

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_{SSCR}	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	275VAC
Maximum discharge current (8/20 μ s)	I_{max}	50kA
Nominal discharge current (8/20 μ s)	I_n	20kA
Lightning impulse current (10/350 μ s)	I_{imp}	6.25kA
Voltage protection level (3kA 8/20 μ s)	U_p	<800V
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
Lightning impulse current (10/350 μ s)	I_{imp}	50kA
Nominal discharge current (8/20 μ s)	I_n	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	<100ns
Voltage withstand (200ms)	U_T	1200V
Follow current interrupt rating	I_{fi}	100A

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 ²
Terminal screw torque - power		2Nm
Terminal capacity - alarms		2.5mm ²
Terminal screw torque - alarms		0.5Nm
Length		95mm
Width		36mm
Height		70mm

Other Specifications

Product Code  SDD1-50-275-A

Shipping Specifications

Weight		260g
Customs tariff		85363000, 85363010