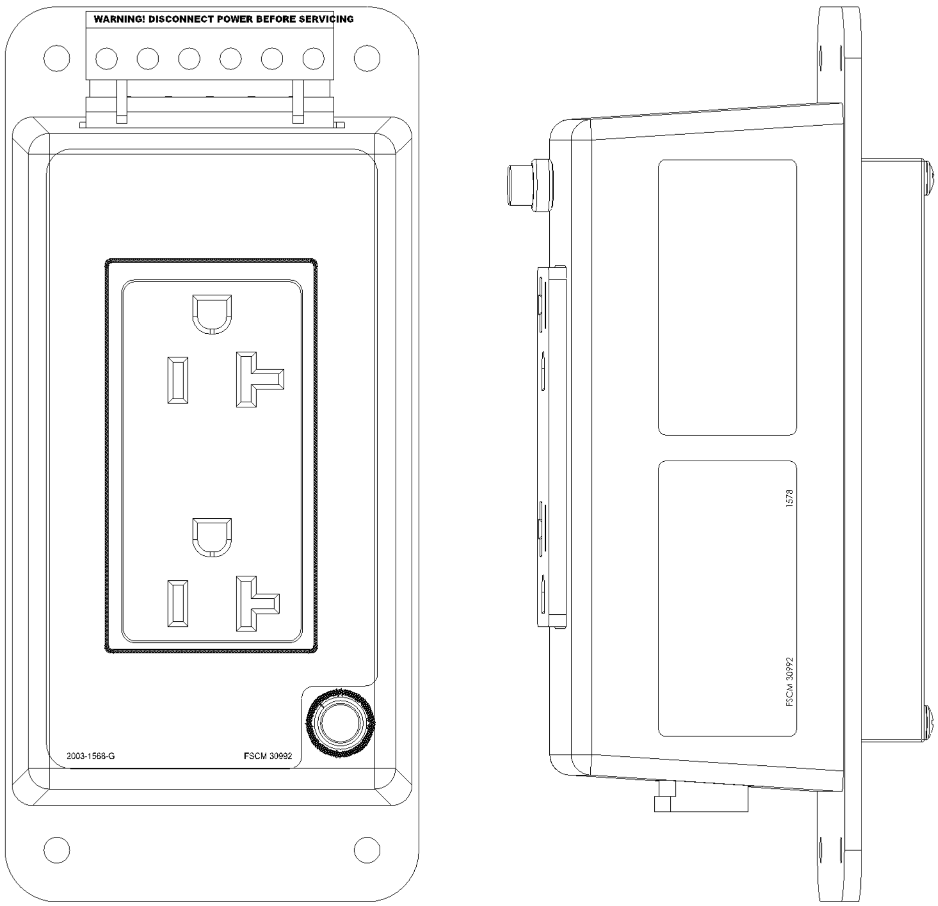
REVISIONS				
LTR	DESCRIPTION	ECN	DATE	APPROVED
A	ADD WIRING DIAGRAM	4373	12/17/01	JDW
B	UPDATE PER REDLINES	9347	1/28/11	MPD

ACP 100 DR2 SERIES SPECIFICATION



DRAWN DWR	11/07/01
CHECKED CVM	11/07/01
ENGRGAPPD MLH	11/07/01
PROJ APPD JDW	12/17/01
APPROVED	

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TITLE
PRODUCT SPECIFICATIONS
ACP 100 DR2 SERIES

DRAWING NUMBER 1400-400

REV B

CAGE 30992

1.0 Introduction: The ACP 100 DR2 is an AC protector designed for 120V control panel applications. It provides a 6-position quick-connect terminal for hardwiring AC input power and auxiliary output power. It also provides a duplex 15 or 20A receptacle. The device may be mounted vertically or horizontally on a strip of 35mm din-rail or directly to a panel.

The suppression capability of the device is 8KA 8/20us. Input power, auxiliary power, and the receptacles are all protected. A red neon lamp indicates the status of the suppressor.

2.0 Electrical Characteristics: Suppressor to provide non-interrupted service from input terminal to output terminal and receptacles.

2.1 Standard Electrical Service: 120VAC 50/60Hz

2.2 Standard Configurations: NEMA 5-20 (ACP 100 DR2); NEMA 5-20 W/ GFI (ACP 100 DR2 GFI); NEMA 5-15 (ACP 100 DR2 5-15); NEMA 5-15 W/ GFI (ACP 100 DR2 5-15 GFI); NEMA 5-15 w/ 6' Cord (ACP 100 DR2 5-15 WC).

2.3 Application Rating:

2.3.1 The ACP 100 DR2 product line is designed to be installed in application Locations up to C2 per ANSI/IEEE C62.4 1991 Exposure Categories.

2.4 Electrical Performance:

2.4.1 Suppressor Performance: Input Line to Neutral, Output Line to Neutral, Receptacles Line to Neutral protected.

2.4.1.1 SVR = 330V @ 500A 8/20 μs
2.4.1.2 Vbr ~ 233V @ 50mA
2.4.1.3 Vpl ~ 306Vp @ 350A 10/1000 μs
2.4.1.4 Vpl ~ 486Vp @ 8000A 8/20 μs

2.4.2 Testing: Per ANSI/IEEE C62.45 1992 Using IEEE C62.41 1991 Wave Shapes

2.4.2.1 Location Category A3: 6kV, 200A, 100kHz Ring Wave.

2.4.2.2 Location Category C2, B3: 6kV, 500A, 100kHz Ring Wave; 10kV, 5kA Combination Wave.

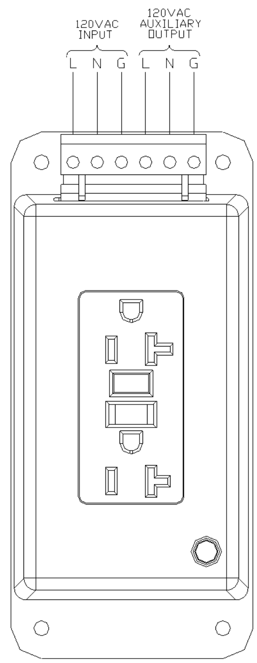
2.4.2.3 Long Wave 10/1000 μs Stress Surge Per IEEE C62.41 1991 (Section 10.2 and Table 8).

2.4.3 Response Time (Max.):.. <5 nanoseconds

2.4.4 Standby Power (Max.): .... 1 Watt

2.4.5 Operating Temperature: .... -30 C TO +65 C

2.5 Wiring Diagram:



3.0 Status Indicator: The ACP 100 DR2 is equipped with a neon lamp to indicate the status of the suppressor. An illuminated lamp indicates that the suppressor is operational and power is applied to the unit. An extinguished lamp indicates that the suppressor is no longer operational. Power may still be applied, however, when the lamp is extinguished.

4.0 Mechanical:

4.1 Material Ratings: The enclosure is fabricated from a Plastic Noryl material with a UL fire rating of UL 94-V0. The PCB assembly will also be fabricated from materials with a UL flame rating of UL 94-V0.

4.2 Dimensions: The overall size of the suppressor is 2-1/2"H x 3"W x 6-1/2"L (6.35cm x 7.62cm x 16.5cm).

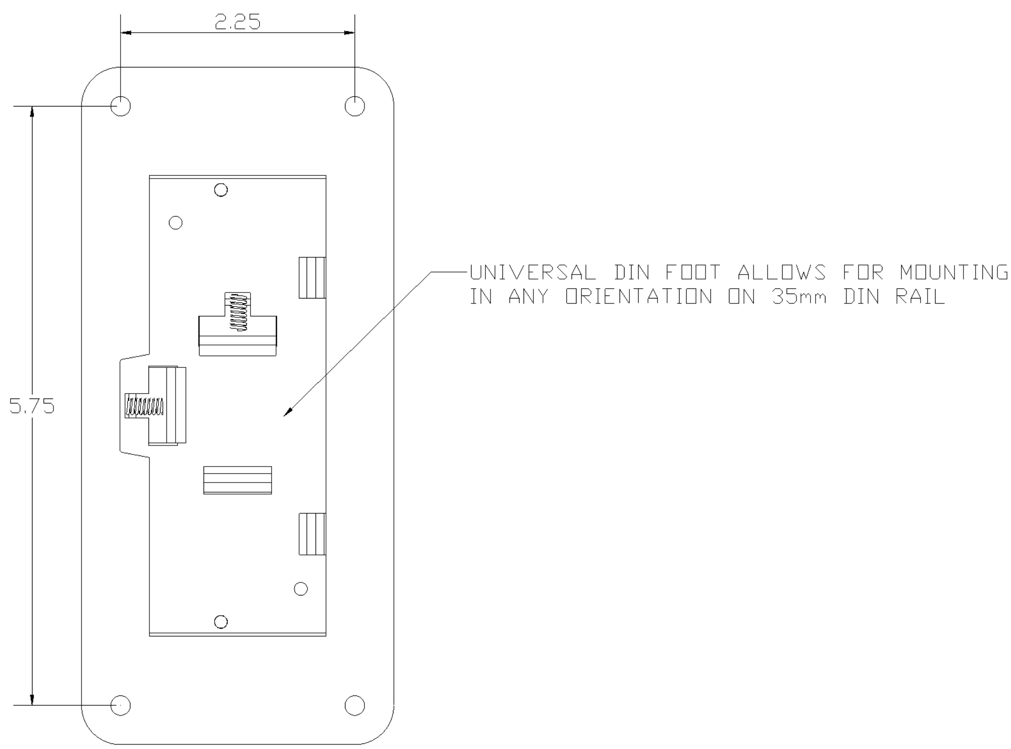
4.3 Weight: The weight of the ACP 100 DR2 is 0.74lb (0.34kg).

4.4 Electrical Connections: Electrical power connections are made to the 15A version using the quick-connect terminal header that is sized for 24 AWG to 12AWG wire. The 20A version use screw terminals. The recommended wire gauge is 12AWG. All cable lengths should be as short as possible for optimum suppressor performance.

4.5 Disconnect: It is recommended that the suppressor be installed off of a dedicated disconnect, molded case switch or circuit breaker. The device should have either a 15 or 20 Amp rating, depending on the rating of the ACP 100 DR2 that is to be installed. This would facilitate removing power from the suppressor for servicing purposes. The disconnect should be sized for use with the appropriate gauge wire for the application and fault current rating of the power distribution system.

4.6 Markings: Each ACP 100 DR2 is marked with its model name and part number. In addition, each unit is marked with its SVR and service rating. A warning label is applied to the quick-connect terminal plug to prevent the unit from being serviced under energized conditions.

4.7 Mounting: The ACP 100 DR2 may be mounted either directly to a panel or in any orientation on a strip of 35mm din rail. Panel mounting dimensions are given below. Each mounting hole has a diameter of 0.20," #8 hardware is recommended for installation. When panel mounting, it is also recommended that the din foot be unscrewed so that the back cover sits flush against the panel.



Mounting Specifications