Specifications

Ğreen Premium™



() Discontinued

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

ABL1RPM24042

- (Discontinued on: 11 Nov 2020
- (!) End-of-service on: 25 Jan 2021

#### EAN Code: 3389110638271

### Main

Wall		
Range Of Product	Phaseo Dedicated	
Product Or Component Type	Power supply	
Power Supply Type	Regulated switch mode	
Rated Power In W	100 W	
Main Input Voltage	100240 V AC single phase 120370 V DC	
Output Voltage	24 V DC	
Power Supply Output Current	4.2 A	
Operating Position	Any position	
/ibration Resistance   2 gn (f= 9150 Hz) conforming to EN/IEC 61131-2     3.5 mm (f= 59 Hz) conforming to EN/IEC 61131-2		
Name Of Test	he 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/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	85264 V
Network Frequency	4763 Hz
Inrush Current	50 A at 115 V AC 100 A at 230 V AC
Cos Phi	0.70.95
Efficiency	80 %
Power Dissipation In W	25 W
Current Consumption	0.7 A at 240 V 1.7 A at 100 V
Input Protection Type	Integrated fuse (not interchangeable)
Output Voltage Limits	21.626.4 V
Line And Load Regulation	+/- 3 %

0 ms at 100 V 0 ms at 240 V nst overload, protection technology: 1.11.5 x ln nst overvoltage, protection technology: tripping if U > 1.25 x Un nst short-circuits, protection technology: automatic reset mal ground connection: screw type terminals, connection capacity: 1 x 4 mm <sup>2</sup> AWG nput connection: screw type terminals, connection capacity: 2 x 4 mm <sup>2</sup> AWG 12 putput connection: screw type terminals, connection capacity: 4 x 4 mm <sup>2</sup> AWG 12
nst overload, protection technology: 1.11.5 x In nst overvoltage, protection technology: tripping if U > 1.25 x Un nst short-circuits, protection technology: automatic reset mal ground connection: screw type terminals, connection capacity: 1 x 4 mm <sup>2</sup> AWG nput connection: screw type terminals, connection capacity: 2 x 4 mm <sup>2</sup> AWG 12
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mal ground connection: screw type terminals, connection capacity: 1 x 4 mm <sup>2</sup> AWG nput connection: screw type terminals, connection capacity: 2 x 4 mm <sup>2</sup> AWG 12
ground connection: screw type terminals, connection capacity: 1 x 4 mm <sup>2</sup> AWG nput connection: screw type terminals, connection capacity: 2 x 4 mm <sup>2</sup> AWG 12
nput connection: screw type terminals, connection capacity: 2 x 4 mm² AWG 12
output connection: screw type terminals, connection capacity: 4 x 4 mm <sup>2</sup> AWG 12
ersible mounting bracket
) m
llel
95
100 h at 40 °C
D (green) output voltage
kg

# Environment

Product Certifications	TUV 60950-1 RCM UL 508 cCSAus CSA 22-2 No 60950-1 KC EAC	
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 Low frequency harmonic currents conforming to EN/IEC 61000-3-2	
Ip Degree Of Protection	IP20 conforming to EN/IEC 60950	
Ambient Air Temperature For Operation	045 °C (without derating) 4560 °C (with derating factor)	
Ambient Air Temperature For Storage	-2585 °C	
Relative Humidity	2090 %	
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	5.3 cm
Package 1 Width	12 cm
Package 1 Length	23.5 cm

Package 1 Weight

### **Contractual warranty**

Warranty

18 months

# Sustainability Screen

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance

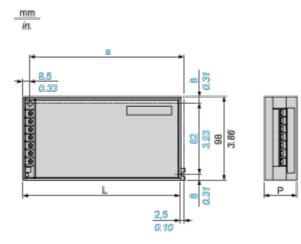


### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

### **Dimensions Drawings**

### Dimensions



#### Dimensions in mm

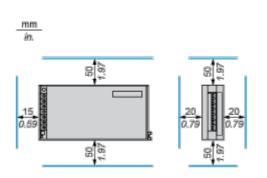
а	L	Р
194	200	38

#### Dimensions in in.

а	L	Р
7.64	7.87	1.50

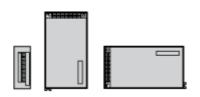
### Mounting and Clearance

### Clearance



### Mounting Way

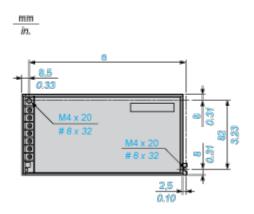
#### **Mounting on Vertical Plane**



### **Mounting on Horizontal Plane**



### Direct Mounting by 2 M4 x 20 Screws

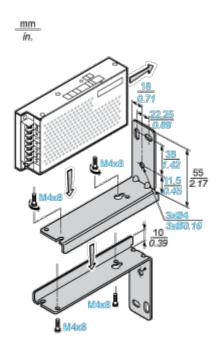


Dimensions in mm

a 194

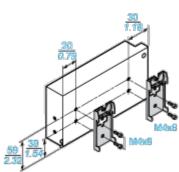
Dimensions in in

а 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





19 Apr 2024

Mounting by the Back



Dimensions in mm

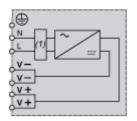
b	с
38	58

Dimensions in in.

b	с
1.50	2.28

Connections and Schema

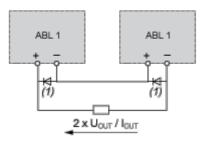
### Internal Wiring Diagram



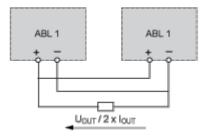
(1) Filter

### Series or Parallel Connection

### **Series Connection**



### **Parallel Connection**

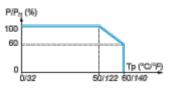


(1) 8 A/100 V Shottky diode

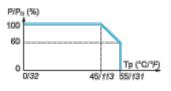
### Performance Curves

### **Derating Curves**

### **Mounting on Vertical Plane**



#### **Mounting on Horizontal Plane**



Load Limits Curve

