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 ² AWG 12	
	Input connection screw type terminals 2 x 4 mm ² AWG 12	
	Output connection screw type terminals 4 x 4 mm ² 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 PremiumTM 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-CO₂ 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

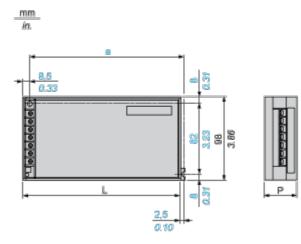
Mercury Free
Rohs Exemption Information Yes
Pvc Free

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

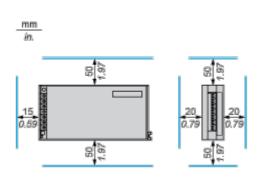
а	L	Ρ
194	200	65

Dimensions in in.

а	L	Р
7.64	7.87	2.56

Mounting and Clearance

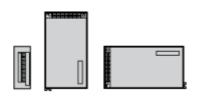
Clearance



Life Is On Schneider

Mounting Way

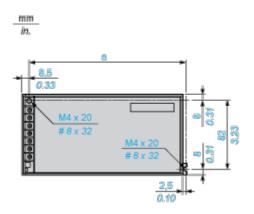
Mounting on Vertical Plane



Mounting on Horizontal Plane



Direct Mounting by 2 M4 x 20 Screws

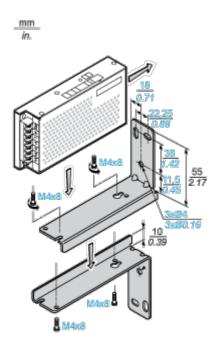


Dimensions in mm

a 194

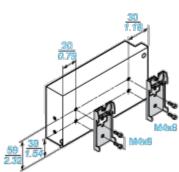
Dimensions in in

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

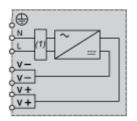
b	с
28	48

Dimensions in in.

b	с
1.10	1.89

Connections and Schema

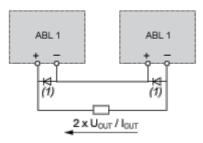
Internal Wiring Diagram



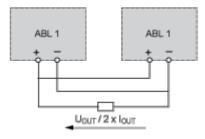
(1) Filter

Series or Parallel Connection

Series Connection



Parallel Connection

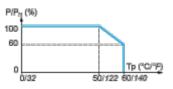


(1) 15 A/100 V Shottky diode

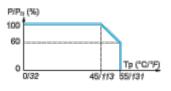
Performance Curves

Derating Curves

Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve

