

1. Description

The AL-1116 is a 8 isolated analog input card. It can measure tension or current. The isolation is between each point, system and ground.

2. Specifications

2.1. General

- I/O capacity: 8
- LEDs status indication
- Optic isolation per input
- LED card accessing
- MTBF: 79.000 hours @ 40°C
based on MIL-HDBK-217E
- Mechanical protection: IP 20, finger access and no protection for water
based on IEC Pub. 144(1963)
- Operation temperature: 0 a 55°C
based on IEC 1131
- Stocking temperature: -25 a 75°C
based on IEC 1131
- Operation humidity: 5 a 95% without condensation
based on IEC 1131 level RH2
- Weight:
net: 800 g
packed: 860 g

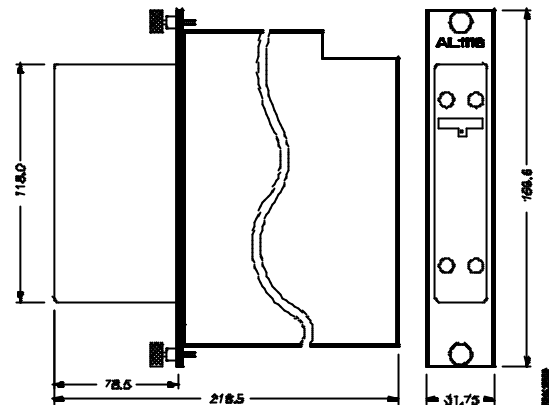
2.2. Electrical

- Resolution:
12 bits
- differential common mode:
750 V pick
- Input Impedance for tension measurement:
100 k Ω
- Input Impedance for current measurement:
125 Ω
- Input levels:

AL-1116/0 - 20 mA	0 a 20 mA 4 a 20 mA
AL-1116/0 - 5 V	0 a 5 V 1 a 5 V
AL-1116/0 - 10 V	0 a 10 V

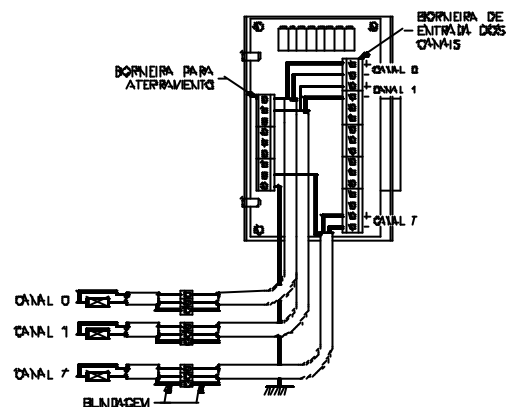
- Precision:
0.1% a 25°C
- "Drift":
20 ppm/°C
- Power requests:
+12V - 150 mA typical
+ 5V - 10 mA typical

3. Physical Dimensions

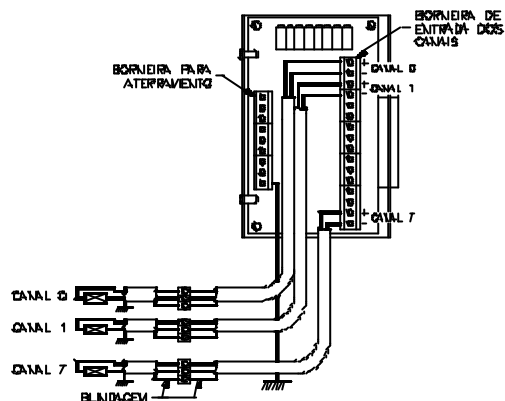


4. Installation

4.1. Grounding on PLC



4.2. Grounding on Signal Transducers



5. Calibration

The AL-1116 is fully calibrated at factory. But for specific applications or for long time running the AL-1116 has trim pots available for re-calibration. This operation must be made by trained technicians.