# Product data sheet

Specifications



## power supply module, Modicon X80, 24 to 48V DC, 31.2W

BMXCPS3020

**Product availability: Stock - Normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range of Product** | Modicon X80 |
| **Product or Component Type** | Power supply module |
| **backplane compatibility** | Not compatible with BMEXBP..02 |
| **Primary Voltage** | 24...48 V isolated |
| **Supply circuit type** | DC |
| **Secondary power** | 15 W 3.3 V DC I/O module logic power supply<br>31.2 W 24 V DC I/O module power supply and processor |

## Complementary

| | |
|---|---|
| **Primary voltage limit** | 18...62.4 V |
| **Input current** | 0.83 A 48 V<br>1.65 A 24 V |
| **Inrush current** | 30 A 24 V<br>60 A 48 V |
| **I²t on activation** | 1 A².s 24 V<br>3 A².s 48 V |
| **It on activation** | 0.2 A.s 24 V<br>0.3 A.s 48 V |
| **MTBF reliability** | 4600000 H |
| **Protection type** | Internal fuse not accessible primary circuit<br>Overload protection secondary circuit, 24 V sensor power supply<br>Overvoltage protection secondary circuit, 24 V sensor power supply<br>Short-circuit protection secondary circuit, 24 V sensor power supply |
| **Current at secondary voltage** | 1.3 A 24 V DC I/O module power supply and processor<br>4.5 A 3.3 V DC I/O module logic power supply |
| **Maximum power dissipation in W** | 8.5 W |
| **Status LED** | 1 LED (Green) rack voltage OK |
| **Control Type** | RESET push-button cold restart |
| **Electrical connection** | 1 connector 2 alarm relay<br>1 connector 5 line supply, protective earth |
| **Maximum cable distance between devices** | 32.8 ft (10 m) power supply cable copper 0.002 in² (1.5 mm²)<br>49.2 ft (15 m) power supply cable copper 0.004 in² (2.5 mm²) |
| **Insulation resistance** | >= 10 MOhm primary/ground<br>>= 10 MOhm primary/secondary |
| **Net Weight** | 0.75 lb(US) (0.34 kg) |

## Environment

| | |
|---|---|
| **Immunity to microbreaks** | 1 ms |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

| | |
|---|---|
| **Dielectric strength** | 1500 V primary/ground<br>1500 V primary/secondary |
| **Vibration resistance** | 3 gn |
| **Shock resistance** | 30 gn |
| **IP Degree of Protection** | IP20 |
| **Directives** | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility |
| **Ambient Air Temperature for Storage** | -40…185 °F (-40…85 °C) |
| **Ambient Air Temperature for Operation** | 32…140 °F (0…60 °C) |
| **Relative humidity** | 5…95 % 131 °F (55 °C) without condensation |
| **Protective treatment** | TC |
| **Operating altitude** | 0...6561.68 ft (0...2000 m)<br>2000...5000 m with derating factor |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1PC3418160 |
| **Discount Schedule** | PC34 |
| **GTIN** | 3595863908985 |
| **Returnability** | Yes |
| **Country of origin** | US |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 5.197 in (13.200 cm) |
| **Package 1 Width** | 6.102 in (15.500 cm) |
| **Package 1 Length** | 6.102 in (15.500 cm) |
| **Package weight(Lbs)** | 18.307 oz (519.000 g) |
| **Unit Type of Package 2** | S04 |
| **Number of Units in Package 2** | 12 |
| **Package 2 Height** | 11.811 in (30.000 cm) |
| **Package 2 Width** | 15.748 in (40.000 cm) |
| **Package 2 Length** | 23.622 in (60.000 cm) |
| **Package 2 Weight** | 16.266 lb(US) (7.378 kg) |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 48 |
| **Package 3 Height** | 29.528 in (75.000 cm) |
| **Package 3 Width** | 23.622 in (60.000 cm) |
| **Package 3 Length** | 31.496 in (80.000 cm) |
| **Package 3 Weight** | 83.776 lb(US) (38.000 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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 | **457 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **6 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.1 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.2 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **451 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.7 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **41745a42-b2d7-4938-80f8-0738cea8ed1d** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |
| 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** |

## Use Again

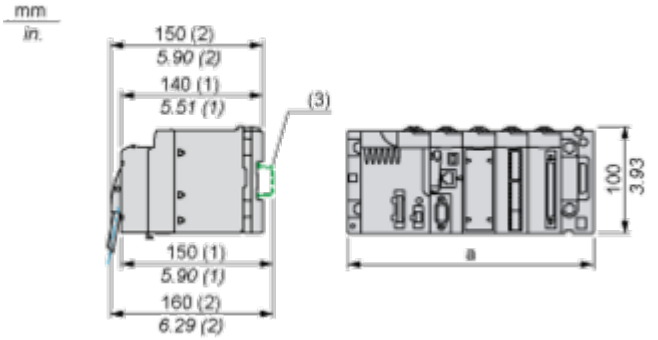
### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **1** |
| Circularity Profile | **End of Life Information** |
| Take-back | **No** |

## Dimensions Drawings

### Modules Mounted on Racks

### Dimensions

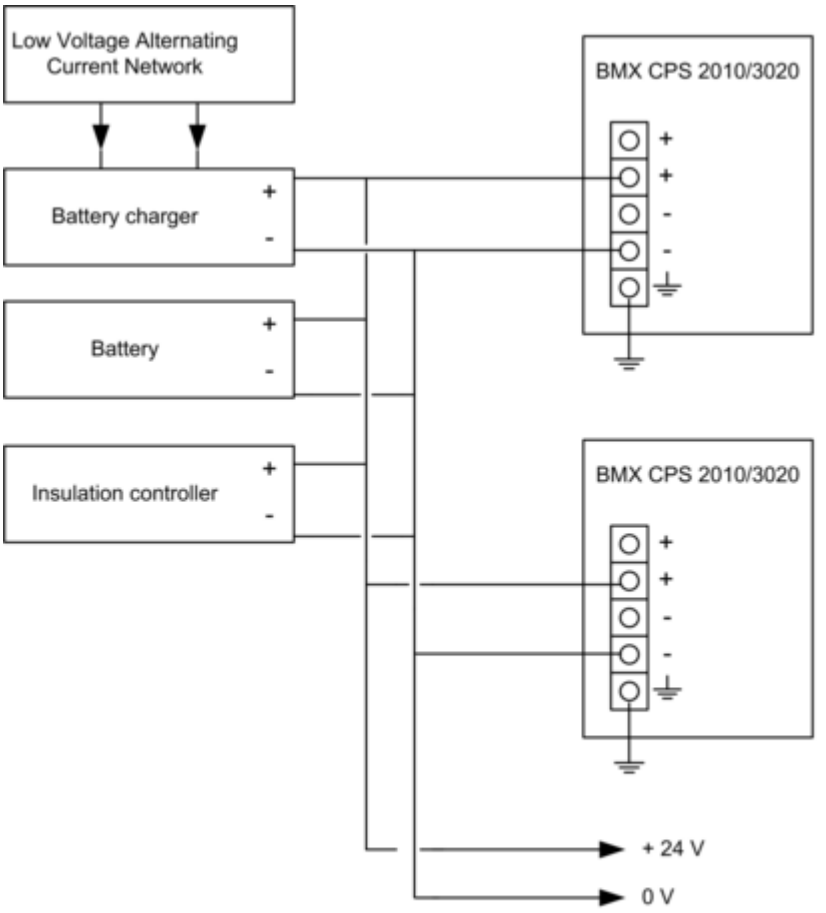



**(1)** With removable terminal block (cage, screw or spring).
**(2)** With FCN connector.
**(3)** On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

| Rack references | a in mm | a in in. |
|---|---|---|
| BMXXBP0400 and BMXXBP0400H | 242.4 | 09.54 |
| BMXXBP0600 and BMXXBP0600H | 307.6 | 12.11 |
| BMXXBP0800 and BMXXBP0800H | 372.8 | 14.68 |
| BMXXBP1200 and BMXXBP1200H | 503.2 | 19.81 |

Connections and Schema

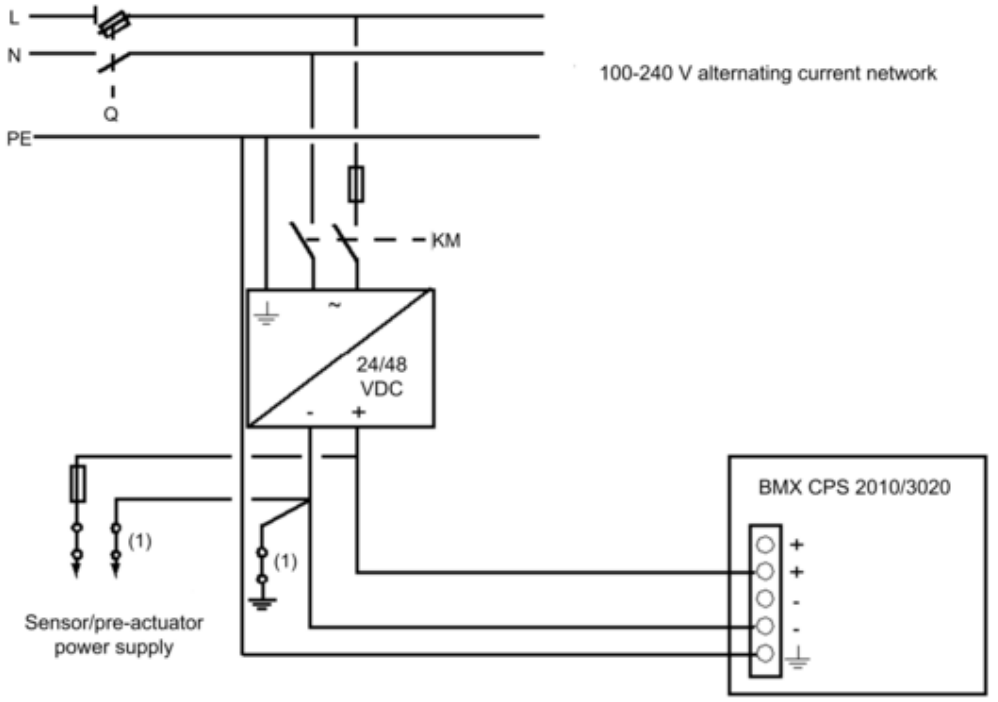
**Connection of Direct Current Power Supply Modules to a 24 Vdc or 48 Vdc Floating Direct Current Network**




24 VDC floating network for the power supply of sensors, actuators and input/out modules.

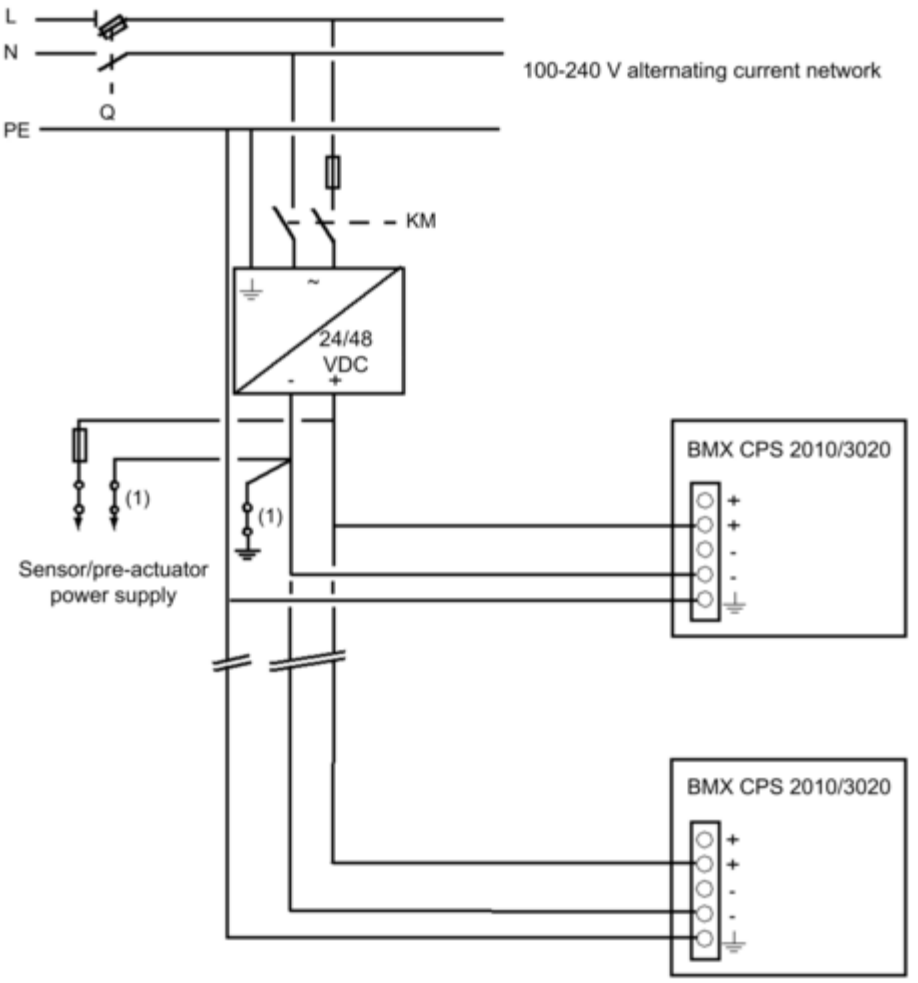
## Connection of Direct Current Power Supply Modules to an Alternating Current Network

