Product datasheet

Specifications



single phase power supply, 100 to 240V AC input, 24V DC output, 120W, Din-rail, IP20

ABLS1A24050E

Main

Range of product	Easy Modicon ABL2
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	120 W
Main Input Voltage	100...240 V AC single phase 140...340 V DC
Output voltage	24 V DC
Power supply output current	5 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

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	0.4…0.6
Efficiency	87 %
Current consumption	1.34 A at 240 V 2.38 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	>= 12 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
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: 2 x 4 mm² AWG 12

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

Marking	CE UL
Operating altitude	2000 m 5000 m
Overvoltage category	II
Meantime between failure [MTBF]	100000 h at 40 °C
Status LED	1 LED (green) output voltage
Width	36 mm
Height	125 mm
Depth	113 mm
Net weight	0.451 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
IP degree of protection	IP20 conforming to EN 62368-1
Ambient air temperature for operation	20…50 °C (without derating) 50…70 °C (with derating factor)
Ambient air temperature for storage	-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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.200 cm
Package 1 Width	14.000 cm
Package 1 Length	15.000 cm
Package 1 Weight	543.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	20
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	11.327 kg
Unit Type of Package 3	P12

Number of Units in Package 3	480
Package 3 Height	105.000 cm
Package 3 Width	80.000 cm
Package 3 Length	120.000 cm
Package 3 Weight	284.848 kg

Contractual warranty

Warranty (in months)	18

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	768
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Packaging

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration

Use Again

Repack and remanufacture

End of life manual availability	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











