

I/A Series[®] Hardware

Field Automation Subsystem

Micro-I/A[™] 24 V dc Power Supply (Type 1)



PACKAGING

The power supply is packaged in a compact Type 1 physical configuration which permits:

- Easy installation and removal
- DIN rail mounting in field locations adjacent to the Micro-I/A Type 1 Station

POWER INPUT/OUTPUT

The supply can be fed from a wide range (100 to 120 V ac or 200 to 240 V ac) of input voltages. Its output is regulated to 24 V dc, +/- 5%.

VISUAL INDICATOR

A green LED indicator located at the front of the supply is illuminated when 24 V dc power is being provided to the associated Micro-I/A Type 1 Station.

DESCRIPTION

The Micro-I/A 24 V dc Power Supply (Type 1) provides primary 24 V dc power to a Micro-I/A Type 1 Station. This power supply includes a single cable to connect the 24 V dc output to the applicable processor.

FUNCTIONAL SPECIFICATIONS

Electromagnetic Compatability

EUROPEAN COMPLIANCE

Complies with Council Directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC

RADIO FREQUENCY EMISSIONS

EN 55011 Class A, CISPR 11 Class A

ELECTROSTATIC DISCHARGE

EN 61000-4-2, IEC 61000-4-2,
4 kV/8 kV contact/air

RF RADIATED FIELD

EN 61000-4-3, IEC 61000-4-3, 10 V/m

ac POWER

Burst

EN 61000-4-4, IEC 61000-4-4, 2 kV

Surge

EN 61000-4-5, IEC 61000-4-5, 1 kV/2 kV

Conducted RF

EN 61000-4-6, IEC 61000-4-6, 3 V

I/O SIGNAL/CONTROL

Burst

EN 61000-4-4, IEC 61000-4-4, 1 kV

Surge

EN 61000-4-5, IEC 61000-4-5, 1 kV

Conducted RF

EN 61000-4-6, IEC 61000-4-6, 3 V

Power

INPUT

Voltage

100 to 120 V ac or 200 to 240 V ac, 50 to 60 Hz

Current

0.83 A (typ) at 100 V ac

0.42 A (typ) at 200 V ac

OUTPUT

Voltage

24 V dc +/-5%

Current

0.9 A (max)

Power

15 W (typ); 21.5 W (max)

Certification

Listed by Underwriters Laboratories (UL) to UL1950 and CAN/CSA C22.2 No. 950 as Information Technology Equipment (ITE). Power supply outputs are Safety Extra Low Voltage (SELV) and limited power (Class 2). Units also comply with the European Low Voltage Directive 73/23/EEC.

ENVIRONMENTAL SPECIFICATIONS

Ambient Temperature

OPERATING

0 to 50°C (32 to 122°F)

STORAGE

-40 to +70°C (-40 to +158°F)

Relative Humidity

OPERATING

5 to 95% (Noncondensing)

STORAGE

5 to 95% (Noncondensing)

Mechanical

VIBRATION (OPERATING)

0.75 g (5 to 200 Hz)

Chemical

CORROSION AND CONTAMINATION

Per ISA Standard S71.04, Class G1

Flammability Effects

CIRCUIT BOARD

94V1

Transportation

ASTM D 999-75

PHYSICAL SPECIFICATIONS

Mass

485 g (1.07 lb)

Height

173 cm (6.8 in)

Width

117 cm (4.6 in)

Depth

89 cm (3.5 in)

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