### Connection of a Single Rack PLC Station




**Q** General isolator
**KM** Line contactor or circuit breaker
**(1)** Insulation connector bar for locating grounding errors

### Connection of a Multi-Rack PLC Station



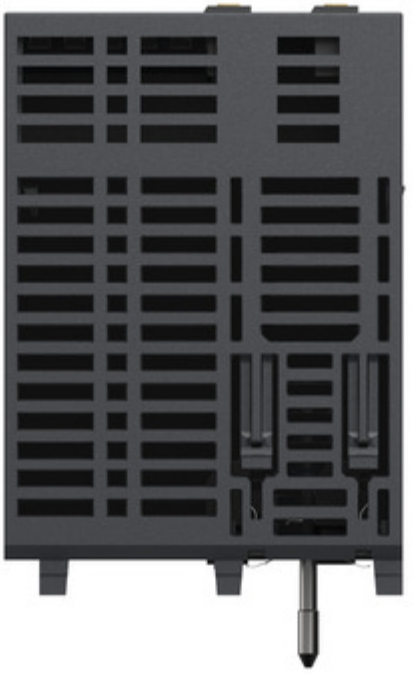

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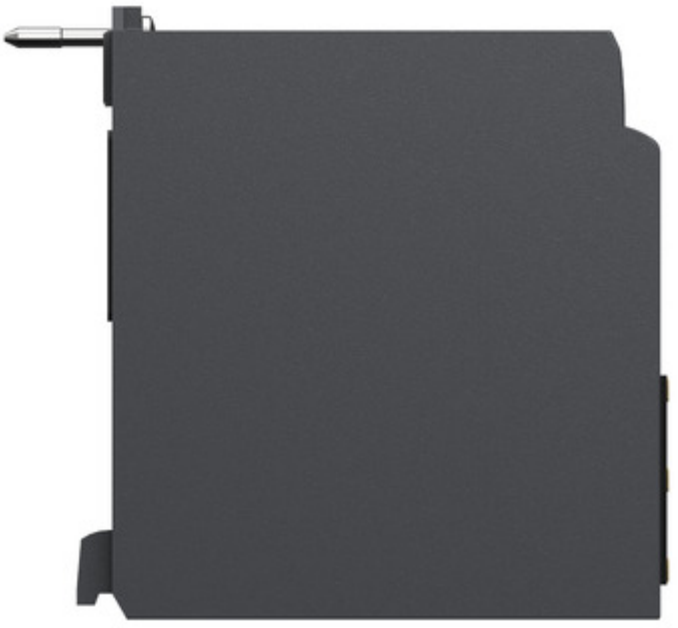
Image of product / Alternate images

**Alternative**

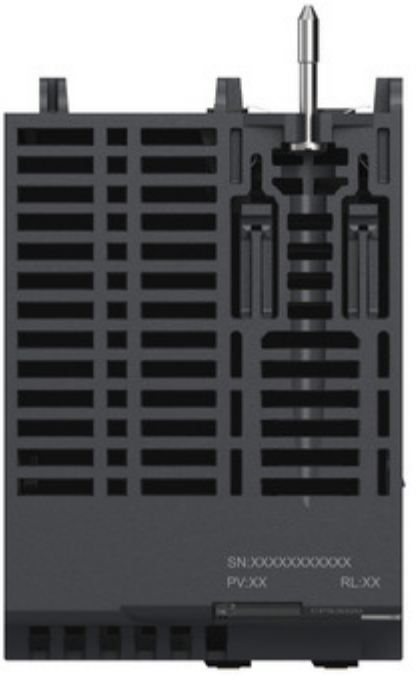







Schneider
Electric
Modicon
BMXCPS3020
HIGH POWER ISOL 24TO48
VDC POWER SUPPLY
DOM : XXXX


SN:XXXXXXXXXXX
PV:XX
RL:XX