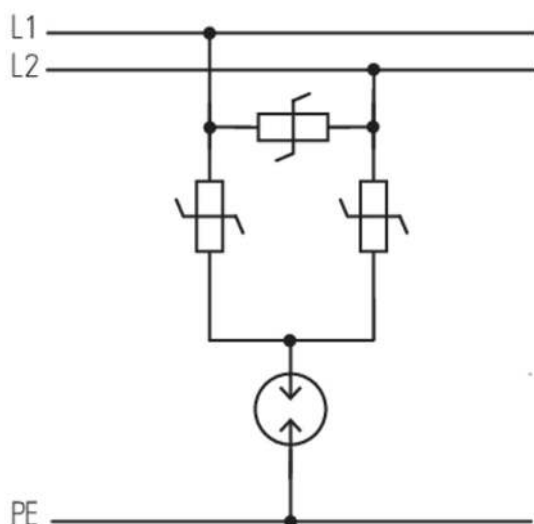
## IDD2-50-D220-A



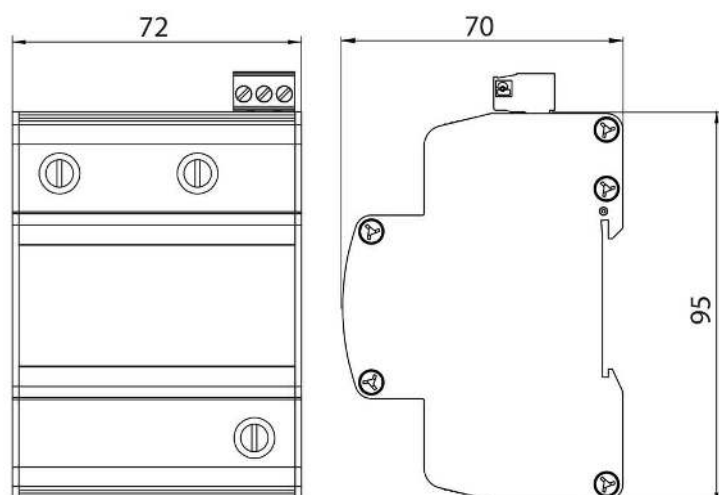
## 2 Wire All Mode Protector

The IDD2 is designed to work with single phase TT systems, IT systems and 2 wire systems with center tapped earth with operating frequencies of 50Hz-60Hz. The design provides all mode protection for all combinations of lines. The IDD2 is housed in a safe metal enclosure that is DIN compliant and in the event of prolonged overvoltages will not catch fire or explode. The IDD2 incorporates an LED display indicating the status of the product, in normal operation the LED is lit, an extinguished LED indicates a component failure or thermal overload.

## Wiring



## Dimensions







## Standards

IEC 61643-11:2011  
AS/NZS 1768:2007  
IEEE 62.41.2:2002  
UL 1449 3rd edition

SPD connected to low-voltage power systems - Type 2  
Low voltage SPD - Type 2  
Low voltage SPD - Cat B  
Low voltage SPD - Type 2

## Product Datasheet

## Electrical Specifications

Connection type		Shunt
Modes of protection		L-L & L-PE
Number of ports		1
Number of phases		2
Location		Indoor
Nominal voltage	$U_o$	220VAC
Short circuit withstand level	$I_{SSCR}$	25kA
Maximum backup fuse		32A
Recommended SCB		SCB1-3-80
Earth leakage current	$I_{PE}$	<10 $\mu$ A

## Other Specifications

Product Code  IDD2-50-D220-A

## Electrical (L-L) Specifications

Maximum continuous voltage AC	$U_c$	320VAC
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	50kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	20kA
Voltage protection level (3kA 8/20 $\mu$ s)	$U_p$	<920V
Voltage protection level (In)	$U_p$	<1200V
Response time	$t_A$	<5ns




## Electrical (L-PE) Specifications

Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	60kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	50kA
Voltage protection level (3kA 8/20 $\mu$ s)	$U_p$	<1100V
Voltage protection level (1kV/ $\mu$ s)	$U_p$	<1300V
Response time	$t_A$	<5ns
















## Shipping Specifications

Weight		300g
Customs tariff		85354010

## Indication Specifications

Display		LED power and thermal failure
Alarm		SPDT power and thermal failure
Alarm isolation		4kV

## 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 <sup>2</sup>
Terminal screw torque - power		2Nm
Terminal capacity - alarms		2.5mm <sup>2</sup>
Terminal screw torque - alarms		0.5Nm
Length		95mm
Width		72mm
Height		70mm