

# Product data sheet

Specifications



## Isolated analog converter, Harmony Analog, 0...15A current to 0...10V or 4...20mA

RMCA61BD

### Main

|                           |   |
|---------------------------|---|
| Range of product          | Harmony Analog  |
| Product or component type | Voltage/current converter   |
| Analogue input type       | Current 0...1.5 A AC/DC 50/60 Hz<br>Current 0...15 A AC/DC 50/60 Hz<br>Current 0...5 A AC/DC 50/60 Hz                                     |
| Analogue output type      | Current 0...20 mA $\leq$ 500 Ohm by cabling<br>Current 4...20 mA $\leq$ 500 Ohm by cabling<br>Voltage 0...10 V $\geq$ 100 kOhm by cabling |

### Complementary

|                                  |   |
|----------------------------------|---|
| Protection type                  | Reverse polarity protection on output<br>Short-circuit protection on output<br>Overvoltage protection on output (+/- 30 V)                |
| abnormal analogue output voltage | -15...0 V no input or input wire broken   |
| abnormal analogue output current | -30...0 mA, output selected 0...20 mA no input or input wire broken<br>4...30 mA, output selected 4...20 mA no input or input wire broken |
| [Us] rated supply voltage        | 24 V DC +/- 20 %, isolated  |
| Current consumption              | $\leq$ 70 mA for voltage output<br>$\leq$ 90 mA for current output  |
| Local signalling                 | LED (green) for power ON  |
| tightening torque                | 0.6...1.1 N.m   |
| Marking                          | CE  |
| Surge withstand                  | 0.5 kV during 1.2/50 $\mu$ s conforming to IEC 61000-4-5  |
| [Ui] rated insulation voltage    | 2 kV  |
| Fixing mode                      | By screws (mounting plate)<br>Clip-on (35 mm symmetrical DIN rail)  |
| Safety reliability data          | B10d = 22108<br>MTTFd = 23.9 years  |
| Net weight                       | 0.15 kg   |

### Environment

|                        |   |
|------------------------|---|
| Standards              | IEC 60947-1<br>IEC 60584-1                                    |
| Product certifications | CSA<br>UL<br>GL   |
| Fire resistance        | 850 °C conforming to IEC 60695-2-1<br>850 °C conforming to UL |

|  |  |
|--|--|
| <b>Shock resistance</b>                      | 50 gn for 11 ms conforming to IEC 60068-2-27   |
| <b>Vibration resistance</b>                  | 5 gn (f= 10...100 Hz) conforming to IEC 60068-2-6  |
| <b>Resistance to electrostatic discharge</b> | 6 kV (in contact) conforming to IEC 61000-4-2 level 3<br>8 kV (in air) conforming to IEC 61000-4-2 level 3 |
| <b>Resistance to fast transients</b>         | 1 kV (on input-output) conforming to IEC 61000-4-4<br>2 kV (on power supply) conforming to IEC 61000-4-4   |
| <b>Disturbance radiated/conducted</b>        | CISPR 11<br>CISPR 22 group 1 - class B   |
| <b>Ambient air temperature for storage</b>   | -40...85 °C  |
| <b>Ambient air temperature for operation</b> | 0...50 °C mounting side by side<br>0...60 °C 2 cm spacing  |
| <b>Pollution degree</b>                      | 2 conforming to IEC 60664-1  |

## Packing Units

|                                     |            |
|-------------------------------------|------------|
| <b>Unit Type of Package 1</b>       | PCE        |
| <b>Number of Units in Package 1</b> | 1          |
| <b>Package 1 Height</b>             | 8.400 cm   |
| <b>Package 1 Width</b>              | 4.700 cm   |
| <b>Package 1 Length</b>             | 8.000 cm   |
| <b>Package 1 Weight</b>             | 175.000 g  |
| <b>Unit Type of Package 2</b>       | S02        |
| <b>Number of Units in Package 2</b> | 33         |
| <b>Package 2 Height</b>             | 15.000 cm  |
| <b>Package 2 Width</b>              | 30.000 cm  |
| <b>Package 2 Length</b>             | 40.000 cm  |
| <b>Package 2 Weight</b>             | 6.100 kg   |
| <b>Unit Type of Package 3</b>       | P06        |
| <b>Number of Units in Package 3</b> | 528        |
| <b>Package 3 Height</b>             | 75.000 cm  |
| <b>Package 3 Width</b>              | 60.000 cm  |
| <b>Package 3 Length</b>             | 80.000 cm  |
| <b>Package 3 Weight</b>             | 106.000 kg |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|



## 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 >](#)

### Environmental footprint

|                                  |     |
|----------------------------------|-----|
| Total lifecycle Carbon footprint | 117 |
|----------------------------------|-----|

## Use Better

### Materials and Substances

|  |     |
|--|-----|
| Packaging made with recycled cardboard | Yes |
|--|-----|

|                                      |     |
|--------------------------------------|-----|
| Packaging without single use plastic | Yes |
|--------------------------------------|-----|

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number

A23b5c8f-6893-4fd3-af99-564158dac76

California proposition 65

**WARNING:** This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

|                                 |   |
|---------------------------------|---|
| End of life manual availability | <a href="#">End of Life Information</a> |
|---------------------------------|---|

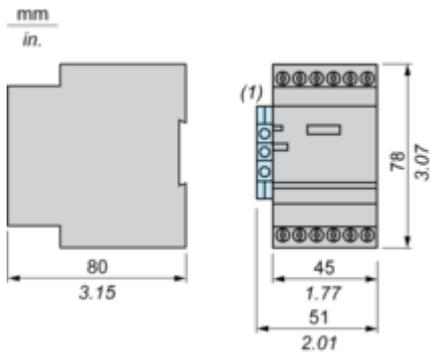
|           |    |
|-----------|----|
| Take-back | No |
|-----------|----|

Dimensions Drawings

Analog Interface: Voltage/Current Converter

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Dimensions



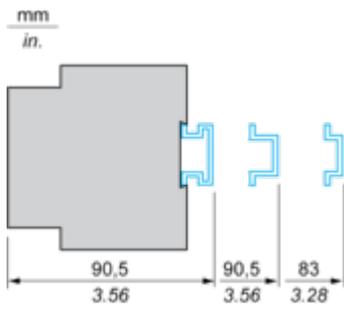
(1) Terminal block AB1TP435U or AB1RRNTP435U2

Mounting and Clearance

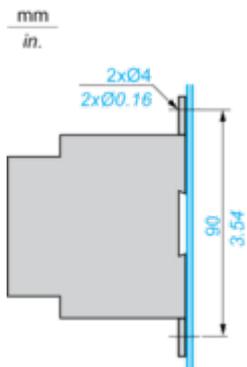
Mounting

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Mounting on Rails AM1•••••



Panel Mounting

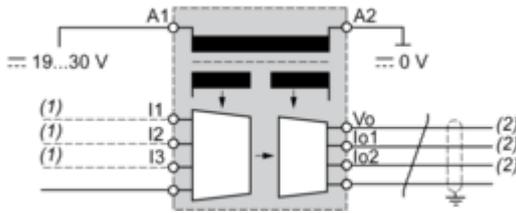


Connections and Schema

Analog Interface: Voltage/Current Converter

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Wiring Diagram



(1) Use 1 input only.

(2) Use 1 output only.

The input, output and power supply lines must be kept away from the power cables to avoid effects due to induced interference.

The supply, input and output cables must be shielded as indicated in the schemes and must be kept away from each other.

Technical Illustration

Dimensions

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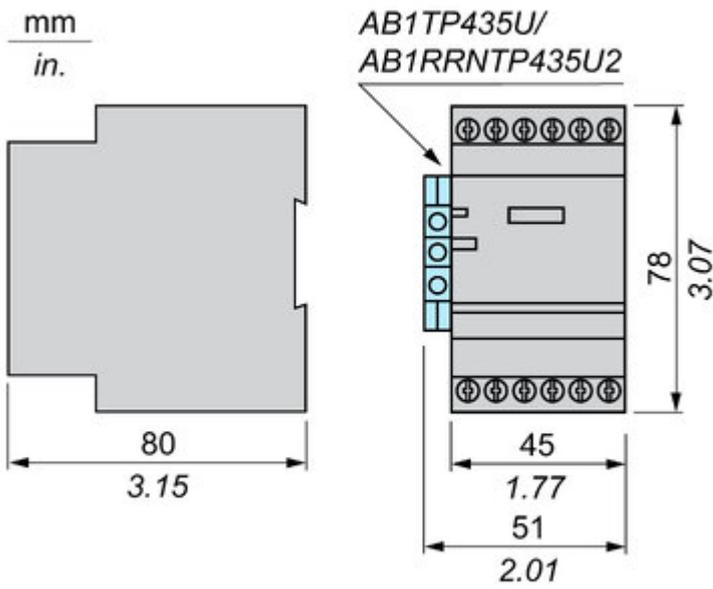


Image of product / Alternate images

Alternative

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