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## REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
A	ORIGINAL RELEASE	DD51203	2/9/10	MPD
B	ADD PART NUMBERS SHT 2	8878	5/7/10	MPD
C	CORRECT MCOV	9396	1/3/11	MPD



DRAWN:	JDW	DATE	12/15/09
CHECKED:	LJ		2/10/10
ENGR. APPD:	SEH		2/10/10
PROJ. APPD:	MPD		2/10/10
APPROVED:			



**SPECIFICATION**  
**I2R SA120-50 and I2R SA277-50**

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A	30992	1400-768	C
SCALE = N/A		PAGE 1 OF 3	

## DIN Rail mounted AC protection for 120 Vac and 277 Vac

Part Number	Description
1102-014-43	120 Vac single phase protector
1102-014-42	277 Vac single phase protector

**GENERAL DESCRIPTION:** The I2R SA -50 is a MOV based device that does not require any additional over-current protection for circuits rated up to 200 kA short circuit rating. It also offers the flexibility to be connected individually or ganged together. Each individual mode has a visual and remote indicator to provide status to critical control circuits. The I2R SA -50 offers a fail-safe/self protected design with a 3-pin NO/NC/C remote status contact, IP20 finger safe design and a small footprint. It is a UL recognized component (tested to SPD type 2) and is RoHS compliant.

### 1. ELECTRICAL FEATURES:

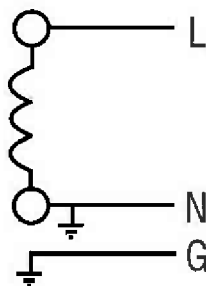
1.1. Nominal Service Voltages:	120 Vac and 277 Vac
1.2. MCOV:	180 Vac and 320 Vac
1.3. Phase:	single phase per unit
1.4. Frequency:	50/60 Hz
1.5. Nominal Discharge Current (8/20 $\mu$ s):	20 kA
1.6. SCCR:	200 kA
1.7. Intended End-Use SPD Type:	Type 2
1.8. Voltage Protection Rating:	500 V and 900 V
1.9. I <sub>max</sub> :	50 kA
1.10. UL:	UL 1449 3 <sup>rd</sup> edition recognized

### 2. ENVIRONMENTAL:

2.1. Storage Temperature:	-40°C to +85°C
2.2. Operating Temperature:	-40°C to +85°C
2.3. IP rating:	IP 20

### 3. MECHANICAL (refer to Figure 2):

3.1. Wire Range:	#14 to #6 AWG
3.2. Terminal Torque:	15 lb-in
3.3. Mounting:	35mm DIN Rail
3.4. Remote Indication:	3 pin NO/NC/C contacts
3.5. Indication:	Visual
3.6. Dimensions:	2.7"H x 0.725" W x 4.09" D (68.5mm x 18.4mm x 103.9mm)



**Single Phase**  
2 Wire + Ground

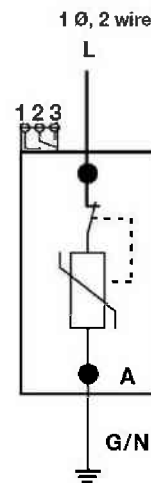


Figure 1. Wiring Diagram



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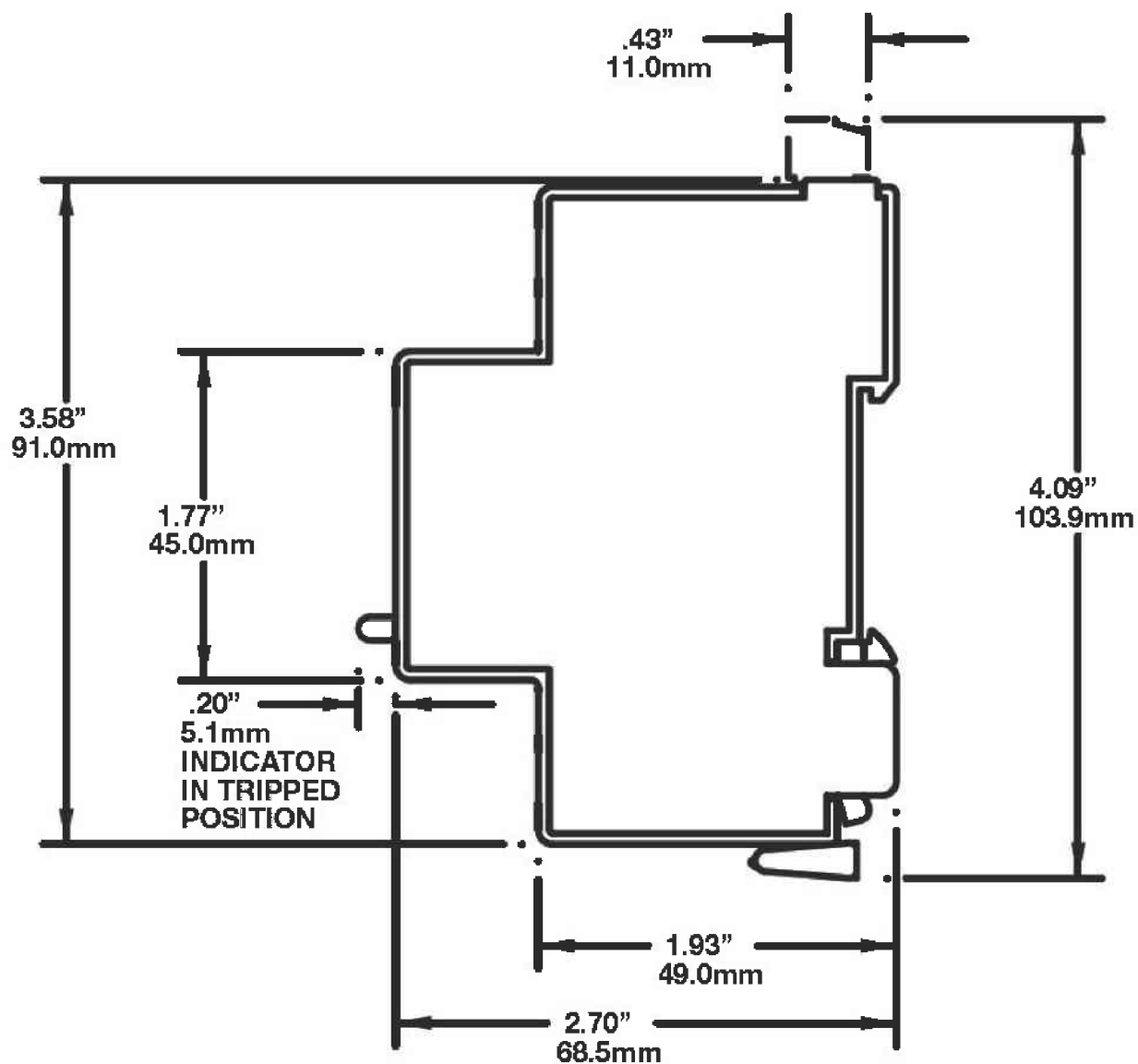


Figure 2. Mechanical Outline Drawing



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