

DC Power Supply and DC/DC Transmitter series NG 3001



Features

- Full 2-port isolation
- Output voltage 5...30V DC, stabilized, short circuit protected
- Current limiting with automatic start after short circuit
- Digital LED display for output voltage and current available
- Temperature controlled fan, ball-bearing type
- With power factor correction
- Standard housing for TS35 DIN rail- or wall mounting



NG3001 with LED-Display

Technical data

Power supply

Supply voltage	: see ordering code
Efficient factor	: 85 % (max U _A , max. I _A)
Power-factor	: >0.85 (max U _A , max. I _A)
Operating temperature	: -10 ... 50 °C
Rated voltage	: 500 V = according to VDE 0110 group 2
Test voltage	: 4 kV ~ according to VDE 0551/EN60672
CE-conformity	: EN55022, EN60555-2, IEC61000-4-4/5/11

Output

	NG3001-1-1-X	NG3001-2-1-X
Output current	: 5 A	10 A
Ripple	: < 25 mV	< 50 mV
Short circuit current	: 5.5 A	10.5 A
Output voltage	: 5 ... 30 V DC adjustable by 20-turn poti or external poti	
Load balance	: <9 mV/A	
Display	: 7.6 mm red,	
Accuracy	: ±1 %, ± 1 Digit	

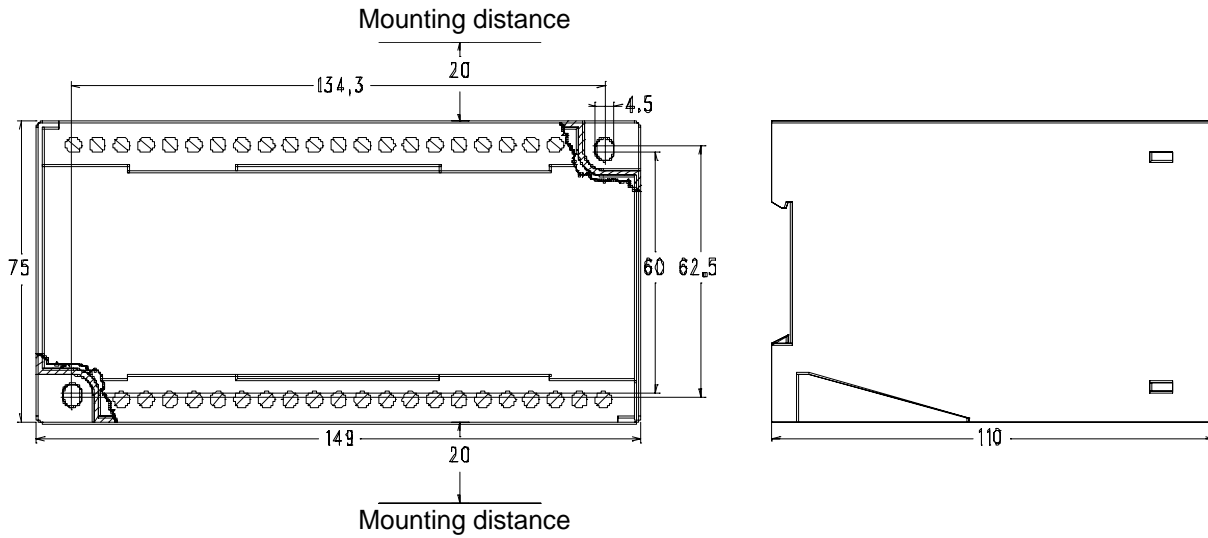
Case

Case	: standard case polycarbonate 8020 UL94V-1
Weight	: approx. 1 kg
Protection	: case IP30, terminals IP20 acc. to German BGV A3
Electrical connection	: screw terminals with pressure plate, max. 4 mm ²

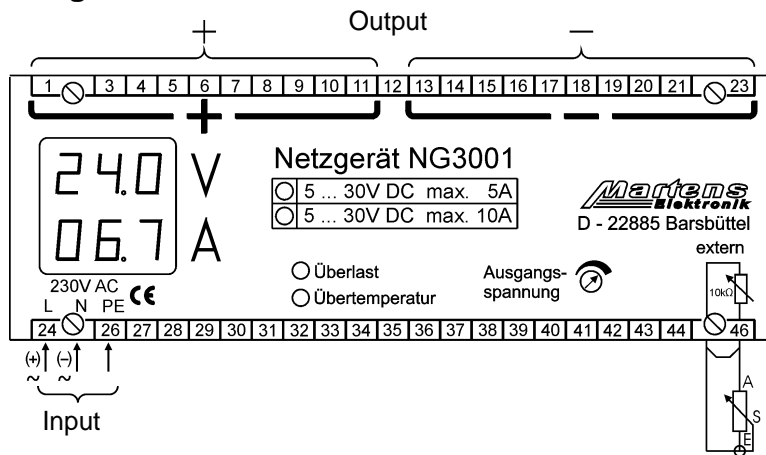
Thermal protection

Thermal protection will be activated if ventilation is interrupted or ambient temperature is too high. In this case power supply will turn off completely and LED signed "Übertemperatur" flashes. The unit will turn on again automatically, after cooled down.

Dimensions



Connection diagram



Poti 10 kΩ for external voltage adjustment.
 (serial connection with internal poti)
 Standard 0 Ω jumper.

Ordering code

NG3001 - 1. - 2. - 3.

1. Output

- 1 5 ... 30 V DC max. 5 A
- 2 5 ... 30 V DC max. 10 A

2. LED-Display for voltage and current

- 0 without display
- 1 with display

3. Input

- 0 230 V AC ±10%
- 7 60 V DC -15/+20%
- 8 80 V DC -15/+20%
- 9 110 V DC -15/+20%
- 10 220 V DC -15/+20%