

DIN rail power supply unit DRS3-24



- Single-phase input: 85 VAC to 264 VAC
- Output: 24 VDC to 51 °C
- Output power of 72 watts (3 A)
- Temperature range from -25 °C to +71 °C
- Robust plastic housing with DIN rail mounting

<https://www.wachendorff-prozesstechnik.de/en/DRS3-24>

Description

The DRS3-24 power supply unit is a high-quality switching power supply unit for DIN rail mounting with an excellent price/performance ratio. It impresses with its compact and intelligent design as well as its robust plastic housing. The output voltage is easy and simple to adjust (22.5 VDC to 28.5 VDC) and is highly stable even with temperature fluctuations and load changes.

In addition to short-circuit protection, overload and overvoltage protection at the output ensure a high level of device/mains safety.

Product details

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| Input voltage range: | 100 VAC to 240 VAC |
| Nominal input voltage: | 85 VAC to 264 VAC or 120 to 375 VDC |
| Inrush current: | (115 /230 VAC): 30/60 A |
| Input current | (115 /230 VAC): 1450 mA / 750 mA |
| Internal fuse: | T3.15 A / 250 VAC |
| Output voltage: | Factory setting +/-1 %: 24 VDC |
| Output voltage adjustment range: | 22.5 VDC to 28.5 VDC |
| Switch-on delay: | after applying the supply: 2 seconds (max.) |
| Connection: | Screw terminals: AWG26-12 with 0.2 to 2.5 mm ² cross-section Spring terminals: AWG24-14 with 0.2 to 2 mm ² cross-section |
| Continuous current: | at 24 VDC < 25 °C (In): 3 A (permanent) at 28.5 VDC < 25 °C (In): 2.7 A |
| Hold-up time: | at 115/230 VAC and 25 °C : typically 15/50 milliseconds |
| Ripple: | 100 mVpp |
| efficiency: | 89 % (230 VAC) |
| Maximum power loss: | 10.5 watts at 25 °C (230 VAC) |
| Overload protection: | min. 140 % |
| Short-circuit protection: | HICCUP mode |

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| Approvals and standards | UL 508 Listed / UL 60950-1 Recognized TÜV EN 60950-1 EN 61000-6-3, EN 55022 Class B EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024 EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3 EN 61000-4-6 Level 3, EN 61000-4-8 Level 4 EN 61000-4-11 ENV 50204 Level 2, EN 61204-3 |
| Overvoltage protection: | Auto recovery with 28.8 to 32.4 VDC |
| Reliability: | MTBF 580,000 hours |
| Protection class: | IP20 |
| Housing: | Sturdy plastic housing. Mounting on the DIN rail. |
| Dimensions (WxHxD): | 40.5 mm x 90 mm x 100 mm |
| Relative humidity: | max. 95 % rH at 25 °C, non-condensing. |
| Ambient temperature: | Operation: -25 °C to +71 °C (> 51 °C leads to a reduction of the operating values by 2.5 % / °C) Storage: -40 °C to +85 °C. |
| Weight: | approx. 250 g |
| Scope of delivery: | Device, operating instructions. |
| Manufacturer: | Chinfa Electronics Ind. Co, Ltd. |

Products Order no.

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| DRS3-24 | Power supply unit for DIN rail, 85 to 264 VAC, 24 VDC 3 A, spring terminal |
| DRS3-24A | Power supply unit for DIN rail, 85 to 264 VAC, 24 VDC 3 A, screw terminal |



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