

DESCRIPTION

PRODUCT COVERED:

USL, CNL - PoE Injector, Model Series PW183, followed by additional suffixes as noted under the Part Number Designation, and Model Series PENT1040X56XX-X-XX, where X can be any alphanumeric character or blank.

GENERAL CHARACTER AND USE:

This product is a Power over Ethernet (PoE) Injector incorporating semiconductor components in the primary circuit and an isolating transformer. The input is supplied from an appliance inlet, and the unit is provided with RJ-45 connectors for connection to an ethernet network that does not connect to outside plant and to transfer data and power to another device. The outputs are considered LPS, SELV, and non-energy hazardous.

ELECTRICAL RATINGS:

| Model | Input, 50-60 Hz. | | Output, d.c. | |
|---|------------------|------------|--------------|-------------|
| | V | A | V | A |
| PW183-XA-48-XX-X-XX, PW183-XC-48-XX-X-XX | 100-250 | 1.0 | 48 | 0.67 |
| PW183-XB-48-XX-X-XX, PW183-XD-48-XX-X-XX | 100-250 | 1.0 | 48 | 0.625 |
| PW183-X-X-56-XX-X-XX | 100-250 | 1.0 | 56 | 0.54 |
| PENT1040X56XX-X-XX | 100-250 | 1.0 | 56 | 0.71 |

NOTE: The marked output voltage may be less than the rated output voltage per the table, provided that the output current remains the same, or is less, as shown in the table.

PART NUMBER DESIGNATION:

| | | | | | | |
|--------------|----------|----------|-----------|-----------|----------|-----------|
| <u>PW183</u> | <u>X</u> | <u>X</u> | <u>XX</u> | <u>XX</u> | <u>X</u> | <u>XX</u> |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

1. Model Number for family related designs.
2. Manufacturing Location: A-Z.
3. **A) Design Revision Changes (48V output):** A, C = 0.67 A.
B, D = 0.625 A
B) Design Revision Changes (56V output): **A, C = 0.54 A.**
B, D = 0.54 A
4. Tabulated output voltage as noted in Electrical Ratings, above.
5. Number Options: 00-99.
6. Input Options: F = Class I, C14 Appliance inlet.
N = Class II, C8 Appliance inlet.
Q = Class II, C18 Appliance inlet.
7. Number Options: 00-99.

| | | | | | | | |
|-------------|----------|------------|----------|-----------|-----------|----------|-----------|
| <u>PENT</u> | <u>X</u> | <u>XXX</u> | <u>X</u> | <u>XX</u> | <u>XX</u> | <u>X</u> | <u>XX</u> |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

1. Model Number for family related designs.
2. Number of Outputs: = 1-9.
3. Output Wattage: = 040 = 40 Watts
4. Design Revision Changes: = A, B, C, D
5. Tabulated output voltage as noted in Electrical Ratings, above.
6. Number Options: 00-99
7. Input Options: F = Class I, C14 Appliance inlet.
8. Number Options: 00-99.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Special Considerations - The following items are considerations that were used when evaluating this product.

USL/CNL indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment - Part 1: General Requirements, CAN/CSA-C22.2 No. 60950-1-03, UL 60950-1, First Edition, dated April 1, 2003, with Revisions through and including July 7, 2006.

The equipment has been evaluated for use in a Manufacturer's Recommended ambient (Tma) of 40° C.

The equipment is considered movable, Class I (earthed) or Class II (double insulated), pluggable Type A, uses a detachable power cord, intended for use on a TN power system.

This product has been investigated for pollution degree 2 applications. It is considered for IPX0 ordinary protection against the ingress of water.

Disconnect Device - The following component is considered the equipment disconnect device: Appliance Inlet.

Limited Power Source: All outputs are LPS.

The RJ-45 connectors were not evaluated for connection to outside plant and should only be connected to ethernet networks and devices that do not directly exit the building.

Required clearance distances were multiplied by an altitude correction factor of 1.15 to account for the manufacturer's altitude rating of 10,000 ft (3048 m) per Table A.2 of IEC 60664-1.

Model Differences

Models are identical to each other except for differences in secondary circuitry, pin-out on ethernet connectors, output ratings (as noted above) and aesthetics.

Models PW183-X-X-56XX-F-XX are identical to each other except, Models PW183-RB-56XX-F-XX and PW183-RD-56XX-F-XX are provided with the detect circuitry on the SELV output board which detects the output load and allows the output to activate. Models PW183-RA-56XX-F-XX and PW183-RC-56XX-F-XX are not provided with the detect circuitry.

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