

DC Surge Protector SPD RRPA Indoor DIN-Rail
Assy 48 Vdc, 20 kA MOV, GDT 2x DTA

RRPA-DTA-2

Features

- MOV/GDT Surge Protection
- Replaceable Suppression Modules
- Dry Contact Remote Annunciation Terminals
- Replaceable Fuses
- WAGO Cage Clamp Connectors
- Panel Mount DIN-Rail Assembly

Applications

- Railroad Signaling Systems

Description

DC surge protector (also known as SPD or lightning protector) RRPA-DTA-2 from Transtector is a DIN-Rail Assy style SPD that utilizes state of the art MOV, GDT 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 | | | 40 | A |
| Maximum Continuous Operating Voltage (MCOV) | | | | |
| MCOV DC | | | 60 | Vdc |

Surge Protection Specification

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------------------------------|-------------|-------|
| Surge Protection Technology | | MOV, GDT | | |
| Surge Protection Modes | | Signal to GND, Signal to Signal | | |
| Response Time | | | 25 | ns |
| 8/20 μ s Surge Current | | | 20 | kA |
| VPL 8/20 μ s L-G | | | 375 @ 3000A | Vpk |
| Nominal Discharge Surge Current (In) | | 10 | | kA |

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 RRPA Indoor DIN-Rail Assy 48 Vdc, 20 kA MOV, GDT 2x DTA RRPA-DTA-2](#)

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RRPA-DTA-2

Mechanical Specifications

Size

| | | |
|--------|---------|-------------|
| Height | 8.83 in | [224.28 mm] |
| Width | 4.73 in | [120.14 mm] |
| Depth | 5.63 in | [143 mm] |
| Weight | 1 lbs | [453.59 g] |

Environmental Specifications

Temperature

| | |
|-----------------|---------------------|
| Operating Range | -40 to +85 deg C |
| Storage Range | -40 to +85 deg C |
| Humidity | <95% non-condensing |

Installation

| | |
|----------------------------|----------------------|
| Mount Type | DIN-Rail, Wall/Panel |
| Service Wiring Terminal | |
| Spring Cage Clamp | #24 to #6 AWG |
| Status Indication Terminal | |
| 3-Position Screw Terminal | #22 to #12 AWG |

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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URL: <https://www.transtector.com/dc-surge-protector-spd-rrpa-indoor-din-rrpa-dta-2-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Transtector reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Transtector does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Transtector does not assume any liability arising out of the use of any part or documentation.

RRPA-DTA-2 CAD Drawing

| REVISIONS | | |
|-----------|-----------------|---------|
| REV. | DESCRIPTION | DATE |
| A | INITIAL RELEASE | 1/21/19 |
| | APPROVED | DWR |

VISUAL SUPPRESSION STATUS INDICATORS
 REPLACEABLE 12R SUPPRESSION MODULES
 WAGO CAGE CLAMP BLOCK FOR REMOTE SUPPRESSION STATUS WIRING
 WAGO CAGE CLAMP BLOCK FOR GROUND
 WAGO CAGE CLAMP CONNECTORS FOR IN/OUT SERVICE WIRING
 WAGO CAGE CLAMP BLOCK FOR REMOTE SUPPRESSION STATUS WIRING

7.83 [198.9]
 4.73 [120.2]
 8.83 [224.3]
 5.31 [134.9]
 2X Ø.25 [6.4]

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X±.2 [5.08] FRACTIONS ± 1/32
 .XX±.01 [.25] FRACTIONS ± 1/32
 .XXX±.005 [.13] ANGLES ± 1°

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
 THIRD-ANGLE PROJECTION

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| | | | |
|-------|-----|----|---|
| SHEET | 1 | OF | 1 |
| SCALE | 1:3 | | |

| | | | | |
|------|-------|----------|-------------|-----|
| SIZE | CAGE | DRAWN BY | PART NUMBER | REV |
| A | 30992 | HMB | RRPA-DTA-2 | A |

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