

DC Surge Protector SPD CPX Indoor Module 48 Vdc, Full-Mode,  
 5 kA SASD EN/IEC 60950-1, Class I/Div II, ATEX, Fused



## 1000-1405 CPX DC Defender 48V 5kA Module

### Features

- EN/IEC 60950-1, Class I/Div II, ATEX
- 100% SASD Protection
- WAGO Cage Clamp Connectors
- Mount into CPX Chassis

### Applications

- Industrial Automation
- Controls & Sense Loops
- Telecommunications Base Stations
- IT & Data Centers
- Wastewater Treatment
- Rail
- Oil & Gas
- LED Lighting

### Description

DC surge protector (also known as SPD or lightning protector) 1000-1405 from Transtector is an EN/IEC 60950-1, Class I/Div II, ATEX module style SPD that utilizes state of the art SASD technology to protect critical equipment that operates on a 48 Vdc electrical service. This surge protector provides effective protection against electrical transient surges that are generated both by external lightning events and by internal switching events and supports long-term system reliability by safely shunting high amounts of transient energy while maintaining a very low clamping voltage. Transtector DC surge protectors are available in stock with same day shipping.

### Electrical Specifications

| Description                                 | Minimum | Typical | Maximum | Units |
|---|---------|---------|---------|-------|
| Service Voltages                            |         | 48      |         | Vdc   |
| Current Rating                              |         |         | 15      | A     |
| Maximum Continuous Operating Voltage (MCOV) |         |         |         |       |
| MCOV DC                                     |         |         | 65      | Vdc   |

### Surge Protection Specification

| Description                 | Minimum | Typical                            | Maximum   | Units |
|-----------------------------|---------|------------------------------------|-----------|-------|
| Surge Protection Technology |         | SASD                               |           |       |
| Surge Protection Modes      |         | DC+ to DC-, DC+ to GND, DC- to GND |           |       |
| Response Time               |         |                                    | 5         | ns    |
| 8/20 $\mu$ s Surge Current  |         |                                    | 5         | kA    |
| VPL 8/20 $\mu$ s L-G        |         |                                    | 97 @ 500A | Vpk   |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[DC Surge Protector SPD CPX Indoor Module 48 Vdc, Full-Mode, 5 kA SASD EN/IEC 60950-1, Class I/Div II, ATEX, Fused 1000-1405](#)

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#### Mechanical Specifications

##### Size

|                              |         |            |
|------------------------------|---------|------------|
| Height                       | 1.99 in | [50.55 mm] |
| Width                        | 1.63 in | [41.4 mm]  |
| Depth                        | 3.08 in | [78.23 mm] |
| Weight                       | 1 lbs   | [453.59 g] |
| Housing Material and Plating | Steel   |            |

#### Environmental Specifications

##### Temperature

|                 |                     |
|-----------------|---------------------|
| Operating Range | -40 to +65 deg C    |
| Storage Range   | -40 to +65 deg C    |
| Humidity        | <95% non-condensing |

#### Installation

|  |               |
|--|---------------|
| Mount Type                                   | CPX Module    |
| Service Wiring Terminal<br>Spring Cage Clamp | #24 to #8 AWG |

#### Compliance Certifications

|                                       |  |
|---------------------------------------|--|
| CE Compliant                          | Yes  |
| UL Compliant                          | Yes  |
| ANSI Compliant                        | Yes  |
| Hazardous Locations<br>Certifications | Yes<br>CSA<br>UL 497B<br>IEC 60950<br>ETL 60950-1<br>Class 1 Div 2 Groups A,B,C,D T6<br>Class 1 Zone 2 Aex ec IIC T6 Gc<br>Ex ec IIC T6 Gc<br>II 3 G Ex ec IIC T6 Gc<br>ITS14ATEX48147X<br>ETL14CA101699377X |

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Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

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1000-1405 CAD Drawing

