

## Product data sheet

### Characteristics

# ABL8RPM24200

Regulated Switch Power Supply, Phaseo ABL7  
 ABL8, 1 or 2 phase, 100..240V, 24V, 20A



### 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...240 V AC phase to phase, terminal(s): L1-L2
Rated power in W	480 W
Output voltage	24 V DC
Power supply output current	20 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...264 V AC
Inrush current	30 A
Power factor	0.68 at 240 V AC 0.69 at 120 V AC
Efficiency	88 %
Output voltage adjustment	24...28.8 V adjustable
Power dissipation in W	57.6 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
Status LED	1 LED (green and red) output voltage 1 LED (green, red and orange) output current
Depth	145 mm
Height	125 mm
Width	146 mm
Net weight	1.6 kg
Output coupling	Series Parallel
Marking	CE
Mounting support	35 x 7.5 mm symmetrical DIN rail 35 x 15 mm symmetrical DIN rail
Operating position	Vertical

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Supply	SELV conforming to IEC 60950-1 SELV conforming to IEC 60204-1 SELV conforming to IEC 60364-4-41
Dielectric strength	2500 V with between input and ground 3000 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 IP10
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	20.000 cm
Package 1 Width	18.500 cm
Package 1 Length	19.500 cm
Package 1 Weight	2.811 kg
Unit Type of Package 2	P06
Number of Units in Package 2	36
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	114.956 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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