ABL1REM24042

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



Main

Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	100 W
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 Conducted/radiated emissions conforming to EN 55022 Class B Conducted/radiated emissions conforming to EN/IEC 55011 Electrostatic discharges conforming to EN/IEC 61000-4-2 level 3 Emission conforming to EN/IEC 61000-6-3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 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	Screw type terminals for ground connection, connection capacity: 1 x 4 mm² AWG 12 Screw type terminals for input connection, connection capacity: 2 x 4 mm² AWG 12 Screw type terminals for output connection, connection capacity: 4 x 4 mm² AWG 12
Marking	CE
Mounting support	Panel Reversible mounting bracket
Operating altitude	2000 m

Output coupling	Parallel Series
Overvoltage category	II
Meantime between failure [MTBF]	> 100000 h at 40 °C
Status LED	1 LED green for output voltage
Product weight	0.64 kg

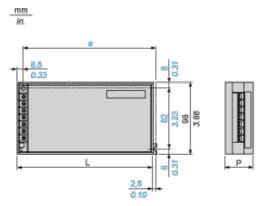
Environment

product certifications	CCSAus
•	CSA 22-2 No 60950-1
	TUV 60950-1
	UL 508
	RCM
	EAC
	KC
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 factor
	4560 °C with derating factor
ambient air temperature for storage	-2585 °C
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

Contractual warranty

Warranty period 18 months	
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Dimensions



Dimensions in mm

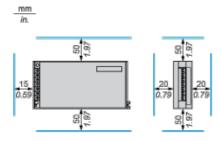
а	L	Р
194	200	38

Dimensions in in.

a	L	Р
7.64	7.87	1.50

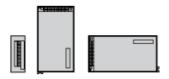


Clearance



Mounting Way

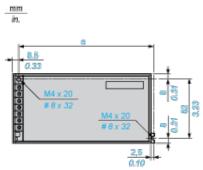
Mounting on Vertical Plane



Mounting on Horizontal Plane



Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

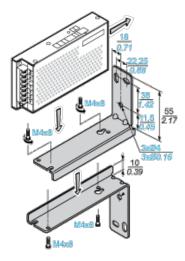


Dimensions in in



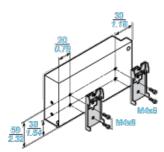
Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws





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





Mounting by the Back



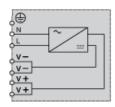
Dimensions in mm

b	С
38	58

Dimensions in in.

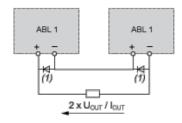
b	С
1.50	2.28

Internal Wiring Diagram

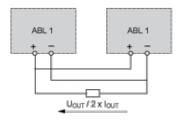


Series or Parallel Connection

Series Connection



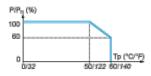
Parallel Connection



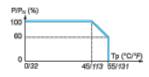
(1) 8 A/100 V Shottky diode

Derating Curves

Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve

