



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

ABL1REM24042

① Discontinued on: 28 February 2021

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Main

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
Vibration 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	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	85264 V
Network frequency	4763 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	25 W
Current consumption	0.7 A at 240 V 1.4 A at 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 at 100 V >= 40 ms at 240 V
Output protection type	Against overload, protection technology: 1.11.5 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 AWG 12 For input connection: screw type terminals, connection capacity: 2 x 4 mm² AWG 12 For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 12
Marking	CE
Mounting support	Panel Reversible mounting bracket
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	0.64 kg
Environment	
Product certifications	UL 508 cCSAus TUV 60950-1 CSA 22-2 No 60950-1 RCM 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
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 %
	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
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes

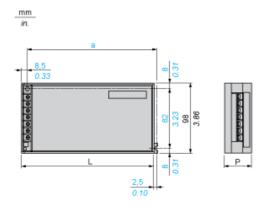
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
PVC free	Yes
Contractual warranty	

Warranty 18 months

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Dimensions Drawings

Dimensions



Dimensions in mm

а	L	Р
194	200	38

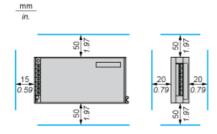
Dimensions in in.

а	L	Р
7.64	7.87	1.50

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Mounting and Clearance

Clearance

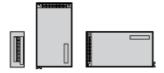


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Mounting and Clearance

Mounting Way

Mounting on Vertical Plane



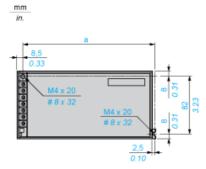
Mounting on Horizontal Plane



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Mounting and Clearance

Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

а	
194	

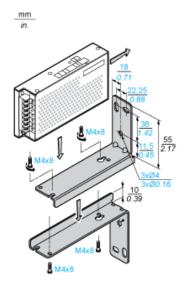
Dimensions in in

а	
7.64	

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Mounting and Clearance

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

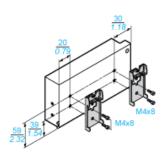


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Mounting and Clearance

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

_mm in



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Mounting and Clearance

Mounting by the Back



Dimensions in mm

b	С
38	58

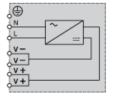
Dimensions in in.

b	С
1.50	2.28

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Connections and Schema

Internal Wiring Diagram

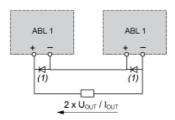


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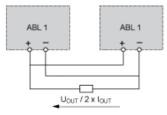
Connections and Schema

Series or Parallel Connection

Series Connection



Parallel Connection



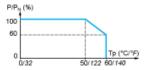
(1) 8 A/100 V Shottky diode

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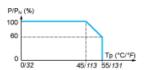
Performance Curves

Derating Curves

Mounting on Vertical Plane



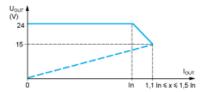
Mounting on Horizontal Plane



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Performance Curves

Load Limits Curve



Recommended replacement(s)

ABL1REM24042 is replaced by:





Regulated Power Supply, 100...240V AC, 24V 4.5A, single phase, Panel Mount ABLP1A24045