

Surge protection device - S-PT-EX(I)-24DC-3/4" - 2882585

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Surge protection in the IP67 screw-on module for measuring sensors in intrinsically safe circuits, 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
Weight per Piece (excluding packing)	440.000 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	34 mm
Width	34 mm
Depth	148 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 50 °C
Degree of protection	IP67

General

Housing material	Zinc die-cast
Flammability rating according to UL 94	V-0
Color	silver

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Technical data

General

Standards for clearances and creepage distances	IEC 60664-1
	EN 60079-0
	EN 60079-11
Mounting type	cl 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	30 V DC
	21 V AC
Rated current	350 mA (50 °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
Nominal discharge current I_n (8/20) μs (Shield-Earth)	10 kA (optional)
Pulse discharge current I_{imp} (10/350) μs	1 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
Max. discharge current I_{max} (8/20) μs maximum (Shield-Earth)	10 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Core)	30 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	$\leq 50 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 1.4 kV$ (Direct grounding)
Output voltage limitation at 1 kV/ μs (Shield-Earth) spike	$\leq 600 V$ (optional)
Output voltage limitation at 1 kV/ μs (Core-Core) static	$\leq 50 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 1.4 kV$ (Direct grounding)
Residual voltage at I_n (conductor-conductor)	$\leq 50 V$
Residual voltage with I_{an} (10/1000) μs (conductor-conductor)	$\leq 50 V$
Voltage protection level U_p (core-core)	$\leq 55 V$ (C2 -5 kA)

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Protective circuit

	$\leq 50 \text{ V}$ (C1 - 250 A)
	$\leq 50 \text{ V}$ (C3 - 25 A)
	$\leq 80 \text{ V}$ (D1 - 1 kA)
Voltage protection level U_p (core-ground)	$\leq 1.4 \text{ kV}$ (C2 -5 kA, direct grounding)
	$\leq 1.4 \text{ kV}$ (C1 - 500 A)
	$\leq 1.4 \text{ kV}$ (C3 - 100 A)
	$\leq 1.4 \text{ kV}$ (D1 - 1 kA)
Voltage protection level U_p (shield-ground)	$\leq 650 \text{ V}$ (C2 -5 kA optional)
Response time t_A (Core-Core)	$\leq 1 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Response time t_A (Shield-Earth)	$\leq 100 \text{ ns}$
Input attenuation aE, sym.	typ. 0.5 dB ($\leq 1 \text{ MHz}$ / 50 Ω)
	typ. 0.2 dB (Up to 400 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. 2.5 MHz
Resistance in series	2.2 $\Omega \pm 10 \%$
Surge protection fault message	None
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
Alternating current carrying capacity (conductor-ground)	10 A - 1 s
Alternating current carrying capacity (shield-ground)	10 A - 1 s

Connection data

Connection name	Input/output
Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Connection line
Connection method	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

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Standards and Regulations

Standards/regulations	DIN EN 61643-21
	EN 60079-0
	EN 60079-11
	EN 60079-26
Standards/specifications	EN 61643-21/A2 2013
	EN 60079-0 2012
	EN 60079-11 2012
	EN 60079-26 2007
	IEC 60079-0 2011
	IEC 60079-11 2011
	IEC 60079-26 2006

General

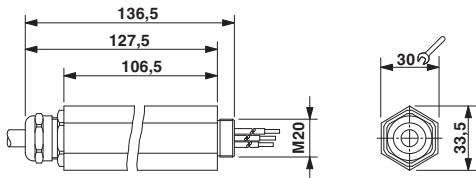
Maximum inner capacitance C_i	2 nF
Maximum inner inductance L_i	1 μ H
Max. input current I_i	350 mA (T4,T5,T6/ $\leq$ 50°C)
Max. input voltage U_i	30 V
Maximum input power P_i	3 W

Conformity / approvals

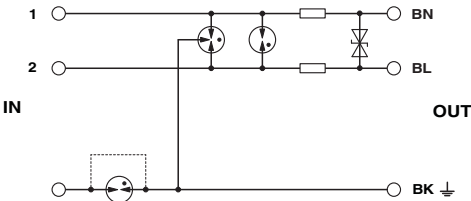
ATEX	# II 1G Ex ia IIC T4...T6 Ga
IECEX	Ex ia IIC T4...T6 Ga

Drawings

Dimensional drawing



Circuit diagram



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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

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

IECEX / ATEX / INMETRO

Approval details

EAC EAC-Zulassung

Surge protection device - S-PT-EX(I)-24DC-3/4" - 2882585

Approvals

EAC 7500651.22.01.00243

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