

Anixter Level 2 for Industrial Network Environments

Power Supplies: 24V 20 A Single Phase



| Anixter Item # | Product Description |
|----------------------|--|
| L2-24V-20A-1P | DIN Rail Mount Power Supply, Single Phase, 24 VDC / 20 A |

| Input Circuit | | |
|----------------------------------|-------------|------------------------------|
| Rated input voltage U | | 115-230 V AC |
| Input voltage range | | 90-264 V AC, 120-375 V DC |
| Frequency range AC | | 47-63 Hz |
| Typical input current | at 115 V AC | 4.9 A |
| | at 230 V AC | 2.5 a |
| Typical power consumption | | 270 W |

| | | |
|---|----------------------------|--|
| Inrush current limiting | at 115 V AC at 230 V AC | 25 A (max. 5 ms) 50 A (max. 5 ms) |
| Internal input fuse | | 10 A slow-acting / 250 VAC |
| Power factor correction (PFC) | | yes, active 115 V AC: 0.99 230 V AC: 0.97 |
| Indication of Operational States: | | |
| Output voltage | Green LED Red LED | OUTPUT OK: V: output voltage OK OUTPUT LOW: V: output voltage too low |
| Output Circuit | | |
| Rated output voltage | | 24 V DC |
| Tolerance of the output voltage | | 0...+1 % |
| Adjustment range of the output voltage | | 22.5-28.5 V DC |
| Rated output power | | 480 W |
| Rated output current I | | 20 A |
| Signaling contact for output voltage OK | | solid-state (max. 60 V DC, 0.3 A) |
| Minimum fuse rating to achieve short-circuit protection | | M 60 V DC, 0.3 A fast-acting |
| Output circuit - No-load, overload and short-circuit behavior: | | |
| Power dissipation | | typ. 35 W |
| Efficiency | | typ. 89% |
| Duty time | | 100% |
| Dimensions (W x H x D) | | 175 x 123.6 x |
| | | 123.6 mm |
| | | [6.89 x 4.87 x 4.87 in] |
| Weight | | 1.850 kg (4.19 lb) |

| | | |
|--|--------------------------------------|---|
| Material of housing | | Metal |
| Mounting | | DIN rail (IEC/EN 60715), snap-on mounting without any tool |
| Mounting position | | horizontal |
| Degree of protection housing / terminals | | IP20 / IP20 |
| Electrical connection - input circuit / output circuit: | | |
| Wire size fine-strand with wire end ferrule | fine-strand with wire end ferrule | 0.2-4 mm ² (24-11 AWG) |
| | fine-strand without wire end ferrule | 0.2-6 mm ² (24-10 AWG) |
| | rigid | |
| Stripping length | | 8 mm (0.31 in) |
| Environmental Data | | |
| Ambient temperature range | operation | -40...+70 °C |
| | rated load | -40...+55 °C |
| | storage | -40...+85 °C |
| Damp heat (cyclic) | (IEC/EN 60068-2-30) | 95 % without condensation |
| Shock (half-sine) | (IEC/EN 60068-2-27) | 15 G, 11 ms, 3 axes, 6 faces, 3 times for each face |
| Vibration (sinusoidal) | (IEC/EN 60068-2-6) | 10-500 Hz, 2 G, along X, Y, Z each axis, 60 min. for each axis |
| Standards | | |
| Product standard | | EN 61204-3 |
| Low Voltage Directive | | 2006/95/EC |
| EMC directive | | 2004/108/EC |
| RoHS directive | | 2002/95/EC |
| Electrical safety | | EN 60950-1, UL 60950-1, UL 508, EN 61558-1, EN 61558-2-17; EN 60204-1 |

| Electromagnetic Compatibility | | |
|--|------------------------|---|
| Interference immunity to: | | IEC/EN 61000-6-2 |
| Electrostatic discharge | IEC/EN 61000-4-2 | Level 4 (air discharge 15 kV / contact discharge 8 kV) |
| Radiated, radio-frequency, electromagnetic field IEC/EN | IEC/EN 61000-4-3 | Level 3 (10 V/m) |
| Electrical fast transient/burst | IEC/EN 61000-4-4 | Level 4 (4 kV / 5 kHz) |
| Surge | IEC/EN 61000-4-5 | L-L Level 3 (2 kV) / L-PE Level 4 (4 kV) |
| Conducted disturbances, induced by radio-frequency fields | IEC/EN 61000-4-6 | Level 3 (10 Vrms) |
| Power frequency magnetic fields | IEC/EN 61000-4-6 | Level 4 (30 A/m) |
| Voltage dips, short interruptions and voltage variations | IEC/EN 61000-4-6 | dip: >95 % 10 ms / >30 % 500 ms interruptions: >95 % 5000 ms |
| Interference emission | | IEC/EN 61000-6-3 |
| High-frequency radiated | IEC/CISPR 22, EN 55022 | Class B |
| IEC/CISPR 22, EN 55022 | IEC/CISPR 22, EN 55022 | Class B |
| Limits for harmonic current emissions | | Class D |

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