DATA SHEET

NT 24-2000

for the 24 V DC power supply

Article number 09500165

Internetlink

Function

Switching power supplies convert a destabilised input voltage into a constant output voltage where the mains voltage is first converted to a higher frequency, rectified and then converted to a lower voltage. A constant output voltage and higher efficiency is therefore achieved. Adaptors are stabilised 24 V DC power supplies and meet the requirement for separation between the SELV side and the low-voltage side as per DIN VDE 0100 part 410. They have an overload display and are permanently short-circuit-proof. Adaptors are clocked, non-load and also short-circuit-proof switching power supplies on the primary. They are also protected against overload by the internal voltage control.

Features

Primary voltage: 230 V AC, Secondary voltage: 24 V DC, Rated current NT 24-750 = 750 mA, Suitable for protective low voltage as per SELV conforming to IEC 60364-4-41 (DIN VDE 0100-410), Suitable for capacitive loads, Short-circuit proof, Status and overload indication via LEDs on front panel, 2 mod. width, IP 40 when installed in distribution panel

Mounting

quick fastening to mounting rail, any installation position

Applications

Power supply unit for 24 V DC DIN-rail devices such as e. g. for the Dupline bus system, SI system, etc.

Notes

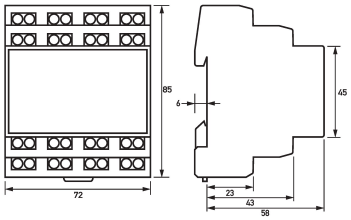
The connection of several power supply units in parallel is perfectly possible in principle. In such cases, however, the total load capacity of the parallel-connected power supply units must be reduced by 10 %. A maximum of only three NT 24-750 may be connected in parallel.

Technical Data

Technical Data	NT 24-2000
Series	NT 24-2000
Operating voltage (AC)	230 V (207 V ... 253 V)
Operating frequency	47 Hz ... 63 Hz
Internal consumption	max. 7.2 W
	Display Operation
Type	LED (green)
	Display Overload
Type	LED (red)
	Load circuit
Rated voltage (DC)	24 V
Tolerance of rated voltage	-5 % ... 5 %
Rated current (DC)	2 A
Rated short-circuit current	0.005 kA
Rated power	max. 48 VA
Rated insulation voltage	4 kV
Rated frequency	47 Hz ... 63 Hz
max. Output O1 Load capacitive	22000 µF
Type overload protection thermal	Load disconnection at temperature limit exception (automatic reactivation after falling below temperature limit)

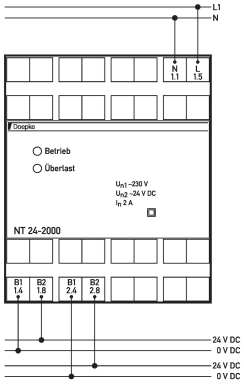
Technical Data	NT 24-2000
Overvoltage class	III
	Screw-type terminal top and bottom
Clamping area	0.4 mm² ... 2.5 mm²
Tightening torque	max. 0.6 Nm
General data description	General data
Operating position	any
Ambient temperature	-10 °C ... 55 °C
Permissible humidity	max. 95 %
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Polycarbonate (PC)
Protection class	IP20
Width	72 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Width (modules)	4
Design requirements/Standards	EN 60950-1, EN 61558-1, EN 50491-2-1, EN 50491-3, EN 50090-2-2, EN 61000-6-3, EN 61000-6-2, EN 61000-3-2, EN 61204-3

Dimensions



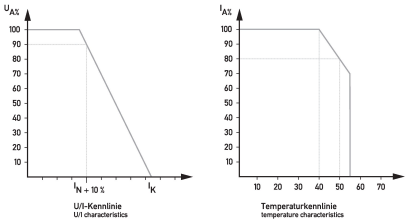
Dimensional drawing Group view

Wiring example



Wiring diagram

Diagrams



Characteristic