

REVISIONS				
REV.	DESCRIPTION	ECN	DATE	APPROVED
B	REFER TO ECN	13066	01/07/15	KAD

MAXIMUM CHARACTERISTICS

**Application:**  
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 a 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**.

**Electrical Service:**  
**Input/Output Connection:** 28-12AWG Screw Terminal  
**Configuration:** 2 pair / 4 wire  
**Protection Modes:** L-G  
**Pass-Through Current (Max.):** 10A  
**Maximum Continuous Operating Voltage:** 32Vdc

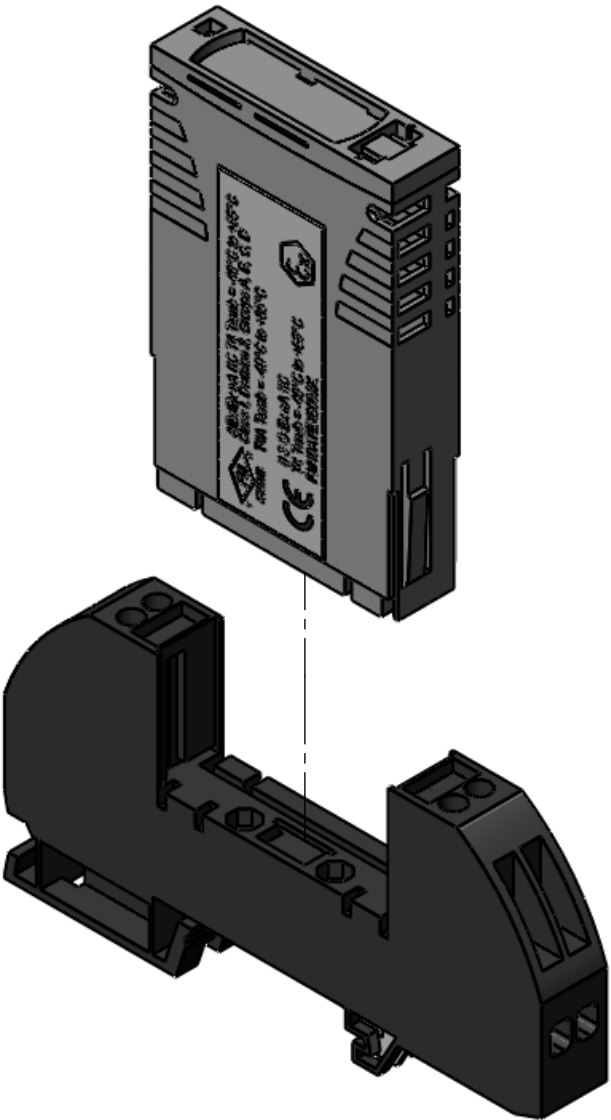
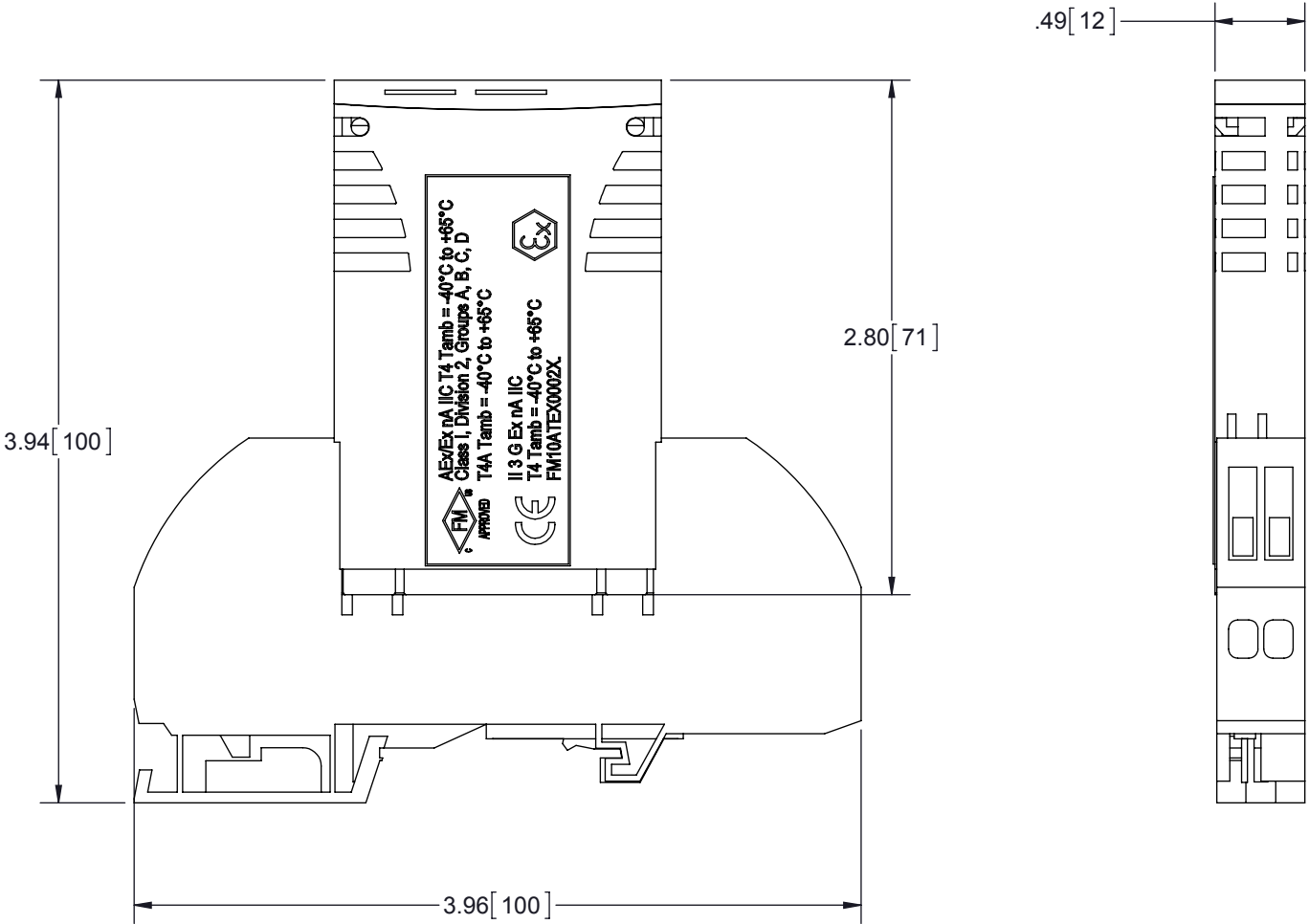
**Electrical Performance:**  
**Response Time:** 5ns (Max)  
**Voltage Protection level:**  
**Maximum V<sub>pl</sub> Tested to IEEE/ANSI C62.41 10/1000µs Long Wave:** 50Vpk @ 134A  
**Maximum V<sub>pl</sub> Tested to IEEE/ANSI C62.41 8/20µs Combination Wave:** 60Vpk @ 1200A

**Certifications:**  
UL 497B  
Hazardous Locations: FM Approvals Class I Division 2 US, Canada and EU

**Mechanical:**  
**Dimensions:** 100mm H x 12.5mm W x 100mm L  
**Weight (Max):** 2 Oz.

**Environmental:**  
**Storage/Operating temperature:** -40°C to +65°C  
**Relative Humidity:** 95%

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



ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		DRAWN DPM	DATE 7/16/13			
		ENG APPD DWR	7/18/13			
TOLERANCES: FRACTIONS=± 1/32 .XX=± .01 ANGLES=± 1 ° .XXX=± .005		PRODUCT MGR MLH	8/15/13	TITLE CUSTOMER PRINT DRDC 24		
		MARKETING APPD LJ	8/15/13			
MATERIAL NOTED		PROJECT NO.		CUSTOMER SPECIFICATION		
				SIZE B	CAGE 30992	REV B
THIRD-ANGLE PROJECTION 		NOTICE: THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSECTOR SYSTEMS. ALL RIGHTS RESERVED.		PART NUMBER 1101-680	SHEET 1 OF 1	
				SCALE 1:1	PROD CAT DCT	DOCUMENT NAME 1101-680-C

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