

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



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 |

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

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 |
|-------------------|------------------|

Connection, protective circuit

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

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

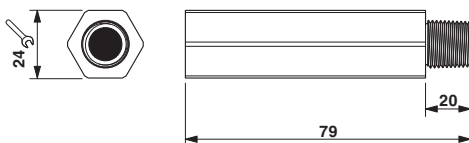
| | |
|----------|----------|
| ETIM 2.0 | EC000943 |
| ETIM 3.0 | EC000943 |
| ETIM 4.0 | EC000943 |
| ETIM 5.0 | EC000943 |

unspsc

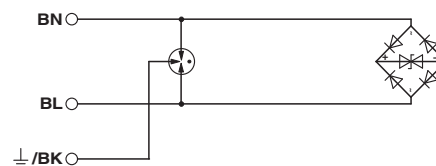
| | |
|---------------|----------|
| UNSPSC 6.01 | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |

Drawings

Dimensioned drawing

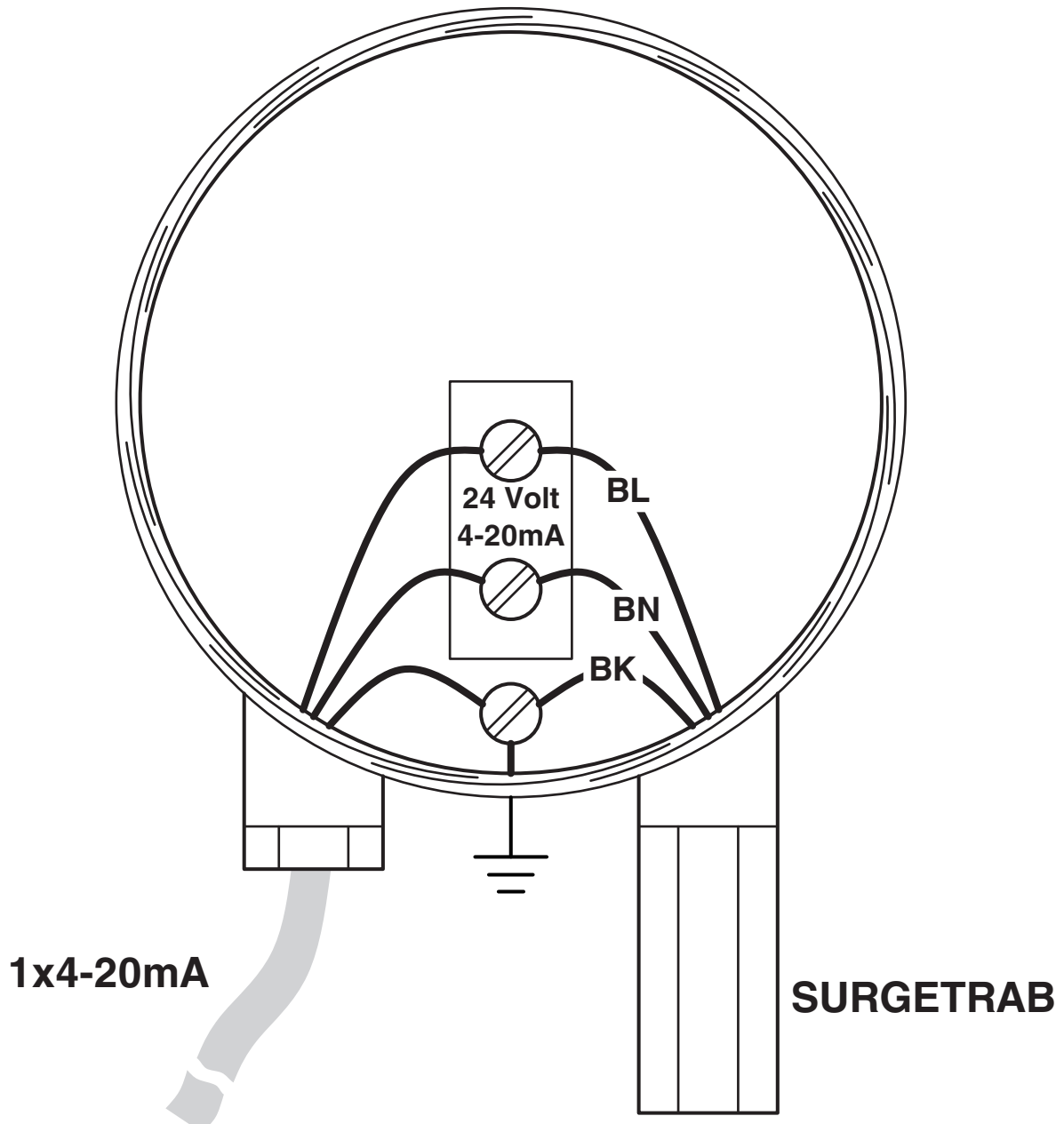


Circuit diagram



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

Application drawing





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.