

# Product datasheet

Specifications



single phase power supply,  
100...240V input, 24V DC output,  
108W, 4,5A

ABL2REM24045K

## Main

|                             |                                                                            |
|-----------------------------|----------------------------------------------------------------------------|
| Range of product            | Easy Modicon ABL2                                                          |
| Product or component type   | Power supply                                                               |
| Power supply type           | Regulated switch mode                                                      |
| Rated power in W            | 108 W                                                                      |
| Main Input Voltage          | 100...240 V AC single phase                                                |
| Output voltage              | 24 V DC                                                                    |
| Power supply output current | 4.5 A                                                                      |
| Operating position          | Any position                                                               |
| Vibration resistance        | 4 gn (f= 10...500 Hz) conforming to IEC 61131-2                            |
| Name of test                | Electromagnetic hypersensitivity (EHS) conforming to IEC 61000-6-2 level A |

## Complementary

|                               |                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input voltage limits          | 85...264 V                                                                                                                                                                            |
| Network frequency             | 47...63 Hz                                                                                                                                                                            |
| Inrush current                | 50 A at 100...240 V AC                                                                                                                                                                |
| Cos phi                       | 0.45                                                                                                                                                                                  |
| Efficiency                    | 89 %                                                                                                                                                                                  |
| Power dissipation in W        | 13.3 W                                                                                                                                                                                |
| Current consumption           | 1.1 A at 240 V                                                                                                                                                                        |
| Input protection type         | Integrated fuse (not interchangeable)                                                                                                                                                 |
| Output voltage limits         | 20.4...27.6 V                                                                                                                                                                         |
| Line and load regulation      | +/- 1 %                                                                                                                                                                               |
| Holding time                  | >= 10 ms at 115 V                                                                                                                                                                     |
| Output protection type        | Against overload, protection technology: 1.1...1.5 x In<br>Against short-circuits, protection technology: 1.1...1.5 x In<br>Against overvoltage, protection technology: 28.8...33.6 V |
| Connections - terminals       | For ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 12                                                                                                    |
| Marking                       | CE                                                                                                                                                                                    |
| Electromagnetic compatibility | Immunity to electromagnetic interference conforming to EN 55022 class B                                                                                                               |
| Mounting support              | DIN rail with accessory<br>DIN rail with accessory                                                                                                                                    |
| Operating altitude            | 5000 m                                                                                                                                                                                |

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

|                                 |                              |
|---------------------------------|------------------------------|
| Output coupling                 | Series                       |
| Overvoltage category            | II                           |
| Meantime between failure [MTBF] | 600000 h at 25 °C            |
| Status LED                      | 1 LED (green) output voltage |
| Width                           | 129 mm                       |
| Height                          | 97 mm                        |
| Depth                           | 30 mm                        |
| Net weight                      | 0.35 kg                      |

## Environment

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Product certifications                | EAC<br>IC<br>RoHS<br>KC<br>RCM                    |
| IP degree of protection               | IP20 conforming to IEC 62368-1                    |
| Ambient air temperature for operation | -30...70 °C (with power derating of 2.5 % per °C) |
| Ambient air temperature for storage   | -40...85 °C                                       |
| Relative humidity                     | 10...95 %                                         |
| Overvoltage category                  | Class I conforming to IEC 62368-1                 |
| Pollution degree                      | 2                                                 |
| Dielectric strength                   | 2000 V between input and ground                   |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 3.6 cm     |
| Package 1 Width              | 10.4 cm    |
| Package 1 Length             | 13.8 cm    |
| Package 1 Weight             | 400.0 g    |
| Unit Type of Package 2       | S03        |
| Number of Units in Package 2 | 42         |
| Package 2 Height             | 30.0 cm    |
| Package 2 Width              | 30.0 cm    |
| Package 2 Length             | 40.0 cm    |
| Package 2 Weight             | 16.869 kg  |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 504        |
| Package 3 Height             | 90.0 cm    |
| Package 3 Width              | 80.0 cm    |
| Package 3 Length             | 60.0 cm    |
| Package 3 Weight             | 210.928 kg |

