



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

ABL1REM24042

Discontinued on: 23-Nov-2020



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

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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	
	For input connection: screw type terminals, connection capacity: 2 x 4 mm ² AWG 12 For output connection: screw type terminals, connection capacity: 4 x 4 mm ² 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
	Salety conforming to SEEV
IP degree of protection	IP20 conforming to EN/IEC 60950
Ambient air temperature for	045 °C (without derating)
operation	4560 °C (with derating factor)
Ambient air temperature for	-2585 °C
storage	
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
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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty	19 months
**arranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

How this information helps you >

Environmental Disclosure	Product Environmental Profile

Use Better

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Fe64e454-324e-4d95-961c-5ccceb461cf0
China RoHS Regulation	China RoHS declaration
PVC free	Yes

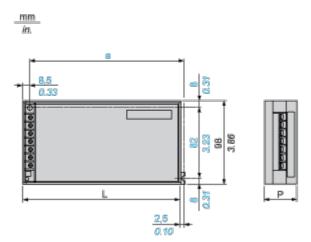
Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information

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Dimensions Drawings

Dimensions



Dimensions	in	mm

а	L	Р
194	200	38

Dimensions in in.

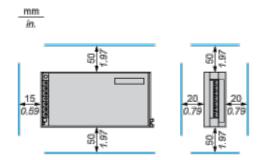
а	L P		
7.64	7.87	1.50	

Product datasheet

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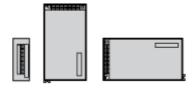
Mounting and Clearance

Clearance



Mounting Way

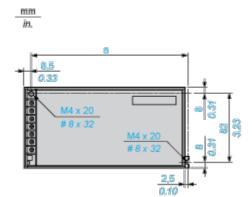
Mounting on Vertical Plane



Mounting on Horizontal Plane



Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

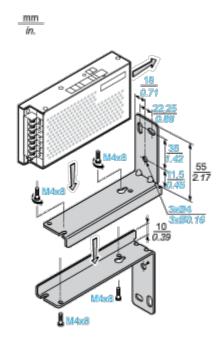
а	
194	

Dimensions in in

а	
7.64	

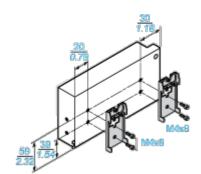
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Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws



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





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Mounting by the Back



Dimensions in mm

b	С
38	58

Dimensions in in.

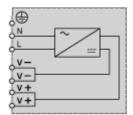
b	С
1.50	2.28

Product datasheet

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Connections and Schema

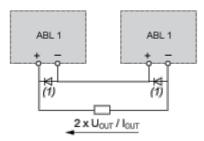
Internal Wiring Diagram



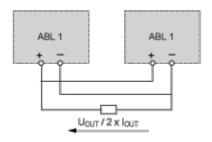
06-Jan-2025

Series or Parallel Connection

Series Connection



Parallel Connection



(1) 8 A/100 V Shottky diode

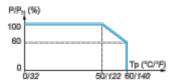
Product datasheet

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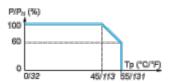
Performance Curves

Derating Curves

Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve

