

Product data sheet

Specifications



converter module, modicon, 24W,
24 to 28.8V DC, 12V DC, 2A, for
regulated SMPS

ABL8DCC12020

Main

| | |
|-----------------------------|------------------|
| Range Of Product | Phaseo Universal |
| Product Or Component Type | Converter module |
| Rated Power In W | 24 W |
| Input Voltage | 24...28.8 V DC |
| Output Voltage | 12 V DC |
| Power Supply Output Current | 2 A |

Complementary

| | |
|--------------------------|--|
| Input Voltage Limits | 22...30 V |
| Efficiency | 82 % |
| Power Dissipation In W | 4 W |
| Input Protection Type | Against reverse polarity |
| Output Voltage Limits | 7...15 V |
| Line And Load Regulation | 1...3 % |
| Residual Ripple | <= 100 mV |
| Output Protection Type | Against overload, protection technology: automatic reset Against overvoltage, protection technology: tripping if U > 7.8 V, automatic reset Against short-circuits, protection technology: automatic reset |
| Connections - Terminals | For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 4 mm ² AWG 24...AWG 10 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 4 mm ² AWG 24...AWG 10 |
| Fixing Mode | By clips on 35 mm symmetrical DIN rail, operating position: horizontal By clips on 35 mm symmetrical DIN rail, operating position: vertical |
| Operating Altitude | 2000 m |
| Name Of Test | Induced electromagnetic field conforming to IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to IEC 61000-4-5 level 2 Conducted/radiated emissions conforming to EN 55022 class B Electrostatic discharges conforming to IEC 61000-4-2 Emission conforming to IEC 61000-6-3 |
| Local Signalling | 1 LED (green) for output voltage (> 6 V) |
| Net Weight | 0.3 kg |

Environment

| | |
|-------------------------|------------------------------|
| Ip Degree Of Protection | IP20 conforming to IEC 60529 |
|-------------------------|------------------------------|

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

| | |
|---------------------------------------|--|
| Ambient Air Temperature For Operation | -25...60 °C |
| Ambient Air Temperature For Storage | -40...85 °C |
| Relative Humidity | 0...90 % during operation 0...95 % during storage |
| Overvoltage Category | Class 3 |
| Vibration Resistance | 2 gn (f= 11.9...150 Hz) conforming to IEC 61131-2 3.5 mm (f= 3...11.9 Hz) conforming to IEC 61131-2 |
| Dielectric Strength | 500 V between input and ground 500 V between input and output 500 V between output and ground |
| Product Certifications | RCM EAC cCSAus UL |
| Environmental Characteristic | EMC conforming to EN 50081-1 EMC conforming to IEC 61000-6-3 EMC conforming to IEC 61000-6-2 Safety conforming to IEC 60950-1 Safety conforming to IEC 61204 |

Packing Units

| | |
|------------------------------|-----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 6.5 cm |
| Package 1 Width | 14.5 cm |
| Package 1 Length | 16.5 cm |
| Package 1 Weight | 601.0 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 11 |
| Package 2 Height | 30 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 7.071 kg |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 88 |
| Package 3 Height | 75.0 cm |
| Package 3 Width | 40.0 cm |
| Package 3 Length | 80.0 cm |
| Package 3 Weight | 77.888 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-CO₂ 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

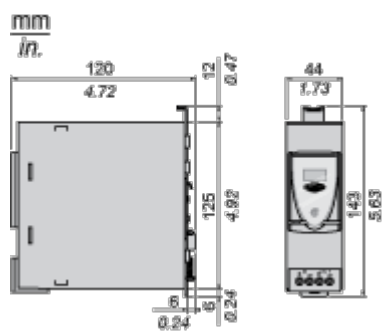
Certifications & Standards

| | |
|---------------------------|---|
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

Dimensions Drawings

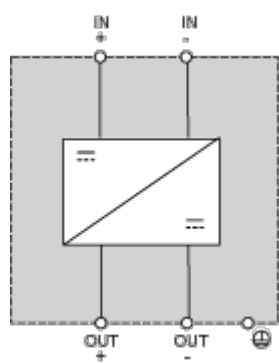
Converter Module

Dimensions



Connections and Schema

Internal Wiring Diagram



Scheme of Use with ABL4 Power Supplies

