

Datasheet

RS PRO Industrial DIN Rail Power Supply

Stock No: 192-7582



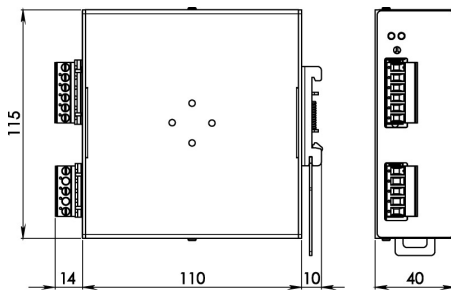
Technical Specifications:

| Input | |
|--------------------------------|--|
| Number of phases | 2 |
| Rated voltage U_N | AC 200–500 V |
| Operation voltage range | AC 187–550 V / DC 270–725 V |
| Line frequency | 47–63 Hz |
| Rated current I_N | 1.4 A @ AC 200 V / 0.7 A @ AC 500 V |
| Inrush current | <20 A @ AC 230 V / <40 A @ AC 500 V |
| External fuse | Mini-circuit breaker: D 6 A, C 6 A / safety fuse: T 4 A (required) |
| Power factor correction P.F.C. | >0.55 |

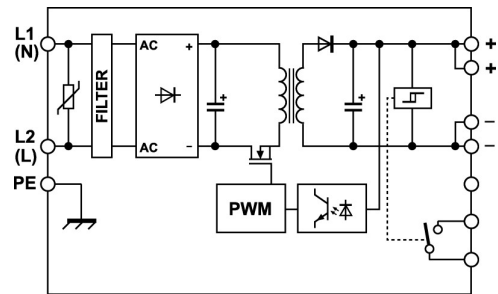
Features & Benefits:

- 1 piece
- Power supply
- Compact Universal, regulated, 120 W
- Primary switched power supplies, PFC, 1/2-phase
- Input: wide-range input AC 187–550 V, DC 270–725 V
- Output: 24 V, adjustable

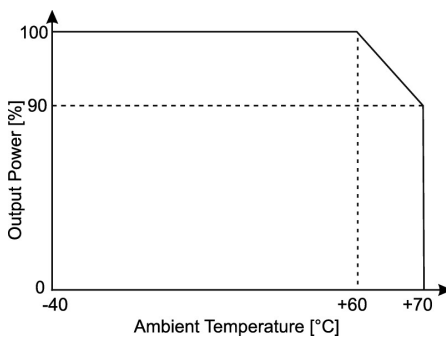
Dimensions



PIN assignment

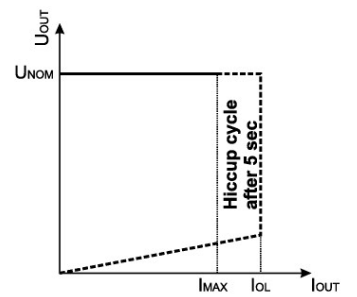


Derating

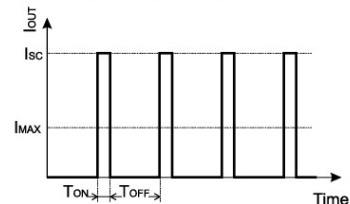


Short circuit characteristics

Hiccup limitation output characteristic



Short circuit conditions



Technical Data

| Input | |
|--------------------------------|--|
| Number of phases | 2 |
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| Line frequency | 47–63 Hz |
| Rated current I_N | 1.4 A @ AC 200 V / 0.7 A @ AC 500 V |
| Inrush current | <20 A @ AC 230 V / <40 A @ AC 500 V |
| External fuse | Mini-circuit breaker: D 6 A, C 6 A / safety fuse: T 4 A (required) |
| Power factor correction P.F.C. | >0.55 |

| Output | |
|---|---|
| Rated voltage U_N | DC24V |
| Rated current I_N | 5 A |
| Max. output current | >7.5 A, >30 s |
| Short-circuit current | >14 A, 400 ms |
| Heat dissipation | <18 W |
| Setting range $U_{out\ min.}/U_{out\ max.}$ | 23-27,5 V |
| Load regulation | <1 % |
| Rise time | 9 ms (5–95 %) @ 400 V |
| Ripple and Noise | <100 mV pp |
| Hold up time | >20 ms @ AC 120 V / >80 ms @ AC 230 V |
| Status indication DC ON LED green | ≥ 21.6 V |
| Status indication DC LOW LED red | $I_{out} > 110 \% I_N$ |
| Parallel / redundant mode | yes/via external decoupling diode e.g. 722987 |
| Efficiency | >86 % |
| Over voltage protection | >DC 33 V ($U_A=24$ V) |
| Rated over load protection | yes |
| Short circuit | Hiccup Mode |

Technical Data

| General | |
|------------------------------------|--|
| Insulation voltage input / output | DC 4.2 kV |
| Insulation voltage input / ground | DC 2.2 kV |
| Insulation voltage output / ground | DC 750 V |
| Derating | >60 °C: -1.2 W/°C |
| Operation temperature range | -20 °C ... +70 °C (overtemperature protection) |
| Storage temperature range | -40°C...80°C |
| Relative air humidity | 20 – 90 % RH, not condensing |
| Cooling | Air convection, 50 mm distance top/bottom, 20 mm side |
| Housing material | Aluminum |
| Mounting | DIN rail mountable TS35 (EN 60715) |
| Application height | 2000 m |
| Installation position | vertical |
| Shock resistance | 30 g 6 ms, 20 g 11 ms, 3 shocks/direction, 18 shocks in total, IEC60068-2-27: 2008 |
| Vibration resistance | 5 – 17.8 Hz: ±1.6 mm, 17.8 – 500 Hz: 2 g 2 hours/axes X,Y,Z, IEC 60068-2-6: 2007 |
| Protection class | IP20 (IEC 529 / EN 60529) |
| Protection class | I |
| Over voltage category | III |
| Degree of pollution | 2 |
| Weight | 0,5 kg/piece |
| Connection type | Screw terminal |
| | 0.20 mm ² – 2.5 mm ² |
| | AWG 24 – AWG 12 |
| | plug-in |

Technical Data

| Dimensions (w × h × d) | |
|------------------------|---|
| Certifications | cULus (E249179) |
| Standards | IEC 950 |
| | EN 60950 |
| | UL 60950 |
| | EN 61000-6-2 |
| | EN 61000-6-4 |
| | EN 61000-4-2/3/4/5/6/11 |
| MTBF | >500000 h: SN29500 / >150000 h: MIL HDBK 217F |
| PU | 1 piece |