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

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 mm² cross-section Spring terminals: AWG24-14 with 0.2 to 2 mm² 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
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.

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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