

Optimum - 100 - Industrial power supply unit

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data sheet



- Primary switched-mode power supply
- Prepared for protection class II devices and systems
- Self-cooling through natural convection with horizontal installation position
- Stepped profile, ideal for installation distributors or system distributors
- Parallel switching, serial switching options
- Galvanically isolated output voltage (SELV)



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|------------------------|------------------|
| Type | Optimum - 100 |
| Item number | 14.21.0024 |
| Output voltage/current | 24 V DC / 1.25 A |

Technical specification - Optimum - 100

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|---------------------------------------|--|
| Input: | |
| Input voltage AC | 90 ... 264 V |
| Frequency | 50 ... 60 Hz |
| Input current I _e | < 0.6 A (230 V AC) < 0.8 A (115 V AC) |
| Leakage current | 0.25 mA at 240 V AC |
| Inrush current | 25 A at 115 V 50 A at 230 V |
| Power failure bridging | > 60 ms (230 V AC) > 20 ms (115 V AC) |
| Output: | |
| Output voltage U _a Nominal | 24 V DC (SELV) |
| Output voltage range | 24 ... 28 V DC adjustable |
| Output current I _a | 1.25 A |
| Presetting | 24 V DC |
| Behaviour in case of overload | Automatic reset |
| Operating display | LED green (U _a) |
| Efficiency/power loss: | |
| Efficiency | 87% |
| Power loss P _V | 5 W |
| Protection: | |
| Internal fuse | 3.15 A |
| Recommended back-up fuse | Circuit breaker 4 A, 20 A, characteristic B or C |

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| Ambient conditions: | |
| Ambient temperature | -25 ... 70 °C |
| Derating | - 2.67% / °C (> 55 °C) |
| Degree of soiling | 2 (in accordance with EN 60721) |
| Security and protection: | |
| Housing | Plastic |
| Protection class | II without connection PE |
| Protection type | IP20 |
| Parallel switching option | yes |
| Serial switching option | yes |
| Mean failure distance | 2500000 h at 25 °C, full load 1000000 h at 55 °C, 80% load |
| Connection and attachment: | |
| Connection technology | Screw connection |
| Cross sections | Input / output: 0.5 ... 1.5 mm ² , (AWG 20 ... AWG 16) without ferrule 0.5 ... 1 mm ² , (AWG 20 ... AWG 18) with wire end ferrule |
| Fixing type | Rail mounting (EN 60715) |
| Dimensions and weight: | |
| Dimensions (mm) W x H x D | 36 x 91 x 55.6 |
| Weight | 170 g |

Figure: All rights reserved by Schneider Electric