

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	100120 V AC single phase 180370 V 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

Complementary		
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 Aat 240 V	
	6 Aat 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 ln	
	Against overvoltage, protection technology: tripping if U > 1.25 x Un	
	Against short-circuits, protection technology: automatic reset	
	Thermal	
Connections - terminals	Screw type terminals ground connection, connection capacity: 1 x 4 mm² AWG	
	Screw type terminals input connection, connection capacity: 2 x 4 mm ² AWG 12	
	Screw type terminals output connection, connection capacity: 4 x 4 mm² AWG 12	
Marking	CE	

Mounting support	Panel
	Reversible mounting bracket
Operating altitude	6561.68 ft (2000 m)
Output coupling	Parallel
	Series
Overvoltage category	II
Meantime between failure [MTBF]	100000 h at 40 °C
Status LED	1 LED green output voltage
Product weight	2.71 lb(US) (1.23 kg)

Environment

Product certifications	CCSAus	
	CSA 22-2 No 60950-1	
	TUV 60950-1	
	UL 508	
	RCM	
	EAC	
	KC	
Environmental characteristic	Low frequency harmonic currents conforming to EN/IEC 61000-3-2	
	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	32113 °F (045 °C) without derating factor	
	113140 °F (4560 °C) with derating factor	
Ambient air temperature for storage	-13185 °F (-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	

Ordering and shipping details

Category	22524 - ABL1 DEDICATED POWER SUPPLIES	
Discount Schedule	CP12	
GTIN	00785901665540	
Nbr. of units in pkg.	1	
Package weight(Lbs)	3.08999999999999	
Returnability	Υ	
Country of origin	CN	

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including:	
Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.	
More information	For more information go to www.p65warnings.ca.gov	

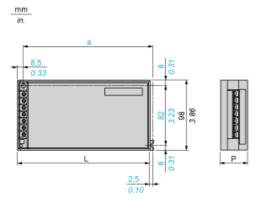
Contractual warranty

Warranty period	18 months

Product data sheet Dimensions Drawings

ABL1RPM24100

Dimensions



Dimensions in mm

а	L	Р
194	200	65

Dimensions in in.

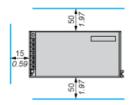
а	L	Р
7.64	7.87	2.56

Product data sheet Mounting and Clearance

ABL1RPM24100

Clearance

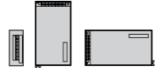






Mounting Way

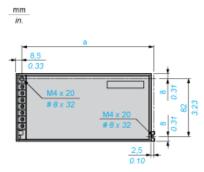
Mounting on Vertical Plane



Mounting on Horizontal Plane



Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

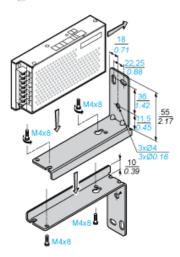
a 194

Dimensions in in

7.64

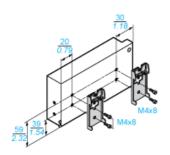
Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws





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





Mounting by the Back



Dimensions in mm

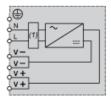
b	С
28	48

Dimensions in in.

b	c
1.10	1.89

ABL1RPM24100

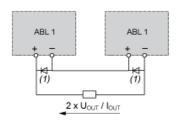
Internal Wiring Diagram



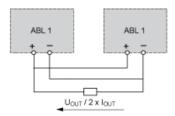
(1) Filter

Series or Parallel Connection

Series Connection



Parallel Connection



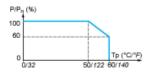
(1) 15 A/100 V Shottky diode

Product data sheet Performance Curves

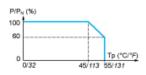
ABL1RPM24100

Derating Curves

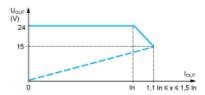
Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schneider Electric:

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