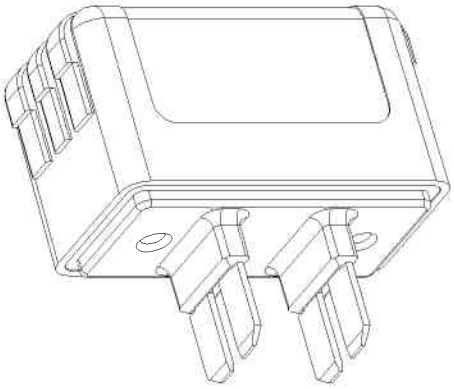
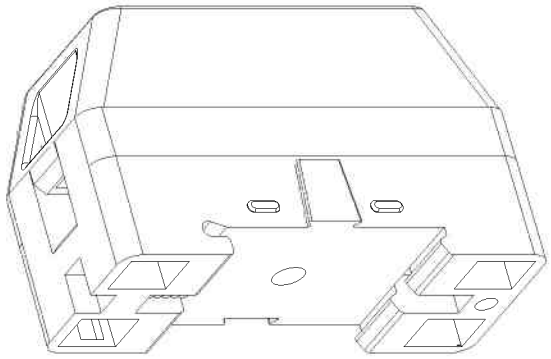
THIS DRAWING HAS BEEN GENERATED AND IS MAINTAINED BY A CAD SYSTEM. CHANGES SHALL ONLY BE INCORPORATED AS DIRECTED BY THE DESIGN ACTIVITY.

REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
O	Production Release		09/20/02	JEB
A	UPDATE PART NUMBERS	4712	11/21/02	JDW
B	REVISE MCOV	4922	08/13/03	B
C	REMOVE UL REFERENCES	8652	3/3/10	JDW





UNLESS OTHERWISE SPECIFIED DIM. IN INCHES BEFORE PLATING

MATERIAL: NOTED

DRAWN: NLD	DATE 9/20/02	
CHECKED: CDD	11/1/02	
ENGR. APPD: DWR	11/1/02	
PROJ. APPD: JEB	11/1/02	
APPROVED:		

TRANSTECTOR®

SUPERIOR SURGE SUPPRESSION

TITLE:

I^2R ICP SASD/MOV Suppressor Specification

SIZE	CAGE	DRAWING NUMBER	REV
A	30992	1400-429	C

SCALE = NA

SUMMARY
SUPPRESSOR PERFORMANCE SPECIFICATIONS

1.0 **GENERAL DESCRIPTION:**

The I^2R ICP series is offered in both DC and AC versions. Each device is a single phase, hardwire surge protector recognized to either UL 497B (DC products). Devices are not polarity sensitive and may be DIN rail mounted or simply fastened to any surface via the screw mount option on the base (4.2.2). The I^2R ICP product line is available in SASD (for sensitive electronic power systems) and MOV. Each module has an LED to report module status. Remote status capability (RSC) is available on all models except 240V versions (3.1). (One custom SASD 240 V version is available with remote status).

2.0 **ELECTRICAL SERVICE:**

2.1 Operating voltage DC modules:
- 2.1.1 12VDC SASD 2.5kA ..... 12/14VDC maximum
- 2.1.2 24VDC SASD 2.5kA ..... 24/28VDC maximum
- 2.1.3 48VDC SASD 2.5kA ..... 48/57VDC maximum

2.2 Operating voltage AC modules (RMS):
- 2.2.1 120VAC SASD 7kA ..... 120V/140V maximum
- 2.2.2 240VAC SASD 7kA ..... 240V/280V maximum
- 2.2.3 120VAC MOV 18kA ..... 120V/150V maximum
- 2.2.4 240VAC MOV 18kA ..... 240V/280V maximum

