# Product data sheet

Specifications

## power supply module X80 - 24 V DC - 16.8 W

BMXCPS2010

## Main

| | |
|---|---|
| **Range of product** | Modicon X80 |
| **Product or component type** | Power supply module |
| **Backplane compatibility** | Not compatible with BMEXBP..02 |
| **Primary voltage** | 24 V isolated |
| **Supply circuit type** | DC |
| **Secondary power** | 16.8 W 24 V DC I/O module power supply and processor<br>8.3 W 3.3 V DC I/O module logic power supply |

## Complementary

| | |
|---|---|
| **Primary voltage limit** | 18...31.2 V |
| **Input current** | 1 A 24 V |
| **Inrush current** | 30 A 24 V |
| **I²t on activation** | 0.6 A².s 24 V |
| **It on activation** | 0.15 A.s 24 V |
| **Protection type** | Internal fuse not accessible for primary circuit<br>Overload protection for secondary circuit, 24 V sensor power supply<br>Overvoltage protection for secondary circuit, 24 V sensor power supply<br>Short-circuit protection for secondary circuit, 24 V sensor power supply |
| **Current at secondary voltage** | 0.7 A 24 V DC I/O module power supply and processor<br>2.5 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 pin(s)alarm relay<br>1 connector 5 pin(s)line supply, protective earth, 24 V DC input sensor |
| **Maximum cable distance between devices** | 20 m power supply cable copper 1.5 mm²<br>30 m power supply cable copper 2.5 mm² |
| **Insulation resistance** | >= 10 MOhm primary/ground<br>>= 10 MOhm primary/secondary |
| **Net weight** | 0.29 kg |

## Environment

| | |
|---|---|
| **Immunity to microbreaks** | 1 ms |
| **Dielectric strength** | 1500 V primary/ground |

| | |
|---|---|
| | 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…85 °C |
| **Ambient air temperature for operation** | 0…60 °C |
| **Relative humidity** | 5…95 % at 55 °C without condensation |
| **Protective treatment** | TC |
| **Operating altitude** | 0...2000 m<br>2000...5000 m with derating factor |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 13.238 cm |
| **Package 1 Width** | 15.451 cm |
| **Package 1 Length** | 15.597 cm |
| **Package 1 Weight** | 420.0 g |
| **Unit Type of Package 2** | S04 |
| **Number of Units in Package 2** | 12 |
| **Package 2 Height** | 30 cm |
| **Package 2 Width** | 40 cm |
| **Package 2 Length** | 60 cm |
| **Package 2 Weight** | 6.31 kg |
| **Package 3 Height** | 75 cm |

## Offer Sustainability

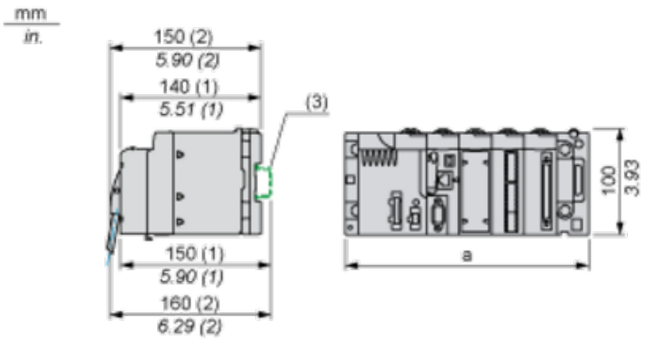
| | |
|---|---|
| **Sustainable offer status** | Green Premium product |
| **REACh Regulation** | REACh Declaration |
| **EU RoHS Directive** | Pro-active compliance (Product out of EU RoHS legal scope)<br>EU RoHS Declaration |
| **Mercury free** | Yes |
| **RoHS exemption information** | Yes |
| **China RoHS Regulation** | China RoHS declaration |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |
| **WEEE** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| **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 |

