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TNC-D2012

TNC-D2012

5 A SWITCHING POWER SUPPLY UNIT, SUPPLYING VOLTAGE TO THE CONTROLLER OR TEXT DISPLAY

Controlled power supply for sensors, actuators, sensor electronics and controller

- High efficiency of > 87 %
- Input and output with overvoltage protection
- Can be attached to a mounting rail, no tools required
- Output voltage adjustable up to 28 V DC
- Overload protection, up to 1.5 × nominal current
- Very high efficiency, hence very low heat build-up
- LED for secondary voltage indication

Application

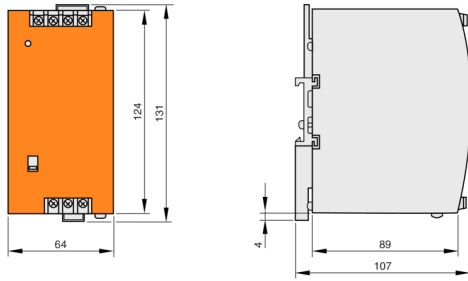


Application

- Switching power supply unit TNC-D2012 (24 V DC; 5 A)
- Power supply for AS-i controllers and for operating and display units
- Very high efficiency of 90 %
- Low ripple, < 50 mV
- High reliability

TECHNICAL INFORMATION

AS-i switching power supply unit TNC-D2012



Description	TNC-D2012
Output current	5 A
Nominal voltage, primary	115/230 V AC
Input voltage range	85 – 132 V AC/176 – 264 V AC/210 – 375 V DC
Nominal frequency	47 – 63 Hz
Efficiency	90 %
Casing	Aluminium
Protection level	IP 20
IEC protection class	I (protective earth)
Connection	Terminals 1.5 – 6 mm ²
Temperature range	-10 to +60 °C
Derating	3 W/K (60 – 70 °C)
Output voltage	24 V DC (± 5 %/-1 %) to SELV/PELV
Power ON delay time	< 20 ms
Residual ripple	< 50 mV
Mains buffering time	> 37 ms
Short-circuit protection / overload protection	Yes (to IEC 61140)
EMC	EN 50081-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4
MTTF	241 years
Overvoltage protection	29 V
LEDs	Green: output voltage

Standard description (characteristics)

Switching power supply unit TNC-D2012, supplying voltage to the controller or text display.

- Nominal voltage: 115/230 AC V
- Output voltage: 24 V DC (+5 %/-1 %), SELV/PELV
- Output current: 5 A
- Nominal frequency: 47 – 63 Hz
- Efficiency: 90 %
- Connection: Terminals, 1.5 to 6 mm²
- Casing materials: Aluminium
- Ambient temperature: -10 to +60 C°
- Protection level: IP 20
- Status display: LED green, output voltage
- Make: TROX GmbH or equivalent
- Type: TNC-D2012

TNC – D1030



1 Switching power supply

unit

TNC-D1020 Output current 1.3 A

TNC-D2011 Output current 2.5 A

TNC-D2012 Output current 5 A

TNC-D2013 Output current 10 A