

## Product data sheet

### Characteristics

# ABL2REM24150K

single phase power supply, 100...240V input,  
24V DC output, 351W, 14,6A



### Main

|                             |                                                                            |
|-----------------------------|----------------------------------------------------------------------------|
| Range of product            | Easy Modicon ABL2                                                          |
| Product or component type   | Power supply                                                               |
| Power supply type           | Regulated switch mode                                                      |
| Rated power in W            | 351 W                                                                      |
| Main Input Voltage          | 100...120 V AC single phase<br>200...240 V                                 |
| Output voltage              | 24 V DC                                                                    |
| Power supply output current | 14.6 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            | 90...132 V<br>180...264 V                                                                                                                                                                        |
| Network frequency               | 47...63 Hz                                                                                                                                                                                       |
| Inrush current                  | 60 A at 100...120 V AC<br>60 A at 200...240 V AC                                                                                                                                                 |
| Cos phi                         | 0.5                                                                                                                                                                                              |
| Efficiency                      | 87 %                                                                                                                                                                                             |
| Power dissipation in W          | 52.4 W                                                                                                                                                                                           |
| Current consumption             | 3.3 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                    | >= 12 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<br>Thermal |
| Connections - terminals         | For ground connection: screw type terminals, connection capacity: 1 x 4 mm <sup>2</sup><br>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                                                                                                                                                                                           |
| Output coupling                 | Series                                                                                                                                                                                           |
| Overvoltage category            | II                                                                                                                                                                                               |
| Meantime between failure [MTBF] | 600000 h at 25 °C                                                                                                                                                                                |
| Status LED                      | 1 LED (green) output voltage                                                                                                                                                                     |
| Width                           | 215 mm                                                                                                                                                                                           |
| Height                          | 115 mm                                                                                                                                                                                           |
| Depth                           | 30 mm                                                                                                                                                                                            |
| Net weight                      | 0.79 kg                                                                                                                                                                                          |

## Environment

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Product certifications                | EAC[RETURN]IC[RETURN]RoHS[RETURN]KC[RETURN]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                   |

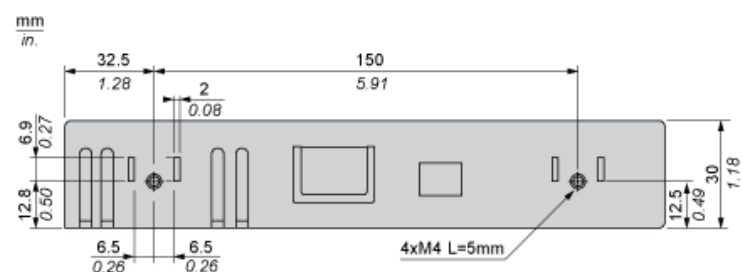
## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 3.600 cm   |
| Package 1 Width              | 12.500 cm  |
| Package 1 Length             | 22.300 cm  |
| Package 1 Weight             | 875.000 g  |
| Unit Type of Package 2       | S03        |
| Number of Units in Package 2 | 16         |
| Package 2 Height             | 30.000 cm  |
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 14.420 kg  |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 128        |
| Package 3 Height             | 75.000 cm  |
| Package 3 Width              | 60.000 cm  |
| Package 3 Length             | 80.000 cm  |
| Package 3 Weight             | 123.360 kg |

## Offer Sustainability

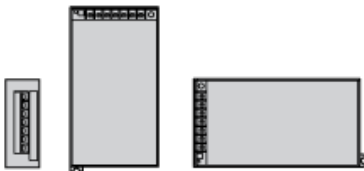
|                            |                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           |  <a href="#">REACH Declaration</a>      |
| REACH free of SVHC         | Yes                                                                                                                        |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                 |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a> |
| RoHS exemption information |  Yes                                    |

## Mechanical Dimensions



Mounting and Clearance

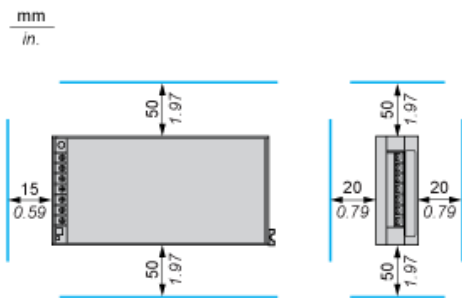
Vertical Mounting



Horizontal Mounting

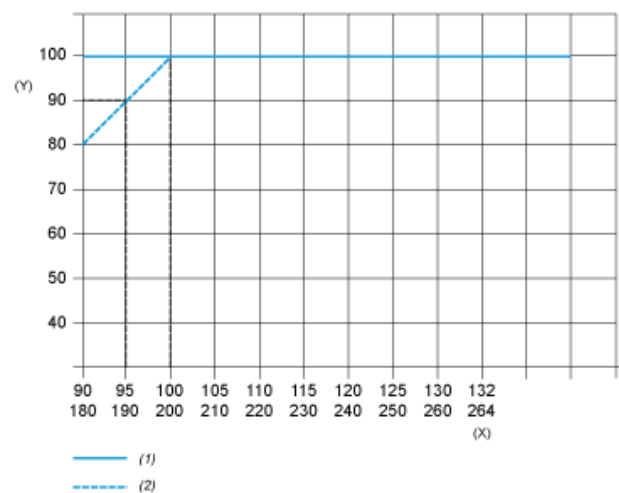


Clearance



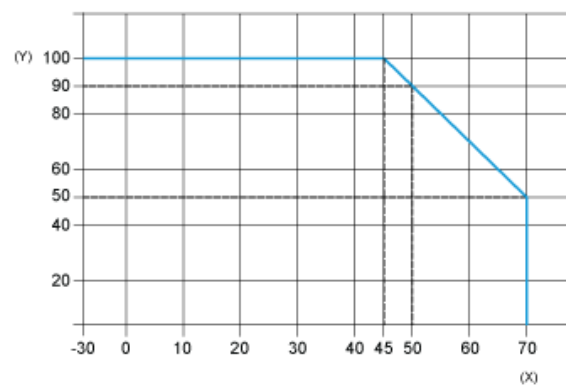
## Performance Curves

### Static Characteristics



- (1) 180 - 264 VAC  
(2) 90 - 132 VAC  
(y) Load %  
(x) Input voltage (VAC) 50/60 Hz

### Derating Curve



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