

# Product datasheet

Specifications



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

ABL1REM24100

Discontinued on: 29 Nov 2021

End-of-service on: 31 Mar 2022

Discontinued

Price: 5,688.98 ZAR

## 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          | 100...120 V AC single phase<br>200...240 V AC single phase<br>180...370 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Output Voltage              | 24 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Power Supply Output Current | 10 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Operating Position          | Any position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Vibration Resistance        | 2 gn (f= 9...150 Hz) conforming to EN/IEC 61131-2<br>3.5 mm (f= 5...9 Hz) conforming to EN/IEC 61131-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Name Of Test                | Conducted interference conforming to EN 61000-4-8 level 4<br>Electrostatic discharges conforming to EN/IEC 61000-4-2 level 3<br>Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3<br>Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3<br>Rapid transient conforming to IEC 61000-4-4 level 3<br>Conducted/radiated emissions conforming to EN 55022 class B<br>Conducted/radiated emissions conforming to EN/IEC 55011<br>Emission conforming to EN/IEC 61000-6-3<br>Primary outage conforming to IEC 61000-4-11<br>Surge conforming to EN/IEC 61000-4-5 |

## Complementary

|                        |                                       |
|------------------------|---------------------------------------|
| Input Voltage Limits   | 170...264 V<br>85...132 V             |
| Network Frequency      | 47...63 Hz                            |
| Inrush Current         | 50 A at 115 V AC<br>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<br>6 A at 100 V          |
| Input Protection Type  | Integrated fuse (not interchangeable) |
| Output Voltage Limits  | 21.6...26.4 V                         |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                              |                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Line And Load Regulation                     | +/- 3 %                                                                                                                                                                                                                                                                                           |
| Holding Time                                 | >= 10 ms at 100 V<br>>= 40 ms at 240 V                                                                                                                                                                                                                                                            |
| Output Protection Type                       | Against overload, protection technology: 1.1...1.5 x I <sub>n</sub><br>Against overvoltage, protection technology: tripping if U > 1.25 x U <sub>n</sub><br>Against short-circuits, protection technology: automatic reset<br>Thermal                                                             |
| Connections - Terminals                      | For ground connection: screw type terminals, connection capacity: 1 x 4 mm <sup>2</sup> AWG 12<br>For input connection: screw type terminals, connection capacity: 2 x 4 mm <sup>2</sup> AWG 12<br>For output connection: screw type terminals, connection capacity: 4 x 4 mm <sup>2</sup> AWG 12 |
| Marking                                      | CE                                                                                                                                                                                                                                                                                                |
| Mounting Support                             | Reversible mounting bracket<br>Panel                                                                                                                                                                                                                                                              |
| Operating Altitude                           | 2000 m                                                                                                                                                                                                                                                                                            |
| Output Coupling                              | Series<br>Parallel                                                                                                                                                                                                                                                                                |
| Overvoltage Category                         | II                                                                                                                                                                                                                                                                                                |
| Meantime Between Failure [Mtb <sub>f</sub> ] | 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<br>UL 508<br>KC<br>EAC<br>cCSAus<br>RCM<br>TUV 60950-1                                                                                                                               |
| Environmental Characteristic          | EMC conforming to EN 50081-1<br>EMC conforming to EN 50082-2<br>EMC conforming to EN 61000-6-3<br>EMC conforming to EN/IEC 61000-6-2<br>Safety conforming to EN/IEC 60950-1<br>Safety conforming to SELV |
| Ip Degree Of Protection               | IP20 conforming to EN/IEC 60950                                                                                                                                                                          |
| Ambient Air Temperature For Operation | 0...45 °C (without derating)<br>45...60 °C (with derating factor)                                                                                                                                        |
| Ambient Air Temperature For Storage   | -25...85 °C                                                                                                                                                                                              |
| Relative Humidity                     | 20...90 %                                                                                                                                                                                                |
| Overvoltage Category                  | Class I conforming to VDE 0106-1                                                                                                                                                                         |
| Pollution Degree                      | 2                                                                                                                                                                                                        |
| Dielectric Strength                   | 1500 V between input and ground<br>3000 V between input and output<br>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  |

|                  |          |
|------------------|----------|
| Package 1 Length | 23.5 cm  |
| Package 1 Weight | 1.057 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class 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

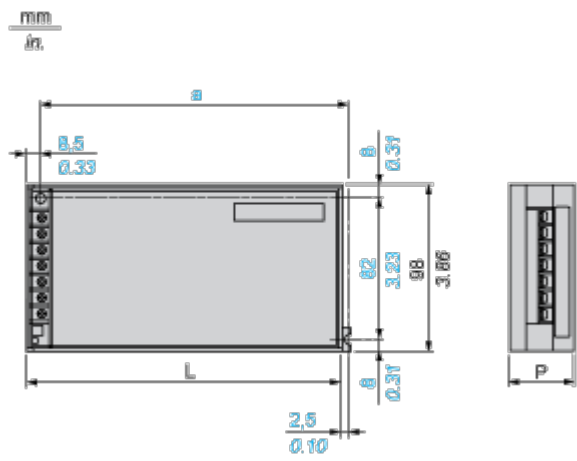
|   |                            |     |
|---|----------------------------|-----|
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free                   |     |

