

UNI EN ISO 9001:2008

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FEATURES

- AC line input: 100 ÷ 250 Vac

Input/output galvanic isolated at 4 KVac
 Output: 24Vdc, ±10% adjustable, 1A

- EMC compliant CE mark
- In compliance with the safety standard
- Suitable for DIN rail mounting in compliance with EN 50022

Universal Switching Power Supply Unit with 24Vdc @ 1A output DAT 420



GENERAL DESCRIPTION

The universal AC line input switching power supply unit DAT 420 is designed to provide up to 1A current at 24 Vdc regulated voltage. The DAT 420 is in compliance with the Directive 2004/108/EC on the Electromagnetic Compatibility and with the Directive 2006/95/EC on the Electric Safety.

It is housed in a plastic enclosure of 35 mm thickness suitable for DIN rail mounting in compliance with EN-50022 and EN-50035 standards.

USER INSTRUCTIONS

The DAT 420 must be connected as follows:

The input connections must be made as shown in the section "Input connections".

The AC input must be connected between the terminals F (AC) and G (AC); the terminal E can be used for the Protection Earth connection.

The output voltage can be regulated up to ±10% of the nominal value by adjusting the trimmer located near the output connector.

The output connections must be made as shown in the sections "Output connections"

The regulated output voltage is supplied between the terminals A or B (positive) and the terminals C or D (negative).

To install the transmitter refer to section "Installation Instructions".

Input

Voltage $\begin{array}{ll} \text{Voltage} & \text{100} \div 250 \, \text{Vac} \\ \text{Current} & \text{0.30} \div 0.12 \, \text{A max} \\ \text{Frequency} & \text{48} \div 65 \, \text{Hz} \\ \text{Start-Up Current Spike} & \text{7 A max} \\ \text{Power Factor} & \text{0.60} \div 0.65 \\ \end{array}$

Output

Voltage 24 Vdc ±10% trimmer regulation

Nominal Current 1 A Current Limitation 1.8 A

Ripple with nominal lo

Load variation response

1.8 A

30 mVpp 80 KHz max.

50 mV with (0-1) A step

Start-Up rise time 7 ms

Shut-down maintenance 10 ms with nominal Vi and lo Efficiency 82% with nominal Vi and lo

Environmental data

Input/Output Isolation 4000 Vac / 60 sec. Input/PE Isolation 1500 Vac / 60 sec. Electric Safety EN60950

Electric Safety
Electromagnetic Compatibility (EMC)

(for industrial environments) Immunity: EN 61000-6-2; Emission : EN 61000-6-4.

Operating Temperature $-10 \div 50$ °C Storage Temperature $-20 \div 60$ °C Humidity (not condensed) $0 \div 85\%$ Weight about 240 g

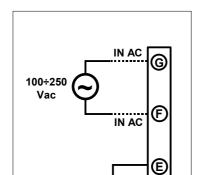
INSTALLATION INSTRUCTIONS

The device DAT 420 is suitable for DIN rail mounting.

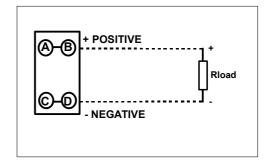
It is necessary to install the device in a place without vibrations; avoid to routing conductors near power signal cables .

DAT 420 CONNECTIONS

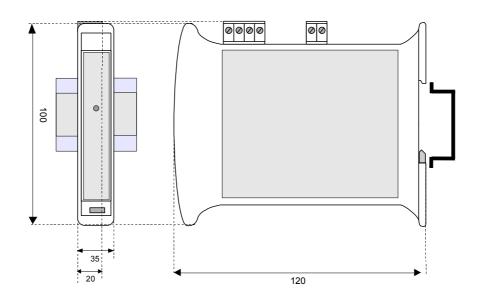
INPUT CONNECTIONS



OUTPUT CONNECTIONS



DIMENSIONS (mm)



ISOLATION STRUCTURE



HOW TO ORDER

ORDER CODE: DAT 420