

1. Product Description

The AL-1518 power supply is general use to maintain ALTUS modules, sensors elements or electric control panels. It has one switched output in 24 Vdc with 5A current capacity.

2. Packing List

This product is composed by only its 24 Vdc / 5A switching power supply.

3. Functional Characteristics

3.1. General Characteristics

- Connection to load: by screwed terminal
- Connection to AC: by screwed terminal
- Power supply fixation: in DIN rail according to EN50022
- Maximum and minimum gauges of connection cables in mm²:
Removable input terminals: 3 x 1.5 mm²
Removable output terminals: 4 x 1.5 mm²
- Output status indication: by LED
- Mechanical protection: IP20 - against fingers access and without protection against water according to IEC Pub. 144 (1963)
- MTBF: 100.000 hours @ 40°C
calculated according MIL-HDBK-217E
- Operation temperature: 0 a 60°C
exceed the norm IEC 1131
- Storage temperature: -25 a 75°C
according to IEC 1131
- Air relative umidity: 30 to 90% without condensation
- Weight:
0.820 Kg without package
0.978 Kg with package

3.2. Electrical Characteristics

- Nominal supply voltage: 90 to 265 Vac
- Frequency of supply voltage in AC: 50/60Hz
- Output voltage: 24 Vdc +3%/-1%
- Nominal output current: 5A
- In rush current during energization: < 22A
- Ripple in outputs: < 20 mVAC
- Spikes: < 100 mV
- Operation time without power supply:
15 ms (115 VAC)
80 ms (230 VAC)
- Input power: 120 VA
- Power factor: 0.6
- Efficiency: 85%
- Protections:
overcurrent: > 7.5 A typic
overload and overtemperature
overvoltage: > 26.5 V typic

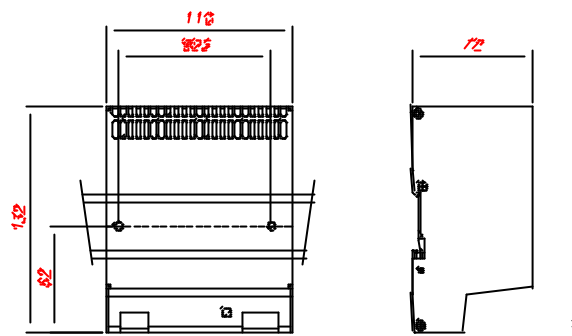
Anyone of this failures provoke power turn off during its occurrence, being automatically turn on after one minute.

- Electric Rigidity:
1500 Vdc between input and output during one minute
1000 Vac between input and output during one minute
according IEC 1131 and IEC 255-5
- Electrostatic surge discharge:
according to IEC 1131, level 4
- Electrical noise immunity (oscillating wave):
according to IEC 1131 and IEEE C37.90.1 (SWC)
- Electrical noise immunity (fast transient)

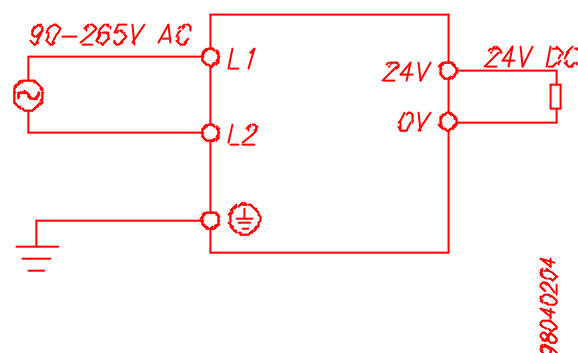
according to IEC 801-4, level 4

- Irradiated electrical field immunity: 10V/m @ 140 MHz
according to IEC 1131
- Electric discharge protection
according to IEC 536 (1976), class I.

4. Physical Dimensions



5. Installation



Conect the load to the terminals 24V and 0V and the mains to the terminals L1 (phase) and L2 (neuter) and protection ground according to figure shown above.

6. Revisions

The revision of this document is shown at the right upper corner, indicating changes.

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The following historic shows changes to each revision:

Revision: A	Date: 03/31/98
Approval: Luiz Gerbase - Director- R&D	
Author: Alexandre Voigt da Poian - R&D	

Observations:

- Initial revision of this document