

STEP-PS-100-240AC/24DC/1.5

Order No.: 2938947



DIN rail power supply unit 24 V DC/1,5 A, primary switched-mode, low-profile design

| Commercial data | |
|--------------------------|--------------------|
| EAN | 4017918892401 |
| Pack | 1 Pcs. |
| Customs tariff | 85044081 |
| Weight/Piece | 0.271 KG |
| Catalog page information | Page 509 (IF-2007) |

Product notes

WEEE/RoHS-compliant since:
10/28/2006



Technical data

| Input data | |
|------------------------|-----------------------|
| Nominal input voltage | 100 V AC ... 240 V AC |
| AC input voltage range | 85 V AC ... 264 V AC |
| AC frequency range | 45 Hz ... 65 Hz |
| DC frequency range | 0 Hz |

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|---|---|
| Current consumption | Approx. 0.8 A (120 V AC) |
| | 0.4 A (230 V AC) |
| Nominal power consumption | 36 W |
| Inrush surge current | < 25 A (typical) |
| Power failure bypass | > 20 ms (120 V AC) |
| | > 100 ms (230 V AC) |
| Input fuse | 1.25 A (Normal blow, internal) |
| Recommended backup fuse | 16 A (Characteristic C) |
| Output data | |
| Nominal output voltage | 24 V DC \pm 1% |
| Output current | 1.5 A (up to 55°C) |
| | Approx. 4.5 A (maximum output current I_{max}) |
| Connection in parallel | Yes, for redundancy and increased capacity |
| Connection in series | No |
| Control deviation | < 1 % (change in load, static 10% ... 90%) |
| | < 3 % (change in load, dynamic 10% ... 90%) |
| | < 0.1 % (change in input voltage \pm 10%) |
| Residual ripple | < 40 mVPP |
| Peak switching voltages nominal load | < 50 mVPP (20 MHz) |
| Maximum power dissipation idling | 2 W |
| Power loss nominal load max. | 8 W |
| General data | |
| Width | 71 mm |
| Height | 90 mm |
| Depth | 55 mm |
| Weight | 0.2 kg |
| Efficiency | > 80 % |
| Insulation voltage input/output | 3 kV (routine test) |
| | 4 kV (type test) |
| Degree of protection | IP20 |
| Class of protection | II (in an enclosed control cabinet) |
| MTBF | > 500 000 h in acc. with IEC 61709 (SN 29500) |
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

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| Max. permissible relative humidity (operation) | 95 % (at 25°C, no condensation) |
| Mounting position | Horizontal DIN rail NS 35, EN 60715 |
| Assembly instructions | Can be aligned: Horizontal 0 cm, vertical 3 cm |
| Electromagnetic compatibility | Conformance with EMC directive 89/336/EEC |
| Standard – Safety transformers for switched-mode power supply units | EN 61558-2-17 |
| Standard - Electrical safety | EN 60950/VDE 0805 (SELV) |
| | EN 61558-2-17 |
| | EN 50178 (PELV) |
| Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV) |
| Standard - Safe isolation | DIN VDE 0100-410 |
| | DIN VDE 0106-1010 |
| Standard – Limitation of mains harmonic currents | EN 61000-3-2 |
| UL approvals | UL/C-UL listed UL 508 |
| | UL/C-UL Recognized UL 60950 |
| Surge voltage category | III |

Connection data, input

| | |
|--|---------------------|
| Type of connection | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 14 |
| Stripping length | 6.5 mm |
| Screw thread | M3 |

Connection data, output

| | |
|--|---------------------|
| Type of connection | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 14 |

| | |
|------------------|--------|
| Stripping length | 6.5 mm |
|------------------|--------|

Signaling

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|----------------|-----------|
| Output name | POWER |
| Status display | LED green |
| Output name | OVERLOAD |
| Status display | LED red |

Certificates / Approvals



Certification

CUL, CUL Listed, GOST, UL, UL Listed

Drawings

Block diagram

