

ABL8RPS24030

regulated switch mode power supply - 1 or 2-
phase - 200..500 V - 24 V - 3 A



Main

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|-----------------------------|---|
| Range of product | Phaseo Universal |
| Product or component type | Power supply |
| Power supply type | Regulated switch mode |
| Rated power in W | 72 W |
| Input voltage | 100...120 V AC single phase N-L1 200...500 V AC phase to phase L1-L2 |
| PFC filter | With IEC 61000-3-2 |
| Output voltage | 24 V DC |
| Power supply output current | 3 A |
| Output protection type | Against overload manual or automatic reset Against overvoltage 30...32 V, manual reset Against short-circuits manual or automatic reset Against undervoltage tripping if $U < 21.6$ V Thermal automatic reset |

Complementary

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|-------------------------------------|---|
| Input voltage limits | 85...132 V 170...550 V |
| Network frequency limits | 47...63 Hz |
| Inrush current | ≤ 30 A 2 ms |
| Cos phi | 0,51 240 V 0,59 120 V |
| Efficiency | 87...100 % |
| Power dissipation in W | 7,8 W |
| Output voltage limits | 24...28.8 V adjustable |
| Line and load regulation | 1...3 % |
| Residual ripple | ≤ 200 mV |
| Holding time | ≥ 120 ms 400 V ≥ 20 ms 100 V ≥ 40 ms 240 V |
| Permissible temporary current boost | 1.5 x I_n for 4 s |
| Connections - terminals | Screw type terminals input connection 3 x 0.5...3 x 4 mm ² 22...12 Screw type terminals input ground connection 1 x 0.5...1 x 4 mm ² 22...12 Screw type terminals output connection 4 x 0.5...4 x 4 mm ² 22...12 Screw type terminals output ground connection 1 x 0.5...1 x 4 mm ² 22...12 |
| Marking | CE |
| Mounting support | 35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail |
| Operating position | Vertical |
| Output coupling | Parallel Series |
| Name of test | Conducted emissions on the power line EN 55022 Class B GL level Electrostatic discharges EN/IEC 61000-4-2 Harmonic current emission EN/IEC61000-3-2 Induced electromagnetic field EN/IEC 61000-4-6 level 3 Magnetic field EN 61000-4-8 Primary outage IEC 61000-4-11 Radiated electromagnetic field EN/IEC 61000-4-3 level 3 Radiated emissions EN 55022 Class B GL level Rapid transient IEC 61000-4-4 Surge EN/IEC 61000-4-5 |

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| Status LED | 1 LED green and red output voltage 1 LED green, red and orange output current |
| Product weight | 0,3 kg |

Environment

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| Product certifications | C-Tick UL CCSAus |
| Environmental characteristic | EMC EN 61000-6-1 EMC EN/IEC 61000-6-2 EMC EN 61000-6-3 EMC EN/IEC 61000-6-4 EMC EN/IEC 61204-3 Safety EN/IEC 60950-1 Safety EN/IEC 61204-3 Safety SELV |
| IP degree of protection | IP20 EN/IEC 60529 |
| Ambient air temperature for operation | -25...60 °C |
| Ambient air temperature for storage | -40...70 °C |
| Relative humidity | 0...90 % during operation 0...95 % in storage |
| Class of protection against electric shock | Class I VDE 0106-1 |
| Vibration resistance | 2 gn 11,9...150 Hz EN/IEC 61131-2 3.5 mm 3...11,9 Hz EN/IEC 61131-2 |
| Dielectric strength | 500 V between output and ground 3500 V between input and ground 4000 V between input and output |
| RoHS EUR status | Compliant |
| RoHS EUR conformity date | 0501 |