

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

ABL1REM24100

! Discontinued on: 20 Dec 2020

### ! Discontinued

# Main

Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	240 W
Main Input Voltage	100120 V AC single phase 200240 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 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

•	
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	0.65
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 %

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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 12  For input connection: screw type terminals, connection capacity: 2 x 4 mm² AWG 12  For output connection: screw type terminals, connection capacity: 4 x 4 mm² AWG 12
Marking	CE
Mounting support	Reversible mounting bracket Panel
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	0.88 kg
Environment	
Product certifications	CSA 22-2 No 60950-1 UL 508 KC EAC cCSAus RCM TUV 60950-1
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) 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
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.5 cm
Package 1 Width	12 cm

23.5 cm

Package 1 Length

Package 1 Weight

# **Contractual warranty**

Warranty 18 months

1.057 kg



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.

Environmental Data explained >

How we assess product sustainability >

### ∅ Environmental footprint

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
PVC free	Yes

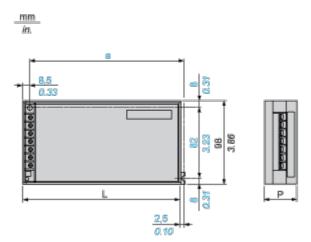
### **Use Again**

○ Repack and remanufacture	
End of life manual availability	End of Life Information
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

# **ABL1REM24100**

## **Dimensions Drawings**

## **Dimensions**



Dimensions in mm

а	L	Р
194	200	65

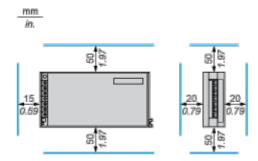
#### Dimensions in in.

а	L	Р
7.64	7.87	2.56

# **ABL1REM24100**

Mounting and Clearance

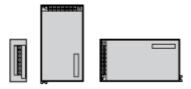
## Clearance



# ABL1REM24100

### **Mounting Way**

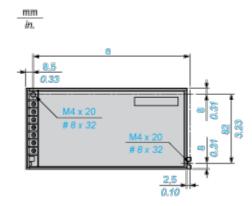
### **Mounting on Vertical Plane**



### **Mounting on Horizontal Plane**



## Direct Mounting by 2 M4 x 20 Screws



#### Dimensions in mm

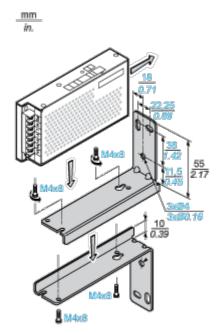
а	
194	

### Dimensions in in

а	
7.64	

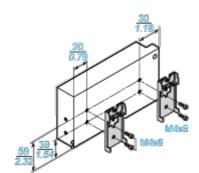
# ABL1REM24100

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

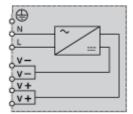
### Dimensions in in.

b	С		
1.10	1.89		

# **ABL1REM24100**

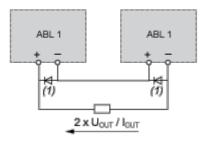
Connections and Schema

## **Internal Wiring Diagram**

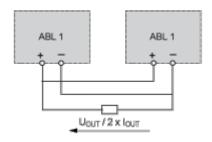


### **Series or Parallel Connection**

### **Series Connection**



### **Parallel Connection**



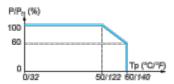
(1) 15 A/100 V Shottky diode

# **ABL1REM24100**

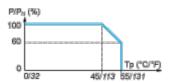
### Performance Curves

### **Derating Curves**

## **Mounting on Vertical Plane**



### **Mounting on Horizontal Plane**



### **Load Limits Curve**