# Environmental Data

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 >](#)

## Use Better

|  Materials and Substances |                                                               |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Packaging made with recycled cardboard                                                                     | No                                                            |
| Packaging without single use plastic                                                                       | No                                                            |
| EU RoHS Directive                                                                                          | Pro-active compliance<br>(Product out of EU RoHS legal scope) |
| REACH Regulation                                                                                           | <a href="#">REACH Declaration</a>                             |
| China RoHS Regulation                                                                                      | <a href="#">China RoHS declaration</a>                        |

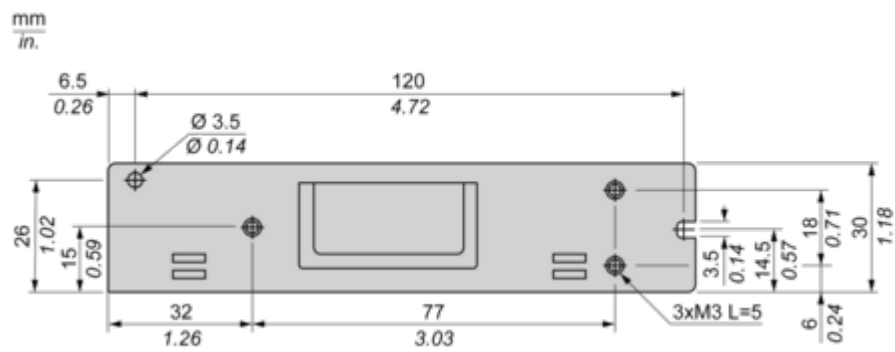
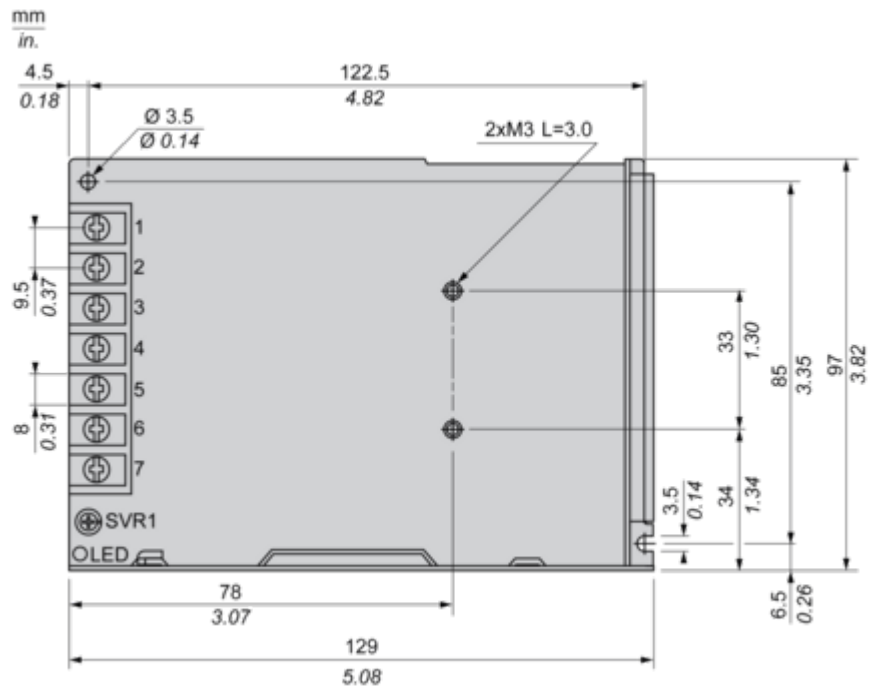
## Use Again

|  Repack and remanufacture |    |
|--------------------------------------------------------------------------------------------------------------|----|
| Take-back                                                                                                    | No |

