Specifications





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

ABL1RPM24100

() Discontinued on: Dec 1, 2020

① Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

### Main

Range Of Product	Phaseo Dedicated	
Product Or Component Type	Power supply	
Power Supply Type	Regulated switch mode	
Kw Rating	240 W	
Main Input Voltage	180370 V DC 100240 V AC single phase	
Output Voltage	24 V DC	
Power Supply Output Current	10 A	
Operating Position	Any position	
Vibration Resistance	2 gn 9150 Hz)EN/IEC 61131-2 3.5 mm 59 Hz)EN/IEC 61131-2	
Name Of Test	Conducted interference EN 61000-4-8 level 4 Electrostatic discharges EN/IEC 61000-4-2 level 3 Induced electromagnetic field EN/IEC 61000-4-6 level 3 Radiated electromagnetic field EN/IEC 61000-4-3 level 3 Rapid transient IEC 61000-4-4 level 3 Conducted/radiated emissions EN 55022 Class B Conducted/radiated emissions EN/IEC 55011 Emission EN/IEC 61000-6-3 Primary outage IEC 61000-4-11 Surge EN/IEC 61000-4-5	

### Complementary

Input Voltage Limits	85132 V 170264 V	
Network Frequency	4763 Hz	
Inrush Current	50 A 115 V AC 100 A 230 V AC	
Cos Phi	0.70.95	
Efficiency	80 %	
Power Dissipation In W	60 W	
Current Consumption	3 A 240 V 6 A 100 V	
Input Protection Type	Integrated fuse (not interchangeable)	
Output Voltage Limits	21.626.4 V	
Line And Load Regulation	+/- 3 %	

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

Holding Time	>= 10 ms 100 V	
	>= 40 ms 240 V	
Output Protection Type	Against overload 1.11.5 x In	
	Against overvoltage tripping if U > 1.25 x Un	
	Against short-circuits automatic reset	
	Thermal	
Connections - Terminals	Ground connection screw type terminals 1 x 4 mm <sup>2</sup> AWG 12	
	Input connection screw type terminals 2 x 4 mm <sup>2</sup> AWG 12	
	Output connection screw type terminals 4 x 4 mm <sup>2</sup> AWG 12	
Marking	CE	
Mounting Support	Reversible mounting bracket	
	Panel	
Operating Altitude	6561.68 ft (2000 m)	
Output Coupling	Parallel	
	Series	
Overvoltage Category	П	
Meantime Between Failure [Mtbf]	100000 h 104 °F (40 °C)	
Status Led	1 LED (Green) output voltage	
Net Weight	2.71 lb(US) (1.23 kg)	

### Environment

Product Certifications	EAC CSA 22-2 № 60950-1 TUV 60950-1 cCSAus KC UL 508 RCM	
Environmental Characteristic	EMC EN 50081-1 EMC EN 50082-2 EMC EN 61000-6-3 EMC EN/IEC 61000-6-2 Safety EN/IEC 60950-1 Safety SELV Low frequency harmonic currents EN/IEC 61000-3-2	
Ip Degree Of Protection	IP20 conforming to EN/IEC 60950	
Ambient Air Temperature For Operation	32113 °F (045 °C) without derating) 113140 °F (4560 °C) with derating factor)	
Ambient Air Temperature For Storage	-13185 °F (-2585 °C)	
Relative Humidity	2090 %	
Overvoltage Category	Class I 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	

# Ordering and shipping details

Category	US1CP1222524
Discount Schedule	CP12
Gtin	3389110638387
Returnability	No
Country Of Origin	US

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

### **Contractual warranty**

Warranty

18 months

# Sustainability Screen Premium

**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

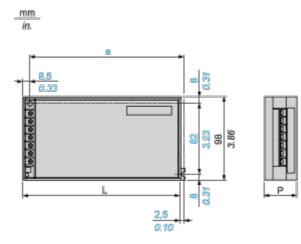
Mercury Free
Rohs Exemption Information Yes
Pvc Free

### **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	
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	

### **Dimensions Drawings**

### Dimensions



#### Dimensions in mm

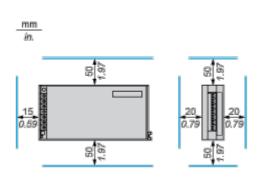
а	L	Ρ
194	200	65

#### Dimensions in in.

а	L	Р
7.64	7.87	2.56

### Mounting and Clearance

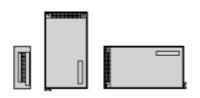
### Clearance



Life Is On Schneider

#### Mounting Way

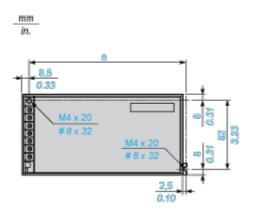
#### **Mounting on Vertical Plane**



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



### Direct Mounting by 2 M4 x 20 Screws

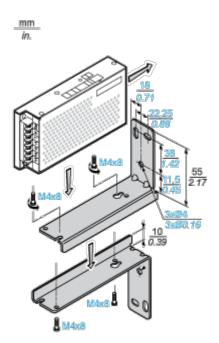


Dimensions in mm

a 194

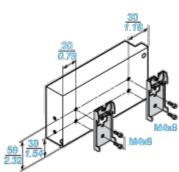
Dimensions in in

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





Mounting by the Back



Dimensions in mm

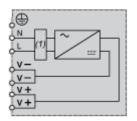
b	с
28	48

Dimensions in in.

b	с
1.10	1.89

Connections and Schema

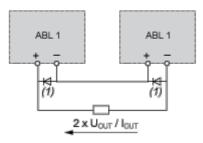
### Internal Wiring Diagram



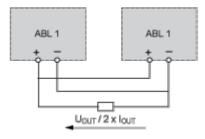
(1) Filter

#### Series or Parallel Connection

#### **Series Connection**



### **Parallel Connection**

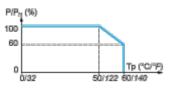


(1) 15 A/100 V Shottky diode

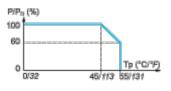
### Performance Curves

#### **Derating Curves**

### Mounting on Vertical Plane



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



Load Limits Curve

