

Product data sheet

Specifications



single phase power supply, 100 to 240V AC input, 24V DC output, 240W, Din-rail, IP20

ABLS1A24100E

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon ABL2
Product or Component Type	Power supply
Power supply type	Regulated switch mode
Rated power in W	240 W
Main Input Voltage	100...240 V AC single phase 140...340 V DC
Output voltage	24 V DC
Power supply output current	10 A
Operating position	Vertical
Vibration resistance	2 gn (f= 10...500 Hz) conforming to IEC 60068-2-6
Name of test	Radiated electromagnetic field conforming to EN 61000-4-3 level 3A Electrostatic discharges conforming to EN 61000-4-2 level 3B Electrical fast transients/bursts conforming to EN 61000-4-4 level 3B Surge conforming to EN 61000-4-5 level 3B Conducted conforming to EN 61000-4-6 level 3A Emission conforming to EN 55032 conforming to EN 61000-3-2

Complementary

Input voltage limits	90...264 V AC 127...370 V DC
Network Frequency	47...63 Hz
Inrush current	20 A at 115 V AC 35 A at 230 V AC
Cos phi	0.9...0.98
Efficiency	88 %
Power dissipation in W	25 W
Current consumption	1.18 A at 240 V 2.91 A at 100 V
Input protection type	Integrated fuse (not interchangeable)
Output voltage limits	21.6...27.6 V
Line and load regulation	+/- 1 %
Holding time	>= 16 ms at 115 V
Output protection type	Against overload, protection technology: 1.1...1.3 x In overload protection Against overvoltage, protection technology: tripping if U between 29...33 V Against short-circuits, protection technology: automatic reset Thermal, protection technology: auto reset

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

Connections - terminals	For ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 12 For input connection: screw type terminals, connection capacity: 2 x 4 mm² AWG 12 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 12
Marking	CE UL
Operating altitude	6561.68 ft (2000 m) 5000 m
Overvoltage category	II
Meantime between failure [MTBF]	100000 h at 104 °F (40 °C)
Status LED	1 LED (Green) output voltage
Width	2.4 in (60 mm)
Height	4.9 in (125 mm)
Depth	4.4 in (113 mm)
Product Weight	2.061 lb(US) (0.935 kg)

Environment

Product Certifications	CE RoHS RoHS (china) UKCA UL 508 REACH
Environmental characteristic	Safety conforming to EN 62368-1 EMC conforming to BS EN/EN 61000-4-2/3/4/5/6/8/11 EMC conforming to EN 55032 EMC conforming to EN 61000-3-2
IP degree of protection	IP20 conforming to EN 62368-1
Ambient air temperature for operation	68...122 °F (20...50 °C) (without derating) 122...158 °F (50...70 °C) (with derating factor)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative humidity	10...95 %
Overvoltage category	Class I conforming to EN 62368-1
Pollution degree	2
Dielectric strength	2000 V between input and ground 3000 V between input and output 500 V between output and ground

Ordering and shipping details

Category	US1CP1222525
Discount Schedule	CP12
GTIN	3606487460466
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.661 in (9.300 cm)

Package 1 Width	5.472 in (13.900 cm)
Package 1 Length	7.047 in (17.900 cm)
Package weight(Lbs)	34.991 oz (992.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	27.143 lb(US) (12.312 kg)
Unit Type of Package 3	P12
Number of Units in Package 3	288
Package 3 Height	41.339 in (105.000 cm)
Package 3 Width	31.496 in (80.000 cm)
Package 3 Length	47.244 in (120.000 cm)
Package 3 Weight	680.541 lb(US) (308.688 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	1 379 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 369 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	52
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Image of product / Alternate images

Alternative





