

ABL8RPS24030

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



Main

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

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

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