

# Surge protection device - S-PT-EX-24DC-1/2" - 2800035

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Surge protection for one floating signal circuit in screw-on module with IP67 protection for sensor heads, connection 1/2-inch 14 NPT. Tested in acc. with the protection types in Ex areas Ex d / Ex tD / Ex ia IIC / Ex iaD.

## Why buy this product

- Arresters in hexagonal pipe with various outer threads



## Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 115 (TT-2011)
GTIN	 4 046356 411011
Custom tariff number	85363010
Country of origin	GERMANY

## Technical data

### General

Housing material	High-grade steel
Color	silver
Standards for air and creepage distances	IEC 60664-1
Standards for air and creepage distances	IEC 60079-11
Total surge current (8/20) µs	20 kA
Total surge current (10/350) µs	2 kA
Ambient temperature (operation)	-25 °C ... 80 °C (non-EX)
Mounting type	1/2 inch NPT
Design	Screw-in module
Number of positions	2
Degree of protection	IP67
Direction of action	Line-Line & Line-Earth Ground
Width	28 mm
Height	28 mm
Depth	79 mm

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### Technical data

#### Protective circuit

IEC category	C1
IEC category	C2
IEC category	C3
IEC category	D1
Nominal voltage UN	24 V DC
Maximum continuous operating voltage UC	36 V DC
Maximum continuous operating voltage UC	25 V AC
Maximum continuous voltage UC (wire-wire)	36 V DC
Maximum continuous voltage UC (wire-wire)	25 V AC
Ground conductor current IPE	≤ 2 μA
Nominal discharge surge current In (8/20) μs (Core-Core)	260 A
Nominal discharge surge current In (8/20) μs (Core-Earth)	10 kA
Total surge current (8/20) μs	20 kA
Nominal pulse current Ian (10/1000) μs (Core-Core)	50 A
Lightning test current (10/350) μs, peak value limp	1 kA
Output voltage limitation at 1 kV/μs (Core-Core) spike	≤ 130 V
Output voltage limitation at 1 kV/μs (Core-Earth) spike	≤ 1.1 kV
Output voltage limitation at 1 kV/μs (Core-Core) static	≤ 60 V
Protection level UP (Core-Core)	≤ 65 V (C3 - 10 A)
Protection level UP (Core-Earth)	≤ 1.1 kV (C3 - 100 A)
Protection level UP (Core-Earth)	≤ 1.1 kV (C1 - 500 A)
Protection level UP (Core-Earth)	≤ 1.2 kV (C2 - 10 kV / 5 kA)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	Typ. 0.1 dB (30 MHz / 50 Ω)
Input attenuation aE, sym.	Typ. 0.1 dB (6 MHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	Typ. 70 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	Typ. 70 MHz
Capacity (Core-Core)	Typ. 20 pF
Capacity (Core-Earth)	Typ. 5 pF
Resistance in series	0 Ω
Message: Surge protection fault	None
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C3 (25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 - 1kA
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	10 A - 1 s

#### Connection data

Connection method	Individual wires
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#### Connection, protective circuit

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## Technical data

### Connection, protective circuit

Standards/regulations	EN 61643-21
Standards/regulations	EN 60079-0
Standards/regulations	EN 60079-1
Standards/regulations	EN 60079-11
Standards/regulations	EN 60079-26
Standards/regulations	EN 61241-0
Standards/regulations	EN 61241-1
Standards/regulations	EN 61241-11

## Classifications

### eclass

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

### etim

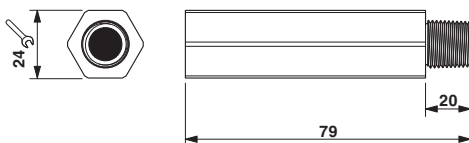
ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

### unspsc

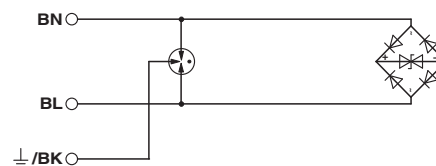
UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Drawings

