Manual

DIN Rail Mount Power Supply 24V

Release	**1.0**
Type	**11076**

Subject to error and alteration:

Since it is possible that we make mistakes, you mustn't use any of our statements without verification. Please, inform us of any error or misunderstanding you come about, so we can identify and eliminate it as soon as possible.

Carry out your work on or with W&T products only to the extent that they are described here and after you have completely read and understood the manual or guide. We are not liable for unauthorized repairs or tampering. When in doubt, check first with us or with your dealer.

Power supply for DIN rail mount, #11076

The 11076 is a 24V / 60W switching type universal power supply suitable for DIN rail mounting. It carries a CE Mark and UL approval and meets industrial EMC requirements, so that the power supply is also usable in worldwide industrial applications.

The power supply can power various W&T DIN rail devices from a central power source and, with an ambient temperature rating of 0..60 °C covers the entire working temperature range of the W&T interfaces.

Safety Advisory: HAZARDOUS VOLTAGE

The following advisory must be read and understood before installing the power supply. Non-observance of this advisory may have serious or fatal consequences.

This power supply is to be installed and placed in operation only by an electrical specialist. Before beginning any work on the power supply, make sure the mains supply is completely disconnected.

When installing, make sure no loose wires extend into the housing of the power supply through the ventilation holes.

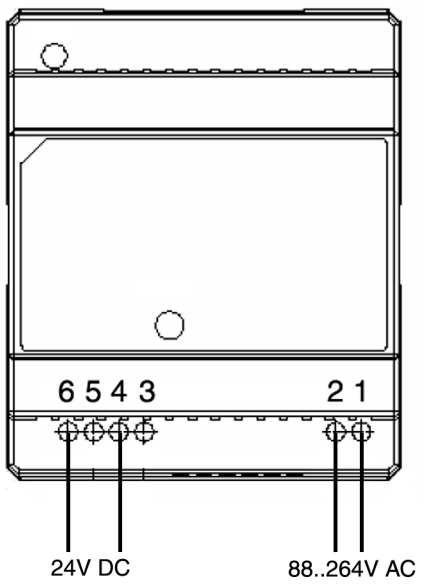
Protection for operating personnel and the equipment is only ensured if the power supply is used as specified. Any use other than described in this Manual will compromise the safety and function of the power supply and any connected systems.

If faults cannot be remedied, take the power supply out of service and guard it against unintentional startup. Tampering with and modifying the power supplies is hazardous and is therefore not permitted.

The operator is responsible for observing local safety regulations.

Connection

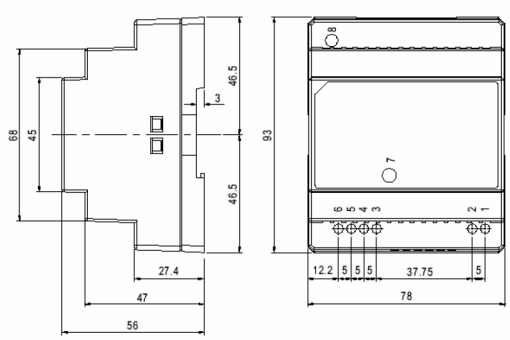
Input and output voltages will be connected to the power supply using screw terminals, which are assigned as follows:



1 - AC (N)
2 - AC (L)
3,4 - +24 V
5, 6 - GND

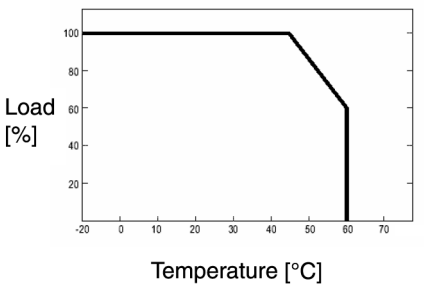
Housing and dimensions

The dimensions of the 11076 DIN rail power supply can be seen in the following drawing:



Derating

As with all switching power supplies, the 11076 DIN rail mount power suypply is subject to a reduction of the available power at elevated temperatures. Up to a temperature of 45°C a rated load of 60 watts is possible, and above this temperature the permnissible power draw is reduced by 2.6% per degree Celsius.



Technical Specifications

Output power:	max. 60W
Efficiency (typ):	84%
Input voltage:	100 .. 240VAC
Frequency:	47 .. 63 Hz
Input current:	0.8A at 230V AC
Inrush:	max. 36A at 230V AC
Leakage current:	<1mA at 230V AC
Output voltage:	24V DC (adjustable 21.6 .. 26.4V)
Tolerance:	±1%
Ripple:	max. 0.15V peak-to-peak
Rated current:	2.5A
Mininum load:	none
Overcurrent protection:	105% .. 160% I_{rated}
Short circuit protected:	Yes
Overvoltage:	27,. .. 32.4V (Shutdown at 115% .. 135% of rated voltage, Reset via „power on“)
Start time:	100ms at rated load and 230V AC
Rise time:	30ms at rated load and 230V AC
Hold time:	100ms at rated load and 230V AC
Cooling:	Convection
Withstand voltage:	In-Out: 3KV AC
Leakage resistance:	In-Out: 100 MOhm @500VDC
Operating temperature:	-20 .. 60°C, power reduction between 45 .. 60°C: 2.6%/°C
Storage temperature:	-40 .. 85°C
Relative humidity:	Operating: 20 .. 90% r.F. Storage: 10 .. 95% r.F. (non-condensing)
Terminals:	2-pole input, 4-pole output with screw terminals
MTBF:	> 216.200 hours (per MIL-HDBK-217F at 25°C)

Weight:	300 g
Dimensions:	93 x 78 x 56 mm
Approvals:	UL, c-UL, TÜV, CB, CE
Safety:	Meets UL 60950-1 / EN60950-1
EMC:	Meets EN 55022 B EN 61000-3-2, EN 61000-3-3 EN 61000-4-2, EN 61000-4-3 EN 61000-4-4, EN 61000-4-5 EN 61000-4-6, EN 61000-4-8 EN 61000-4-11, ENV 50204 EN 61204-3, EN 61000-6-2