



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

ABL1RPM24100

Discontinued on: 01 December 2020

① Discontinued

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 %

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 mm² AWG 12 Input connection screw type terminals 2 x 4 mm² AWG 12 Output connection screw type terminals 4 x 4 mm² AWG 12	
Marking	CE	
Mounting Support	Reversible mounting bracket Panel	
Operating altitude	6561.68 ft (2000 m)	
Output coupling	Parallel Series	
Overvoltage category	II	
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 Cartifications	FAC	

Product Certifications	EAC CSA 22-2 No 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 %
	Class I VDE 0106-1
Pollution degree	2

Ordering and shipping details

Category	22524-ABL1 DEDICATED POWER SUPPLIES	
Discount Schedule	CP12	
GTIN	3389110638387	
Returnability	No	
Country of origin	CN	

Packing Units

Dielectric strength

Unit Type of Package 1 PCE

1500 V between input and ground 3000 V between input and output 500 V between output and ground

Number of Units in Package 1

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
PVC free	Yes

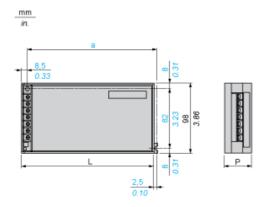
Contractual warranty

Warranty 18 months

ABL1RPM24100

Dimensions Drawings

Dimensions



Dimensions in mm

а	L	Р
194	200	65

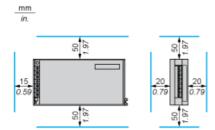
Dimensions in in.

а	L	Р
7.64	7.87	2.56

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Mounting and Clearance

Clearance

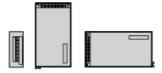


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Mounting and Clearance

Mounting Way

Mounting on Vertical Plane



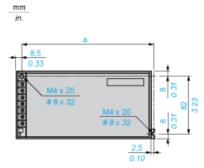
Mounting on Horizontal Plane



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Mounting and Clearance

Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

a	
194	

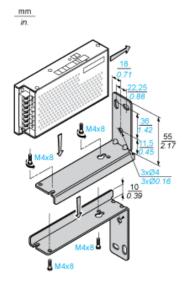
Dimensions in in

a	
7.64	

ABL1RPM24100

Mounting and Clearance

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

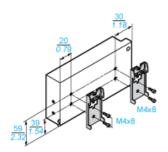


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Mounting and Clearance

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

in.



ABL1RPM24100

Mounting and Clearance

Mounting by the Back



Dimensions in mm

b	С
28	48

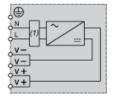
Dimensions in in.

b	С
1.10	1.89

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Connections and Schema

Internal Wiring Diagram



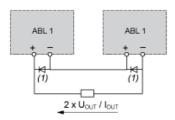
1) Filter

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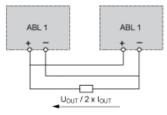
Connections and Schema

Series or Parallel Connection

Series Connection



Parallel Connection



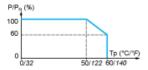
(1) 15 A/100 V Shottky diode

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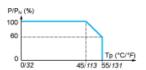
Performance Curves

Derating Curves

Mounting on Vertical Plane



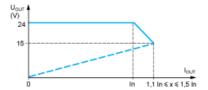
Mounting on Horizontal Plane



ABL1RPM24100

Performance Curves

Load Limits Curve



Recommended replacement(s)

ABL1RPM24100 is replaced by:





Regulated Power Supply, modicon power supply, 100...240V AC, 24V, 10A, single phase, Panel Mount

ABLP1A24100