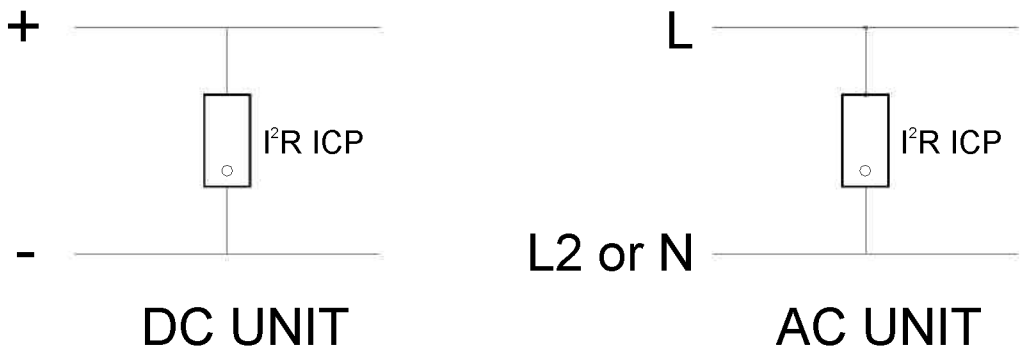
2.3 Configuration ..... 2 wire

2.4 Input Connection ..... Screw-Term. Block (4-14AWG)

2.5 Status Indicators:
- 2.5.1 Green LED ..... On = Suppressor Operational
  Off = Suppressor Not Operational or Power Not Applied
- 2.5.2 Remote Status ..... See 3.1

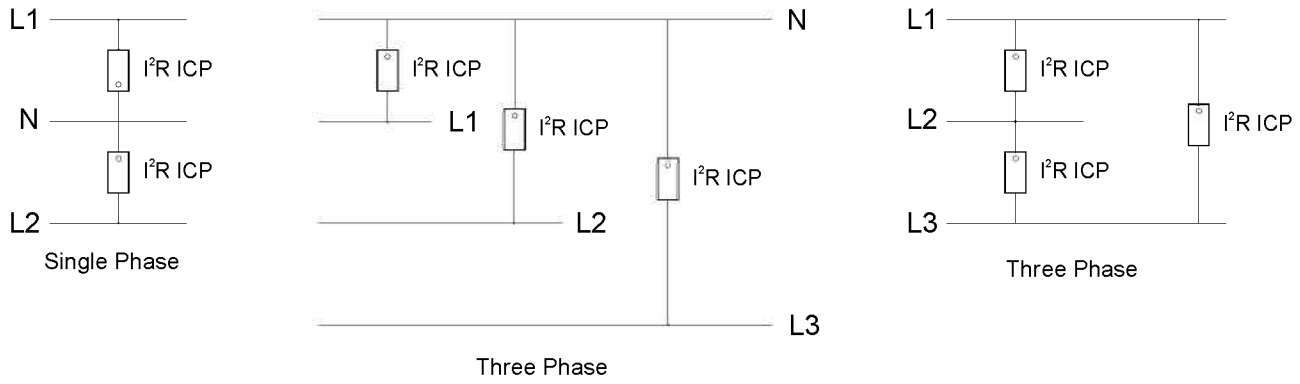
2.6 Single Unit Configuration:

SINGLE UNIT



2.7 Multiple Unit Configuration:

MULTIPLE UNITS AC



3.0 ELECTRICAL PERFORMANCE:

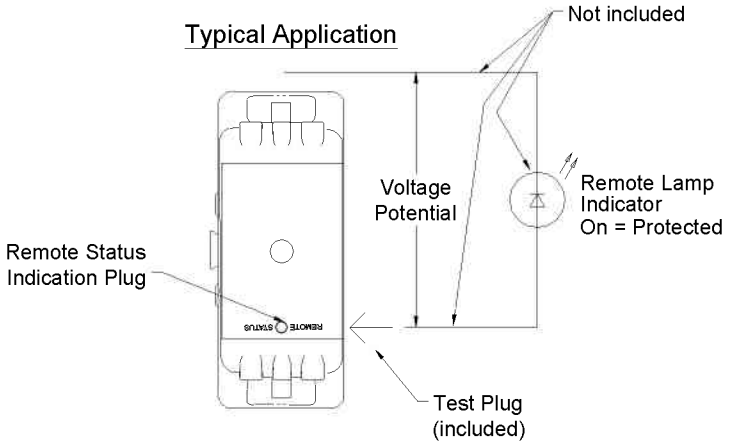
				Voltage Protection Levels			
Model	**Vbr**	**SVR (500 A 8/20)**	**MCOV**	**2.5kA 8/20**	**7kA 8/20**	**10kA 8/20**	**300A 10/1000**
I2R ICP 12 VDC	24	36	14	70	-	-	45
I2R ICP 24 VDC	40	54	28	83	-	-	64
I2R ICP 48 VDC	70	90	57	125	-	-	90
I2R ICP 120 VAC	225	330	140	275	340	-	255
I2R ICP 240 VAC	450	600	280	530	610	-	515
I2R ICP 240 VAC W/RSC	450	600	280	530	610	-	515
I2R ICP 120 VAC MOV	270	500	140	725	1300	2000	400
I2R ICP 240 VAC MOV	505	800	280	1100	1800	2400	800

3.1 Remote Status Capability (RSC):

3.1.1 Remote Status is available on all models except the 240VAC (custom 240V SASD is available with remote status)

3.1.2 Although device is not polarity sensitive, it is recommended that the remote status point be placed on the neutral or negative side.

3.1.3 Remote Status wiring*:



Suppressor Module

*WARNING!!!! LIVE ELECTRICAL POWER WHEN TVSS IS ENERGIZED.

3.2 Additional data:

3.2.1 Suppression element used:

3.2.1.1 SASD modules ..... Silicon Avalanche Diodes

3.2.1.2 MOV modules ..... Metal Oxide Varistors

3.2.2 Suppression element response time (off-to-full on):

3.2.2.1 SASD ..... less than 5 nanoseconds

3.2.2.2 MOV ..... 20 nanoseconds

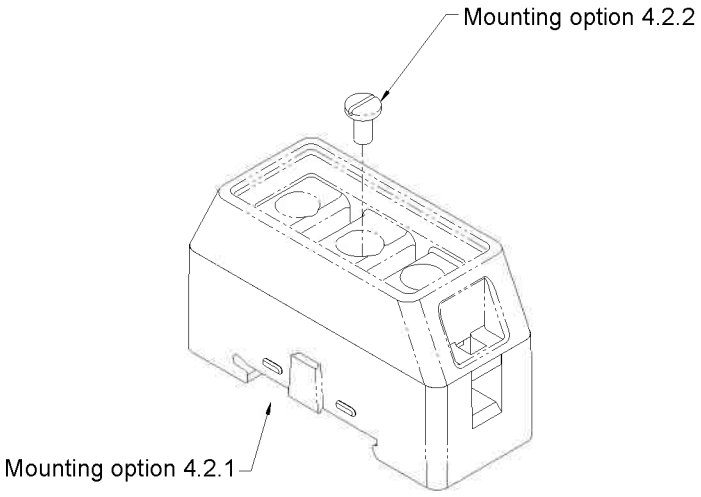
4.0 MECHANICAL:

4.1 Enclosure Description: The I^2R ICP is comprised of two portions, the module and base. When assembled, the I^2R ICP is 2.63" long, 1.09" wide and 2.67" tall.

4.2 Mounting: The I^2R ICP has two mounting options:

4.2.1 35mm DIN Rail

4.2.2 Screw mount



Base Unit

5.0 ENVIRONMENTAL:

5.1 Operating Temperature ..... -40°C to +80°C

5.2 Storage Temperature ..... -40°C to +80°C

5.3 Relative Humidity ..... 100%(non-condensing)