



# regulated SMPS, single phase, 100..240 V input, 12 V output, 100 W

ABL1RPM12083

Discontinued on: Feb 17, 2021

(!) Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

## Main

Range Of Product	Phaseo Dedicated	
Product Or Component Type	Power supply	
Power Supply Type	Regulated switch mode	
Kw Rating	100 W	
Main Input Voltage	100240 V AC single phase 120370 V DC	
Output Voltage	12 V DC	
Power Supply Output Current	8.3 A	
Operating Position	Any position	
Vibration Resistance	2 gn 9150 Hz)EN/IEC 61131-2 3.5 mm 59 Hz)EN/IEC 61131-2	
Name Of Test	Conducted interference EN 61000-4-8 level 4 Electrostatic discharges EN/IEC 61000-4-2 level 3 Induced electromagnetic field EN/IEC 61000-4-6 level 3 Radiated electromagnetic field EN/IEC 61000-4-3 level 3 Rapid transient IEC 61000-4-4 level 3 Conducted/radiated emissions EN 55022 Class B Conducted/radiated emissions EN/IEC 55011 Emission EN/IEC 61000-6-3 Primary outage IEC 61000-4-11 Surge EN/IEC 61000-4-5	

# Complementary

Input Voltage Limits	85264 V
Network Frequency	4763 Hz
Inrush Current	50 A 115 V AC 100 A 230 V AC
Cos Phi	0.70.95
Efficiency	80 %
Power Dissipation In W	25 W
Current Consumption	0.7 A 240 V 1.7 A 100 V
Input Protection Type	Integrated fuse (not interchangeable)
Output Voltage Limits	10.813.2 V
Line And Load Regulation	+/- 3 %

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Holding Time	>= 10 ms 100 V >= 40 ms 240 V
Output Protection Type	Against overload 1.11.5 x In Against overvoltage tripping if U > 1.25 x Un Against short-circuits automatic reset Thermal
Connections - Terminals	Ground connection screw type terminals 1 x 4 mm² AWG 12 Input connection screw type terminals 2 x 4 mm² AWG 12 Output connection screw type terminals 4 x 4 mm² AWG 12
Marking	CE
Mounting Support	Reversible mounting bracket Panel
Operating Altitude	6561.68 ft (2000 m)
Output Coupling	Series Parallel
Overvoltage Category	II
Meantime Between Failure [Mtbf]	100000 h 104 °F (40 °C)
Status Led	1 LED (Green) output voltage
Net Weight	1.41 lb(US) (0.64 kg)

# **Environment**

Product Certifications	TUV 60950-1 UL 508 cCSAus EAC CSA 22-2 No 60950-1
	RCM
Environmental Characteristic	EMC EN 50081-1 EMC EN 50082-2 EMC EN 61000-6-3 EMC EN/IEC 61000-6-2 Safety EN/IEC 60950-1 Safety SELV Low frequency harmonic currents EN/IEC 61000-3-2
Ip Degree Of Protection	IP20 conforming to EN/IEC 60950
Ambient Air Temperature For Operation	32113 °F (045 °C) without derating) 113140 °F (4560 °C) with derating factor)
Ambient Air Temperature For Storage	-13185 °F (-2585 °C)
Relative Humidity	2090 %
Overvoltage Category	Class I 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	US1CP1222524
Discount Schedule	CP12
Gtin	3389110638196
Returnability	No
Country Of Origin	SG

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	9.25 in (23.5 cm)
Package 1 Length	4.65 in (11.8 cm)
Package 1 Weight	25.96 oz (736 g)

# **Contractual warranty**

Warranty 18 months

# Sustainability Green Premium"

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

## Well-being performance

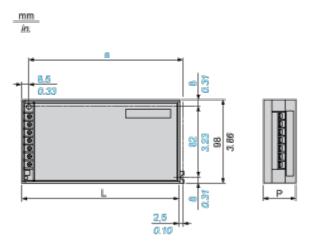
<b>Ø</b>	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

## **Certifications & Standards**

California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
Circularity Profile	End of Life Information	
Environmental Disclosure	Product Environmental Profile	
China Rohs Regulation	China RoHS declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Reach Regulation	REACh Declaration	

## **Dimensions Drawings**

## **Dimensions**



Dime	ensions	in	mm

а	L	Р
194	200	38

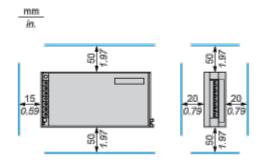
#### Dimensions in in.

a L P			
7.64	7.87	1.50	

# **ABL1RPM12083**

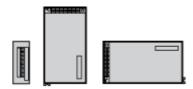
Mounting and Clearance

## Clearance



## **Mounting Way**

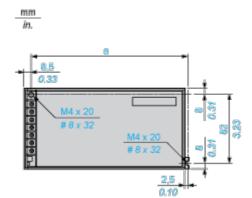
#### **Mounting on Vertical Plane**



## **Mounting on Horizontal Plane**



## Direct Mounting by 2 M4 x 20 Screws



#### Dimensions in mm

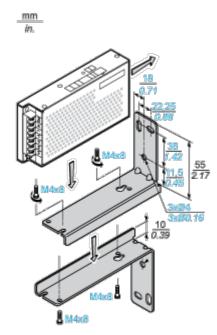
а	
194	

## Dimensions in in

а	
7.64	

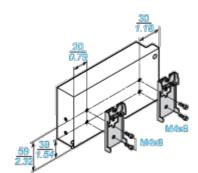
# ABL1RPM12083

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





# ABL1RPM12083

## Mounting by the Back



#### Dimensions in mm

b	С
38	58

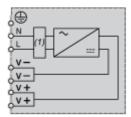
# Dimensions in in.

b	С
1.50	2.28

# **ABL1RPM12083**

Connections and Schema

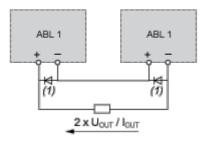
## **Internal Wiring Diagram**



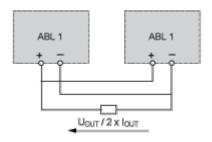
(1) Filter

## **Series or Parallel Connection**

#### **Series Connection**



#### **Parallel Connection**



(1) 15 A/100 V Shottky diode

Jun 20, 2024

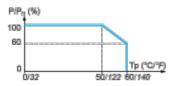
13

# **ABL1RPM12083**

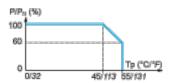
#### Performance Curves

## **Derating Curves**

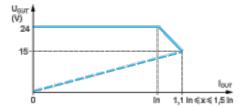
## **Mounting on Vertical Plane**



#### **Mounting on Horizontal Plane**



## **Load Limits Curve**



15