Dimensions Drawings

Dimensions Drawings

Mechanical Dimensions

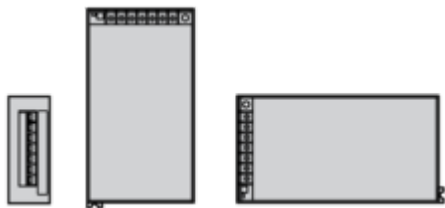


Mounting and Clearance

Mounting and Clearance

---

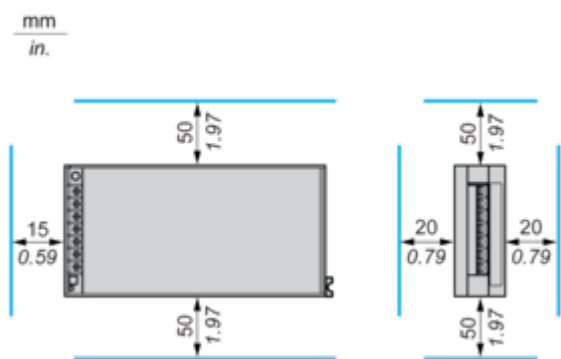
Vertical Mounting



Horizontal Mounting



Clearance

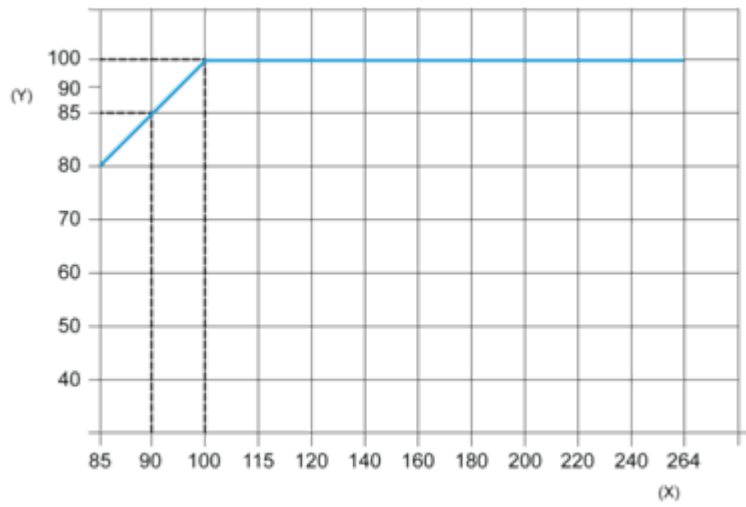


Performance Curves

Performance Curves

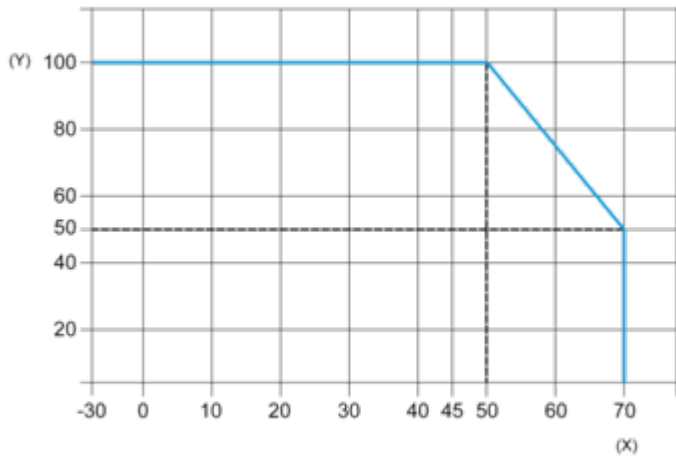
---

Static Characteristics



(y) Load %  
(x) Input voltage (VAC) 50/60 Hz

Derating Curve



(y) Load %  
(x) Ambient temperature (°C)