ABL1RPM24100

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



Main

Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	240 W
Input voltage	AC single phase AC single phase DC
Output voltage	24 V DC
Power supply output current	10 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

oompromontary	
Input voltage limits	170264 V 85132 V
Network frequency	4763 Hz
Inrush current	<= 50 A at 115 V AC <= 100 A at 230 V AC
Cos phi	0.70.95
Efficiency	> 80 %
Power dissipation in W	60 W
Current consumption	3 A at 240 V 6 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

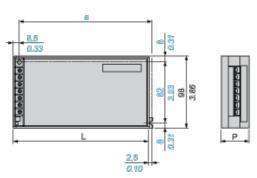
	Reversible mounting bracket	
Operating altitude	ing altitude 2000 m	
Output coupling	Parallel Series	
Overvoltage category	II	
Meantime between failure (MTBF)	> 100000 h at 40 °C	
Status LED	1 LED green for output voltage	
Product weight	1.23 kg	

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 Low frequency harmonic currents conforming to EN/IEC 61000-3-2
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

Dimensions





Dimensions in mm

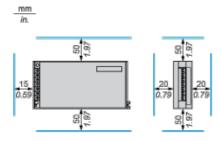
а	L	Р
194	200	65

Dimensions in in.

а	L	Р
7.64	7.87	2.56

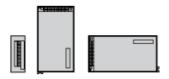


Clearance



Mounting Way

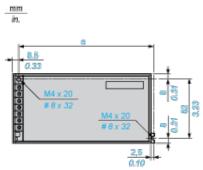
Mounting on Vertical Plane



Mounting on Horizontal Plane



Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

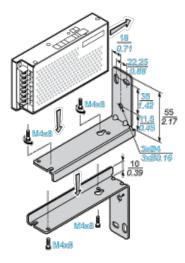


Dimensions in in



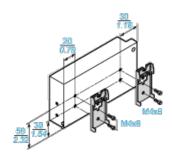
Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws





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





Mounting by the Back



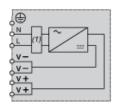
Dimensions in mm

b	С
28	48

Dimensions in in.

b	С
1.10	1.89

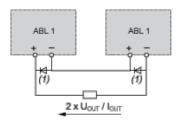
Internal Wiring Diagram



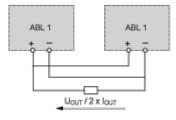
(1) Filter

Series or Parallel Connection

Series Connection



Parallel Connection



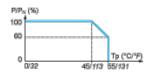
(1) 15 A/100 V Shottky diode

Derating Curves

Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve

