Product datasheet

Specifications



regulated SMPS, single phase, 100..240 V input, 24 V output, 240 W

ABL1REM24100

Discontinued

Discontinued on: 11 Nov 2020

End-of-service on: 25 Jan 2021

EAN Code: 3389110638363

Main

Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	240 W
Main Input Voltage	100...120 V AC single phase 200...240 V AC single phase 180...370 V DC
Output voltage	24 V DC
Power supply output current	10 A
Operating position	Any position
Vibration resistance	2 gn (f= 9…150 Hz) conforming to EN/IEC 61131-2 3.5 mm (f= 5…9 Hz) conforming to EN/IEC 61131-2
Name of test	Conducted interference conforming to EN 61000-4-8 level 4 Electrostatic discharges conforming to EN/IEC 61000-4-2 level 3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Conducted/radiated emissions conforming to EN 55022 class B Conducted/radiated emissions conforming to EN/IEC 55011 Emission conforming to EN/IEC 61000-6-3 Primary outage conforming to IEC 61000-4-11 Surge conforming to EN/IEC 61000-4-5

Complementary

Input voltage limits	170...264 V 85...132 V
Network frequency	47...63 Hz
Inrush current	50 A at 115 V AC 100 A at 230 V AC
Cos phi	0.65
Efficiency	80 %
Power dissipation in W	60 W
Current consumption	3 A at 240 V 6 A at 100 V
Input protection type	Integrated fuse (not interchangeable)
Output voltage limits	21.6...26.4 V
Line and load regulation	+/- 3 %

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

Holding time	>= 10 ms at 100 V >= 40 ms at 240 V
Output protection type	Against overload, protection technology: 1.1...1.5 x In Against overvoltage, protection technology: tripping if U > 1.25 x Un Against short-circuits, protection technology: automatic reset Thermal
Connections - terminals	For ground connection: screw type terminals, connection capacity: 1 x 4 mm² 12 AWG For input connection: screw type terminals, connection capacity: 2 x 4 mm² 12 AWG For output connection: screw type terminals, connection capacity: 4 x 4 mm² 12 AWG
Marking	CE
Mounting support	Reversible mounting bracket Panel
Operating altitude	2000 m
Output coupling	Series Parallel
Overvoltage category	II
Meantime between failure [MTBF]	100000 h at 40 °C
Status LED	1 LED (green) output voltage
Net weight	0.88 kg

Environment

Product certifications	CSA 22-2 No 60950-1 UL 508 KC EAC cCSAus RCM TUV 60950-1
Environmental characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 50082-2 EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950-1 Safety conforming to SELV
IP degree of protection	IP20 conforming to EN/IEC 60950
Ambient air temperature for operation	0…45 °C (without derating) 45…60 °C (with derating factor)
Ambient air temperature for storage	-25…85 °C
Relative humidity	20…90 %
Overvoltage category	Class I conforming to VDE 0106-1
Pollution degree	2
Dielectric strength	1500 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	8.5 cm
Package 1 Width	12 cm
Package 1 Length	23.5 cm

Package 1 Weight	1.057 kg

Logistical informations

Country of origin	CN

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

Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

SCIP Number	Fe64e454-324e-4d95-961c-5ccceb461cf0
EU RoHS Directive	Compliant By Exemption
PVC free	Yes

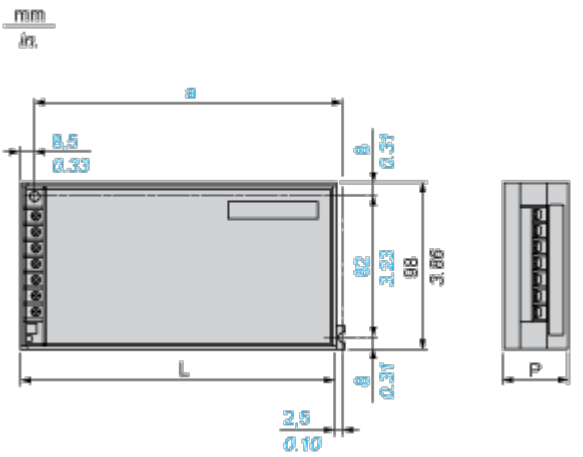
Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions



Dimensions in mm

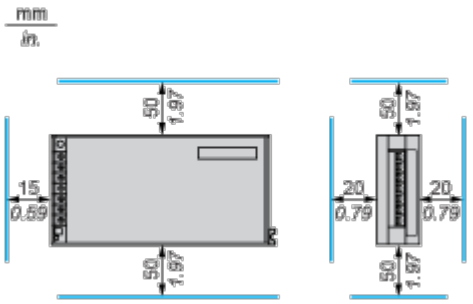
a	L	P
194	200	65

Dimensions in in.

a	L	P
7.64	7.87	2.56

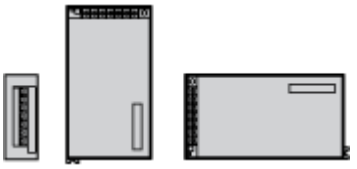
Mounting and Clearance

Clearance



Mounting Way

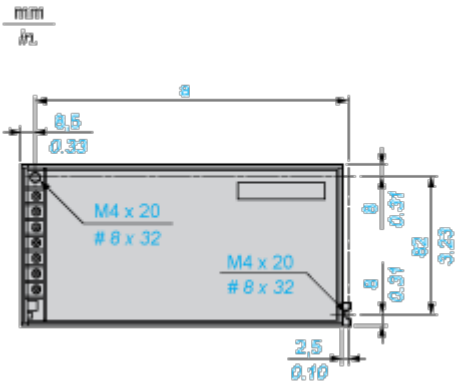
Mounting on Vertical Plane



Mounting on Horizontal Plane



Direct Mounting by 2 M4 x 20 Screws



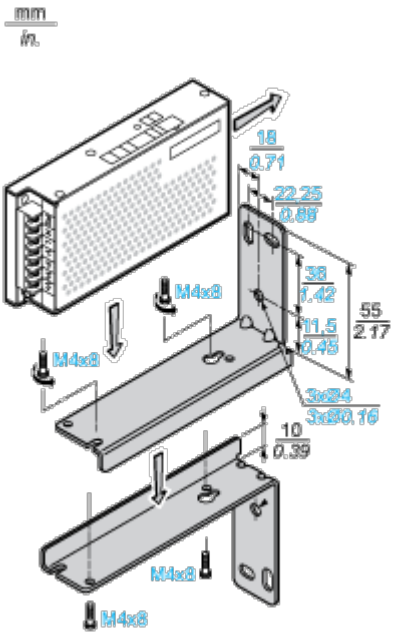
Dimensions in mm

a
194

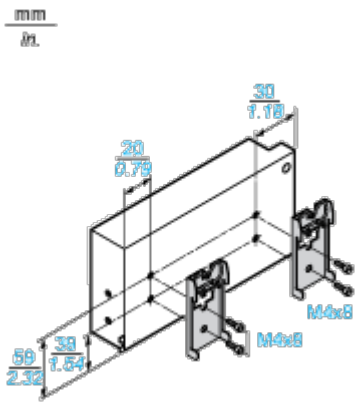
Dimensions in in

a
7.64

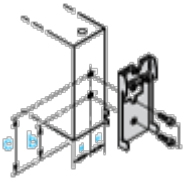
Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws



Mounting on ABL 1A02 Clip-on Mounting on 35 mm Rail



Mounting by the Back



Dimensions in mm

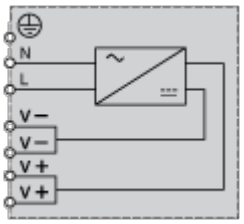
b	c
28	48

Dimensions in in.

b	c
1.10	1.89

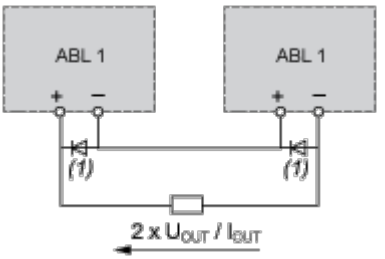
Connections and Schema

Internal Wiring Diagram

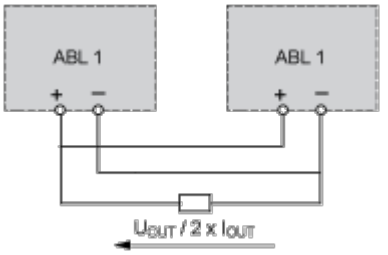


Series or Parallel Connection

Series Connection



Parallel Connection

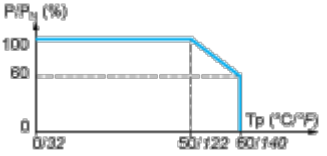


(1) 15 A/100 V Shottky diode

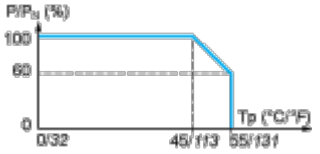
Performance Curves

Derating Curves

Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve

