

## Product data sheet

### Characteristics

# ABL8RPS24050

## Regulated Switch Power Supply, Phaseo ABL7 ABL8, 1 or 2 phase, 100..500V, 24V, 5A



### Main

Range of product	Modicon Power Supply
Product or component type	Power supply
Power supply type	Regulated switch mode
Nominal input voltage	100...120 V AC single phase, terminal(s): N-L1 200...500 V AC phase to phase, terminal(s): L1-L2
Rated power in W	120 W
Output voltage	24 V DC
Power supply output current	5 A
Permissible temporary current boost	1.5 x I <sub>n</sub> (for 4 s)
Anti-harmonic filter	Low frequency harmonic currents

### Complementary

Input voltage limits	85...132 V AC 170...550 V AC
Inrush current	30 A
Power factor	0.51 at 240 V AC 0.59 at 120 V AC
Efficiency	87 %
Output voltage adjustment	24...28.8 V adjustable
Power dissipation in W	15.5 W
Provided equipment	Power factor correction filter conforming to IEC 61000-3-2
Output protection type	Against overload, protection technology: manual or automatic reset Against overvoltage, protection technology: 30...32 V, manual reset Against short-circuits, protection technology: manual or automatic reset Against undervoltage, protection technology: tripping if U < 21.6 V Thermal, protection technology: automatic reset
Connections - terminals	Removable screw terminal block: 2 x 2.5 mm <sup>2</sup> , for diagnostic relay Screw type terminals: 3 x 0.5...3 x 4 mm <sup>2</sup> , (AWG 22...AWG 12) for input connection Screw type terminals: 1 x 0.5...1 x 4 mm <sup>2</sup> , (AWG 22...AWG 12) for input ground connection Screw type terminals: 4 x 0.5...4 x 4 mm <sup>2</sup> , (AWG 22...AWG 12) for output connection Screw type terminals: 1 x 0.5...1 x 4 mm <sup>2</sup> , (AWG 22...AWG 12) for output ground connection
Status LED	1 LED (green and red) output voltage 1 LED (green, red and orange) output current
Depth	125 mm
Height	143 mm
Width	56 mm
Net weight	0.7 kg
Output coupling	Parallel Series
Marking	CE
Mounting support	35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Operating position	Vertical
Supply	SELV conforming to IEC 60950-1 SELV conforming to IEC 60204-1 SELV conforming to IEC 60364-4-41
Dielectric strength	3500 V with between input and ground 4000 V with between input and output 500 V with between output and ground

## Environment

Standards	CSA C22.2 No 60950-1 UL 508 EN/IEC 62368-1
Product certifications	CCSAus[RETURN]EAC[RETURN]KC[RETURN]RCM[RETURN]JUL
Environmental characteristic	EMC conforming to IEC 61000-6-1 EMC conforming to IEC 61000-6-3 EMC conforming to EN 55024 EMC conforming to IEC 61000-6-4 EMC conforming to EN/IEC 61204-3 Safety conforming to IEC 60950-1 Safety conforming to EN/IEC 61204-3
Operating altitude	2000 m
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	50...60 °C with derating factor mounting position A < 2000 m -25...50 °C without derating mounting position A < 2000 m

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.800 cm
Package 1 Width	14.500 cm
Package 1 Length	16.500 cm
Package 1 Weight	906.000 g
Unit Type of Package 2	P06
Number of Units in Package 2	105
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	109.600 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
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