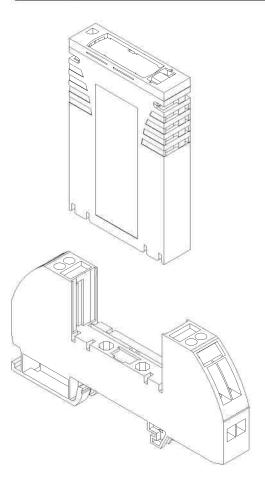
THIS DRAWING HAS BEEN GENERATED AND IS MAINTAINED BY A CAD SYSTEM. CHANGES SHALL ONLY BE INCORPORATED AS DIRECTED BY THE DESIGN ACTIVITY.

REVISIONS				
LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
0	PRODUCTION RELEASE		1/08/03	DWR
Α	ADDED DRDC 70 TO SPEC	5133	2/10/04	CDD
В	HAZARDOUS LOCATIONS CERTIFICATION – CLASS 1 DIV 2 APPROVAL	8689	3/15/10	MPD



UNLESS	DRAWN: DWR	DATE 1/08/03		TD	/UCTEPTOD*	
OTHERWISE SPECIFIED DIM. IN INCHES	CHECKED: BJK	1/15/03			<u>(NSTECTOR</u> "	
BEFORE PLATING	ENGR. APPD: JDW	1/15/03		5 U	PERIOR SURGE SUPPRESSION	
MATERIAL:	PROJ. APPD: DWR	1/15/03	Product Specification			
N/A	APPROVED:		DRDC Series			
	NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF TRANSTECTOR SYSTEMS. WHO RESERVES ALL		SIZE A	CAGE 30992	DRAWING NUMBER 1400-477	REV B
92	RIGHTS THERETO		SCALE	= N/A	PAGE 1 OF	3

SUPPRESSOR PERFORMANCE SPECIFICATIONS

DRDC 7 (1101-678)

DRDC 12 (1101-679)

DRDC 24 (1101-680)

DRDC 48 (1101-681)

DRDC 70 (1101-724)

 GENERAL DESCRIPTION: The DRDC Series Din-Rail surge suppressors are modular, high-speed, high-current, solid-state devices designed to protect electronic equipment and systems from transient overvoltages. The suppressor limits the magnitude of transient overvoltages that may occur on low voltage DC power lines, 4-20mA current loops or low frequency data lines. Data lines that benefit from DRDC suppression include: Ethernet, RS-485/232, Profibus, Foundation Fieldbus, DH+ or DeviceNet.

The DRDC Series surge suppressors utilize only silicon avalanche suppression diodes (SASD). The suppressor provides continuous, bipolar protection and automatically resets after a surge event with no degradation to its protection capabilities.

The suppressor includes a removable module with a base that mounts on standard 35mm DIN (EN5022) rail. The suppressor size and form factor allows for convenient replacement of existing terminal blocks. The suppressor connects in a series (pass-through) configuration, the screw terminals accept two wire pairs (28 - 12AWG), and the device is rated for up to 10A of continuous current. Note: The DRDC surge suppressor REQUIRES that the DIN rail have a low impedance path to Earth ground.

The DRDC Series suppressors are approved for hazardous locations that require a rating of Class1 Division 2, Groups A, B, C, D.

2. ELECTRICAL SERVICE:

2.1. Input/Output Connection	28-12AWG Screw Terminal
2.2. Configuration	2 pair / 4 wire
2.3. Protection Modes	L-G
2.4. Pass-Through Current (Max.)	10A
2.5. Maximum Continuous Operating Voltage	
2.5.1. DRDC-7	13VDC
2.5.2. DRDC-12	16VDC
2.5.3. DRDC-24	32VDC
2.5.4. DRDC-48	64VDC
2.5.5. DRDC-70	118VDC

3. ELECTRICAL PERFORMANCE:

3.1. Response Time (All Models)	5 ns (Max)
3.2. Voltage Protection Level	
3.2.1. Maximum Vpl Tested to IEEE/ANSI C62.41 10/1000μs Long W	/ave
3.2.1.1. DRDC-7	20Vpk @ 164A
3.2.1.2. DRDC-12	25Vpk @ 134A
3.2.1.3. DRDC-24	50Vpk @ 134A
3.2.1.4. DRDC-48	100Vpk @ 134A
3.2.1.5. DRDC-70	

These commodities, technology or software are exported from the U.S. in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited.



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1400-477

В

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3.2.2. Maximum Vpl Tested to IEEE/ANSI C62.4	41 8/20μs Combination Wave
3.2.2.1. DRDC-7	25Vpk @ 1400A
3.2.2.2. DRDC-12	
3.2.2.3. DRDC-24	
3.2.2.4. DRDC-48	
3.2.2.5. DRDC-70	

4. CERTIFICATIONS:

- 4.1. UL 498B, excluding DRDC-70
- 4.2. Hazardous Locations; FM Approvals Class I Division 2 US, Canada and EU
- 4.3. Labeling Requirements
 - 4.3.1. Main Product Label

Transtector
10701 Airport Drive, Hayden ID 83835
DRDC-(voltage) 1101-xxx





AEx/Ex nA IIC T4 Tamb = -40°C to +65°C Class 1, Division 2, Groups A, B, C, D; T4A Tamb = -40°C to +65°C



II 3 G Ex nA IIC T4 Tamb = -40°C to +65°C FM10ATEX0002X.

The DRDC-(voltage) shall be installed in an enclosure which provides an ingress protection rating of at least IP54.

4.3.2. Secondary Label

Serial Number
Date Code (year of construction)

5. ENVIRONMENTAL:

5.1.	Storage/Operatin	g Temperature	40°C to	+65°C
5.2.	Relative Humidity			95%

6. MECHANICAL:

6.1.	Dimensions	[100] H x [12,5] W x [100] L
	Weight (Max.)	

Note: Din-Rail must be connected to a solid earth ground for proper suppressor operation.

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SIZE CAGE
A 30992

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