

Certificate of Compliance

Certificate Number **20090818 – E187183A**
Report Reference **E187183, 2000 March 29**
Issue Date **2009 August 20**

CODE 1: Work may proceed.



Permission to proceed does not constitute acceptance or approval of design details, calculations, analysis, test methods or materials developed or selected by the supplier and does not release the supplier from full compliance with contractual obligations.
Name: jared_wahman Date: 11/16/2009

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**Underwriters
Laboratories Inc.®**

Issued to:

DAIRYLAND ELECTRICAL INDUSTRIES INC

**SUITE A
3185 DEER POINT DR
PO BOX 187
STOUGHTON, WI 53589 USA**

*This is to certify that
representative samples of*

Surge Protectors and Isolators for Use on Cathodically-protected Systems for Use in Hazardous Locations

Model Descriptions:

Polarization Cell Replacement Units:

Models PCR followed by -3.7kA, -5kA, -10kA, -15kA, may be followed by /80A, may be followed by -S, may be followed by either -50, -75, or -100, may be followed by any combination of the following: -CC, -LA, -4H, -CS2, may be followed by three letter suffix for external mounting option.

Models PCR followed by -3.5kA, -9kA, -14kA, may be followed by /80A, may be followed by -S, may be followed by either -50, -75, or -100, may be followed by any combination of the following: -CC, -LA, -4H, -CS2, may be followed by three letter suffix for external mounting option.

Models PCR followed by -2.6kA, -6.8kA or 10.5kA, may be followed by /44A, may be followed by -S, may be followed by either -50, -75, or -100, may be followed by any combination of the following: -CC, -LA, -4H, -CS2, may be followed by three letter suffix for external mounting option.

Overvoltage Protectors:

Models OVP2, followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 1.2, may be followed by 75, may be followed by -R.

Models OVP2, followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 2.0, 3.7, or 5.0, may be followed by 100, may be followed by -R.

Decouplers & Isolators:

Models SSD, GI, GD, GCMD, GMD, PCD or TSD followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 1.2, may be followed by 75, may be followed by -R.

Models SSD, GI, GD, GCMD, GMD, PCD or TSD followed by 1/1, 1.5/1.5, 2/1, 2/2, 3/1, 4/1, followed by 2.0, 3.7, or 5.0, may be followed by 100, may be followed by -R.

*Have been investigated by Underwriters Laboratories Inc.® in accordance
with the Standard(s) indicated on this Certificate.*

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Standard(s) for Safety:

The basic standards used to investigate these products are:

- (1) Effective grounding path characteristics in accordance with NFPA 70, Article 250.2 and 250.4(A)(5).
- (2) Providing isolation of objectionable direct current ground currents in accordance with NFPA 70, Article 250.6(E).
- (3) Providing over-voltage protection in accordance with the applicable requirements of ANSI C62.11.
- (4) Hazardous location features in accordance with the applicable requirements of UL 1604.
- (5) Standard No. CAN/CSA C22.2 No. 213-M1987, 1st Ed., Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

Additional Information: (Cont.)

Ratings:

60 Hz Current (Short Duration)

Maximum Short Duration 60 Hz AC-RMS Current				No. of Cycles
PCR – 3.7kA	PCR – 5kA	PCR – 10kA	PCR – 15kA	
6,500	8,800	20,000	35,000	1
5,000	6,800	15,000	27,000	3
4,200	5,700	12,000	21,000	10
3,700	5,000	10,000	15,000	30

50 Hz Current (Short Duration)

Maximum Short Duration 50 Hz AC-RMS Current				No. of Cycles
PCR – 3.5kA	PCR – 5kA	PCR – 9kA	PCR – 14kA	
6,100	8,800	19,000	33,000	1
4,700	6,800	14,000	25,000	3
3,900	5,700	11,000	20,000	10
3,500	5,000	9,000	14,000	30

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Additional Information:
(Cont.)

Ratings:

16-2/3 Hz Current (Short Duration)

Maximum Short Duration 16-2/3 Hz AC-RMS Current			No. of Cycles
PCR – 2.6kA	PCR – 6.8kA	PCR – 10.5kA	
4,600	14,000	25,000	1
3,500	10,000	19,000	3
3,000	8,500	15,000	10
2,600	6,800	10,500	30

50 and 60 Hz Current (Steady-State)

Amps AC-RMS Symmetrical		
	50/60 Hz	50/60 Hz
	PCR-3.5kA through PCR- 15kA	PCR-3.5kA/80A through PCR- 15kA/80A
At 20°C ambient	50	90
At 65°C ambient	40	72

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Additional Information:
(Cont.)

Ratings:

16-2/3 Hz Current (Steady-State)

	Amps AC-RMS Symmetrical	
	PCR-2.6kA, -6.8kA, -10.5kA	PCR-2.6kA/44A, -6.8kA/44A, -10.5kA/44A
At 20°C ambient	24	48
At 65°C ambient	20	40

Cat. No.	Lead Length	Voltage Clamping Level			
		Wave Form/Crest Current			
		8 x 20 us 50kA	4 x 10 us 50kA	4 x 10 us 75kA	8 x 20 us 100kA
PCR (all suffixes)	12	4.0kV	4.5kV	5.75kV	NA
PCR (all suffixes)	36	6.0kV	9.0kV	10.3kV	NA

Note: "NA" means the models have achieved the associated Lightning Surge Current Rating, but voltage clamping capabilities are not defined.

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers: the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

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For questions in The United States of America you may call 1-877-UL-HELPS.