

DC Surge Protector SPD I2R Indoor DIN-Rail 48 Vdc
 Track Power, Full-Mode, 20 kA MOV, GDT



1101-1099
 DTA

Features

- Hybrid MOV, GDT Protection
- Visual Suppression Status Indicator
- Dry Contact Remote Annunciation Terminals
- Replaceable Suppression Modules
- DIN-Rail Mount

Applications

- Railroad Trackside Signal Circuits

Description

DC surge protector (also known as SPD or lightning protector) 1101-1099 from Transtector is a DIN-Rail 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
8/20µs Surge Current			20	kA
VPL 8/20µs 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 I2R Indoor DIN-Rail 48 Vdc Track Power, Full-Mode, 20 kA MOV, GDT 1101-1099](#)

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Mechanical Specifications

Size

Height	5.31 in	[134.87 mm]
Width	1.42 in	[36.07 mm]
Depth	3.81 in	[96.77 mm]
Weight	1.15 lbs	[521.63 g]
Housing Material and Plating	20% Glass Filled Plastic	

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
Service Wiring Terminal	
Spring Cage Clamp	#24 to #6 AWG
Status Indication Terminal	
2 Pin Connector	#16 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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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.

1101-1099 CAD Drawing

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/17/19	DWR

REPLACEABLE I2R SUPPRESSION MODULE
 VISUAL INDICATORS FOR SUPPRESSION STATUS
 AUXILIARY GROUND TERMINAL
 REPLACEABLE OVERCURRENT FUSES, REMOVE FOR SERVICING DOWNSTREAM EQUIPMENT
 GROUNDED DIN-RAIL FOOT FOR MOUNTING
 2X WAGO CAGE CLAMP CONNECTORS EACH SIDE FOR IN/OUT SERVICE WIRING

5.31 [134.9]

1.42 [36]

4.52 [114.7]

<p>TRANSTECTOR 10701 AIRPORT ROAD, HAYDEN, ID. 83835 PHONE: 1.208.635.6400 1.800.882.9110 FAX: 1.208.955.2041 www.transtector.com e-mail: sales@transtector.com</p>		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSTECTOR CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE 1:2
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: .X±.2 [5.08] .XX±.01 [.25] .XXX±.005 [.13] FRACTIONS ± 1/32 ANGLES ± 1°	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. THIRD-ANGLE PROJECTION	
SIZE A CAGE 30992 DRAWN BY HMB PART NUMBER 1101-1099	REV A	

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