Certifications & Standards

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                          |
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>                     |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>              |
| Circularity Profile      | <a href="#">End of Life Information</a>                    |

Dimensions Drawings

Dimensions



Dimensions in mm

| a   | L   | P  |
|-----|-----|----|
| 194 | 200 | 65 |

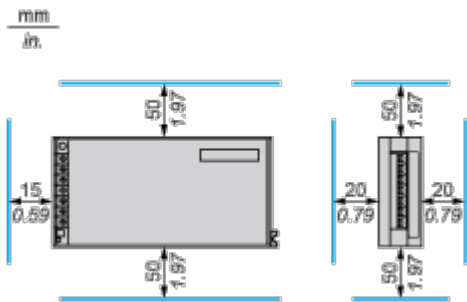
Dimensions in in.

| a    | L    | P    |
|------|------|------|
| 7.64 | 7.87 | 2.56 |

Mounting and Clearance

Clearance

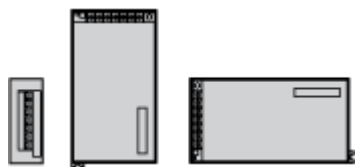
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Mounting Way

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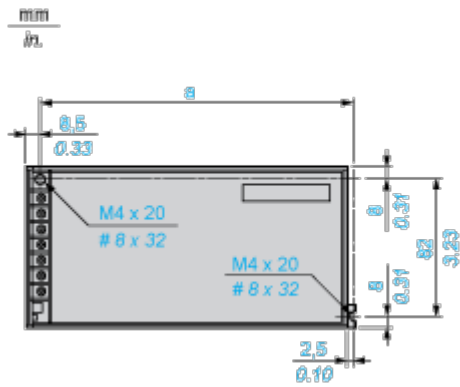
Mounting on Vertical Plane



Mounting on Horizontal Plane



### Direct Mounting by 2 M4 x 20 Screws



Dimensions in mm

a

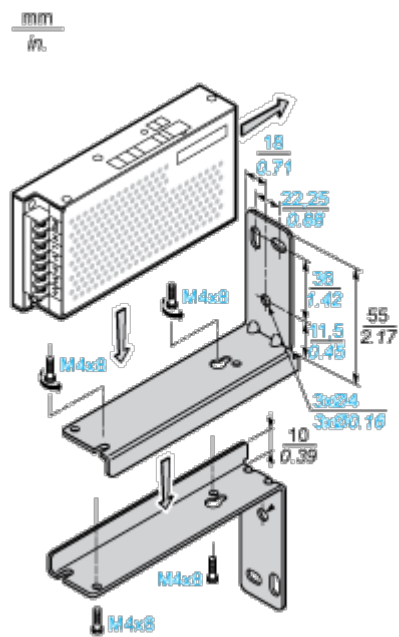
194

Dimensions in in

a

7.64

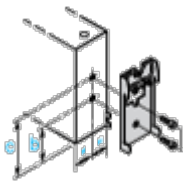
Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws





Mounting by the Back

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Dimensions in mm

| b  | c  |
|----|----|
| 28 | 48 |

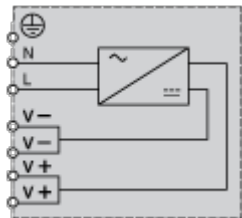
Dimensions in in.

| b    | c    |
|------|------|
| 1.10 | 1.89 |

Connections and Schema

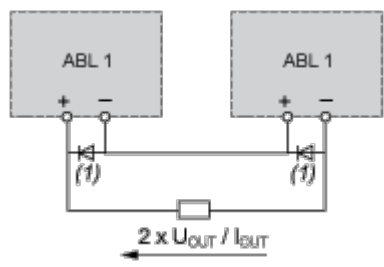
Internal Wiring Diagram

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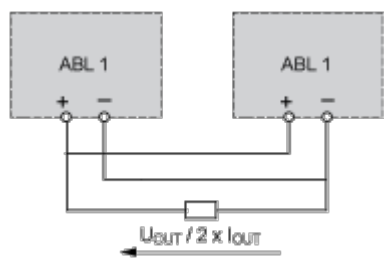


Series or Parallel Connection

Series Connection



Parallel Connection



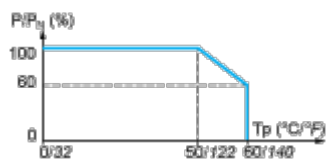
(1) 15 A/100 V Shottky diode

Performance Curves

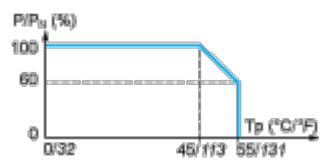
Derating Curves

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Mounting on Vertical Plane



Mounting on Horizontal Plane



Load Limits Curve

