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### REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
A	ORIGINAL RELEASE	DD51203	2/9/10	
B	ADD PART NUMBERS SHT 2	8878	5/7/10	MPD



DRAWN: <b>JDW</b>	DATE 12/15/09
CHECKED: <b>LJ</b>	2/11/10
ENGR. APPD: <b>MTH</b>	2/11/10
PROJ. APPD: <b>MPD</b>	2/11/10
APPROVED:	



## INSTALLATION INSTRUCTIONS I2R SA120-50 and I2R SA277-50

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SIZE <b>A</b>	CAGE <b>30992</b>	DRAWING NUMBER <b>1200-345</b>	REV <b>B</b>
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



Figure 1

- Mounting:** I2R SA -50 is designed to mount onto a 35mm DIN rail or top-hat rail (standard EN 50022, BS 5584) set in the horizontal position. To install, first hook the line side over the 35mm DIN rail and then push in the load side until the blue spring loaded mounting clip “clicks” onto the rail with the upper label text shown in the upright position reading left to right (See Figure 1).
- Replacement / Removal:** If the blown indicator tab is visible on any of the multiple pole units, then the entire unit has reached the end of its life and must be replaced. To remove, push up on the unit
- Wire Installation:** #6 – #14 AWG wire may be used. Maximum torque to be applied to terminal screws is 14.75 in-lb. Strip back wire insulation 8mm (5/16”). Interconnecting wire should be no longer than 500mm (20”) in total length. Wire bending radius should be > 100mm (4”). Do not loop or twist interconnecting wire. Failure to meet these requirements will result in higher let-through voltages. I2R SA -50 is installed in parallel with the load or the electrical system wiring. Determine electrical voltage configuration and proper modes of protection and install wiring as shown in Figure 2.



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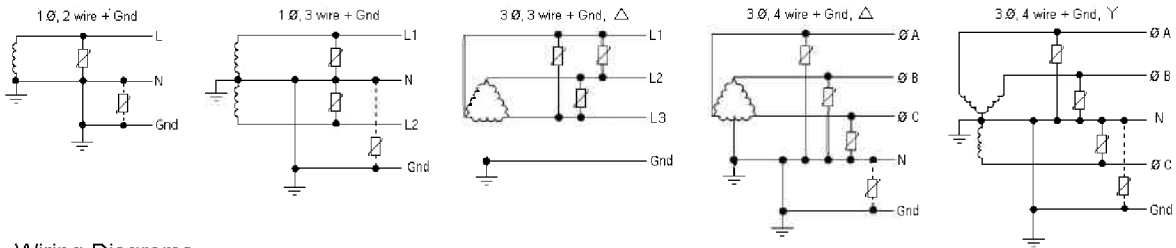
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### Example Schematics



### Wiring Diagrams

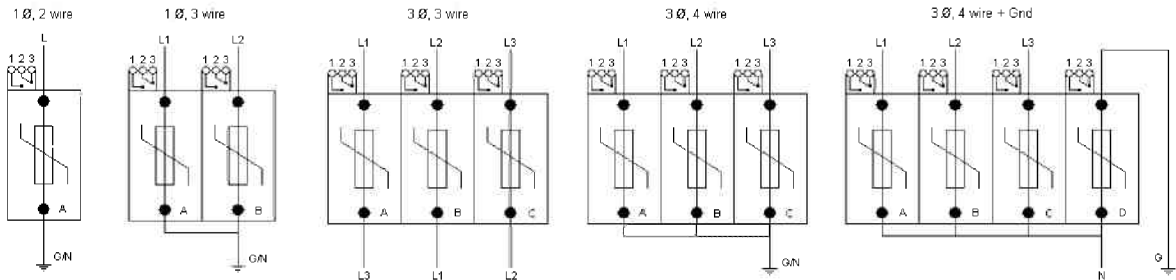


Figure 2

**4. Micro-Switch Installation:** Remote signaling is available on all I2R SA -50 products. #16 – #30 AWG signal wire may be used. Maximum torque rating for the terminal screw is 1.80 in-lb. The maximum continuous current rating for the remote indicator is 3A. Install signal wiring as shown in Figure 3.

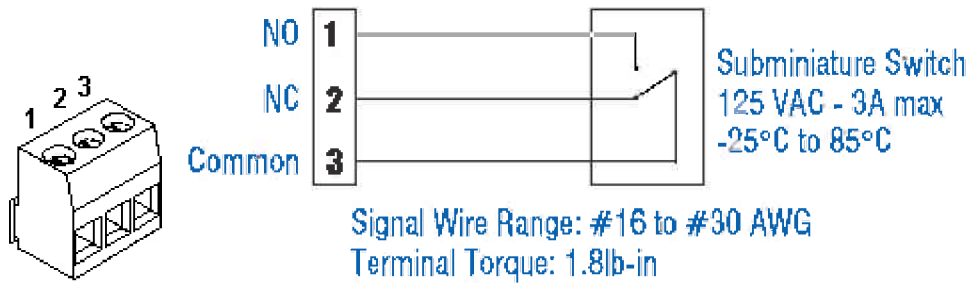


Figure 3

**NOTE: I2R SA -50** Have been successfully evaluated/ tested as Recognized Components to UL 1449 3<sup>rd</sup> edition without any external over-current protection for circuits rated up to 200 kA short circuit current



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