### Dimensioned drawing

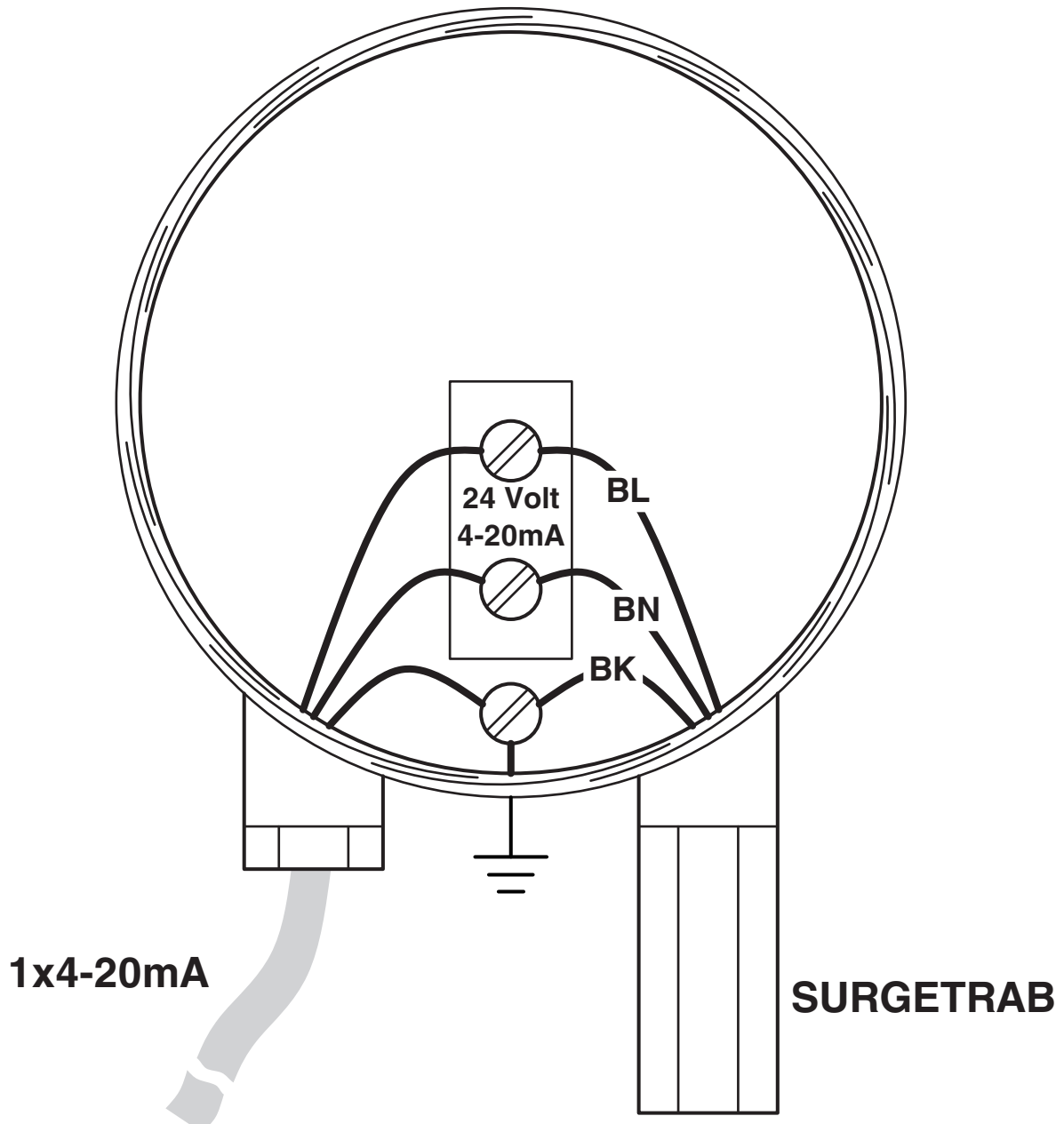


### Circuit diagram



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Application drawing





## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

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