Product data sheet
Characteristics

ABL8RPS24100
Regulated switch power supply, modicon power supply, 1 or 2 phase, 100 to 500V, 24V, 10A



Main

Range of product	Modicon Power Supply
Product or component type	Power supply
Power supply type	Regulated switch mode
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	240 W
Output voltage	24 V DC
Power supply output current	10 A
Permissible temporary current boost	1.5 x In (for 4 s)
Anti-harmonic filter	Low frequency harmonic currents

Complementary

Input voltage limits	170...550 V AC 85...132 V AC
Inrush current	30 A
Power factor	0.68 at 240 V AC 0.69 at 120 V AC
Efficiency	87 %
Output voltage limits	24...28.8 V adjustable
Power dissipation in W	31 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 mm², for diagnostic relay Screw type terminals: 3 x 0.5...3 x 4 mm², (22 AWG...12 AWG) for input connection Screw type terminals: 1 x 0.5...1 x 4 mm², (22 AWG...12 AWG) for input ground connection Screw type terminals: 4 x 0.5...4 x 4 mm², (22 AWG...12 AWG) for output connection Screw type terminals: 1 x 0.5...1 x 4 mm², (22 AWG...12 AWG) for output ground 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	86 Mm
Net weight	1 Kg
Output coupling	Parallel Series
Marking	CE

Mounting support	35 x 7.5 mm symmetrical DIN rail 35 x 15 mm symmetrical DIN rail
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	UL 508 CSA C22.2 No 60950-1 EN/IEC 62368-1
Product certifications	CCSAus[RETURN]EAC[RETURN]KC[RETURN]RCM[RETURN]UL
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	11.000 Cm
Package 1 Width	16.700 Cm
Package 1 Length	18.200 Cm
Package 1 Weight	1.645 Kg
Unit Type of Package 2	S06
Number of Units in Package 2	60
Package 2 Height	75.000 Cm
Package 2 Width	60.000 Cm
Package 2 Length	80.000 Cm
Package 2 Weight	112.420 Kg

Offer Sustainability

Recyclability potential, in %	40
Total lifecycle Carbon footprint	467 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	44.38414050662544
Carbon footprint of the manufacturing phase [A1 to A3]	44 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.8649782455656639
Carbon footprint of the distribution phase [A4]	0.9 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.4884211864177958
Carbon footprint of the installation phase [A5]	0.5 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	418.41595517874333
Carbon footprint of the use phase [B2, B3, B4, B6]	418 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	3.0685703053440747
Carbon footprint of the end-of-life phase [C1 to C4]	3 kg CO2 eq.
Total lifecycle Carbon footprint	467
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
SCIP Number	974297e5-68e4-4a61-9a40-1443e8973a62

REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commerc. announced