

Surge protection device - S-PT-1X2-24DC-3/4" - 2882598

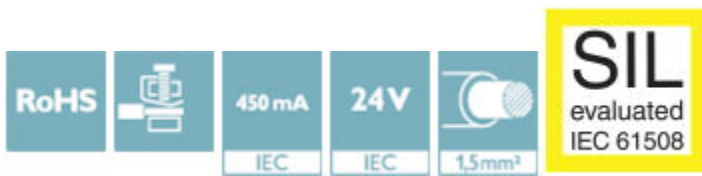
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Surge protection in the IP67 screw-on module for measuring sensors, direct mounting with 3/4" NPT outer thread, cable gland for the signal cable, two-stage protective circuit. HART-compatible.

Why buy this product

- Arresters in hexagonal pipe with various outer threads



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 098182
GTIN	4046356098182
Weight per Piece (excluding packing)	440.000 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	33.5 mm
Width	33.5 mm
Depth	148 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m (amsl (above mean sea level))

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Ambient conditions

Degree of protection	IP67
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General

Housing material	Zinc die-cast, surface bronzed and nickel-plated
Color	silver
Standards for clearances and creepage distances	IEC 60664-1
	VDE 0110-1
Mounting type	direct screw connection
Type	Screw-in module
Number of positions	3
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Maximum continuous voltage U_C	40 V DC
	28 V AC
Rated current	450 mA (55 °C)
Operating effective current I_C at U_C	$\leq 10 \mu A$
Residual current I_{PE}	$\leq 2 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Core)	10 kA
Nominal discharge current I_n (8/20) μs (core-earth)	10 kA (per path)
Nominal discharge current I_n (8/20) μs (Shield-Earth)	10 kA (optional)
Pulse discharge current I_{imp} (10/350) μs	1 kA
Total discharge current I_{total} (8/20) μs	20 kA
Total discharge current I_{total} (10/350) μs	2 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Core)	10 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	10 kA (per path)
Max. discharge current I_{max} (8/20) μs maximum (Shield-Earth)	10 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Core)	23 A
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	100 A
Nominal pulse current I_{an} (10/1000) μs (Shield-Earth)	100 A
Output voltage limitation at 1 kV/ μs (core-core) spike	$\leq 55 V$
Output voltage limitation at 1 kV/ μs (core-earth) spike	$\leq 450 V$ (Direct grounding)
Output voltage limitation at 1 kV/ μs (Shield-Earth) spike	$\leq 600 V$ (optional)

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Protective circuit

Output voltage limitation at 1 kV/ μ s (core-core) static	≤ 55 V
Output voltage limitation at 1 kV/ μ s (core-earth) static	≤ 450 V (Direct grounding)
Residual voltage at I_n (conductor-conductor)	≤ 55 V
Residual voltage with I_{an} (10/1000) μ s (conductor-conductor)	≤ 65 V
Voltage protection level U_p (core-core)	≤ 80 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (core-ground)	≤ 450 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (shield-ground)	≤ 600 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p static (core-core)	≤ 50 V (C2 - 10 kV / 5 kA)
Response time t_A (core-core)	≤ 1 ns
Response time t_A (core-earth)	≤ 100 ns
Response time t_A (Shield-Earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.5 dB (≤ 1.5 MHz / 50 Ω)
	typ. 0.2 dB (≤ 300 kHz / 150 Ω)
Cut-off frequency f_g (3 dB), sym. in 50 Ohm system	typ. 6 MHz
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	typ. 2 MHz
Resistance in series	2.2 $\Omega \pm 10\%$
Surge protection fault message	none
Max. required back-up fuse	500 mA (T)
Impulse durability (conductor-conductor)	C2 - 10 kV/5 kA
	D1 - 1 kA
Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 1 kA
Impulse durability (shield-ground)	C2 - 10 kV / 5 kA
	D1 - 1 kA

Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks
Connection method OUT	Connection line
Connection technology	Screw connection
Screw thread	M3
Tightening torque	0.6 Nm
Stripping length	6 mm
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	26 ... 16

Standards and Regulations

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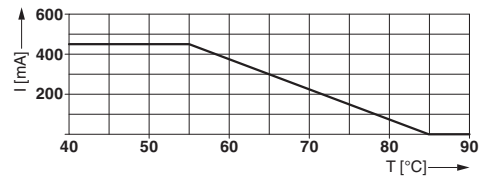
Standards/specifications	IEC 61643-21 2002
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Drawings

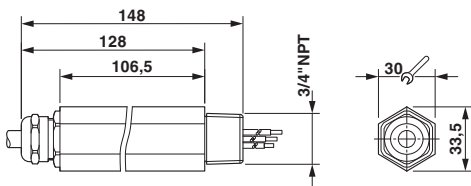
Pictogram



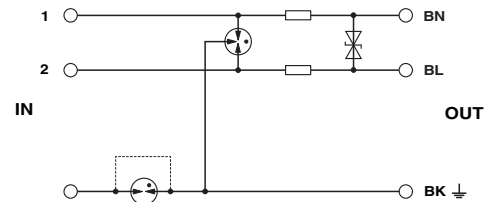
Diagram



Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943

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UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals


Approvals

EAC / EAC

Ex Approvals

Approval details

EAC		RU C- DE.A*30.B01561
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EAC		EAC-Zulassung
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