## Contractual warranty

| | |
|---|---|
| **Warranty** | 18 months |

## Modules Mounted on Racks

### Dimensions



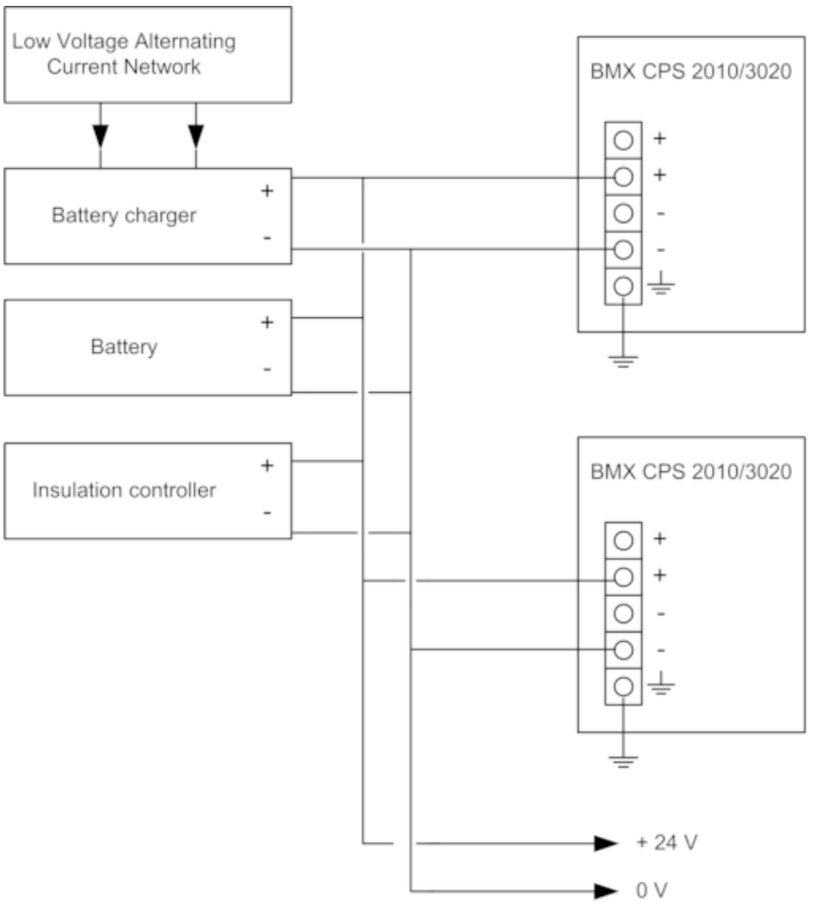

**(1)** With removable terminal block (cage, screw or spring).

**(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 |

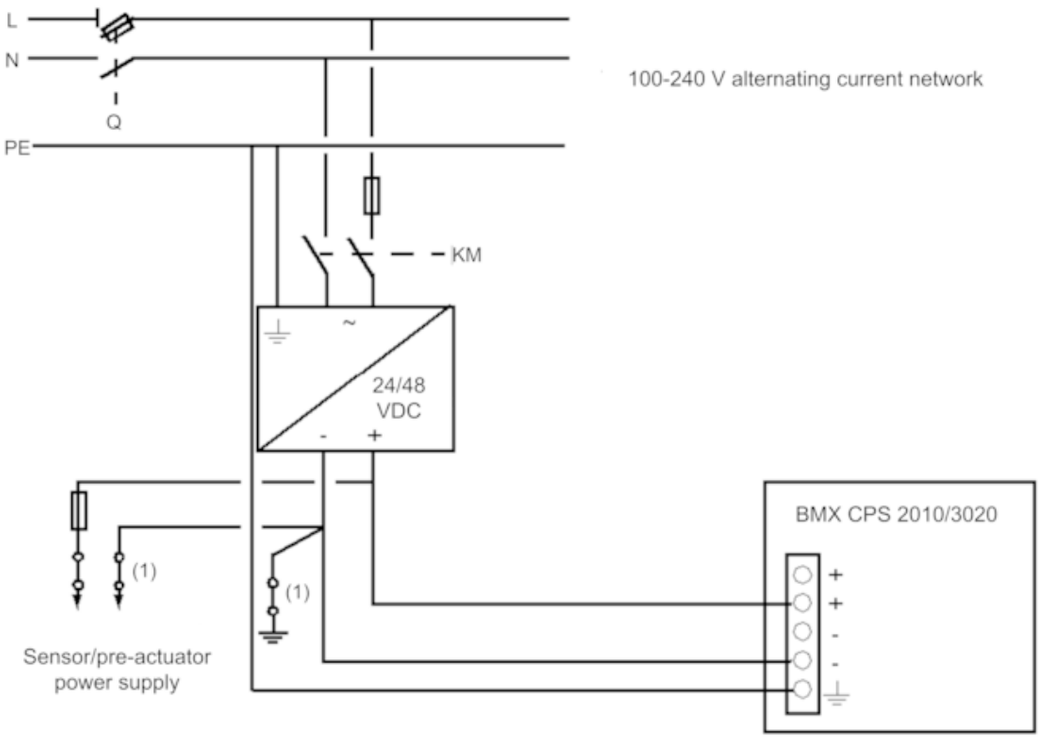
## Connection of Direct Current Power Supply Modules to a 24 Vdc or 48 Vdc Floating Direct Current Network




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

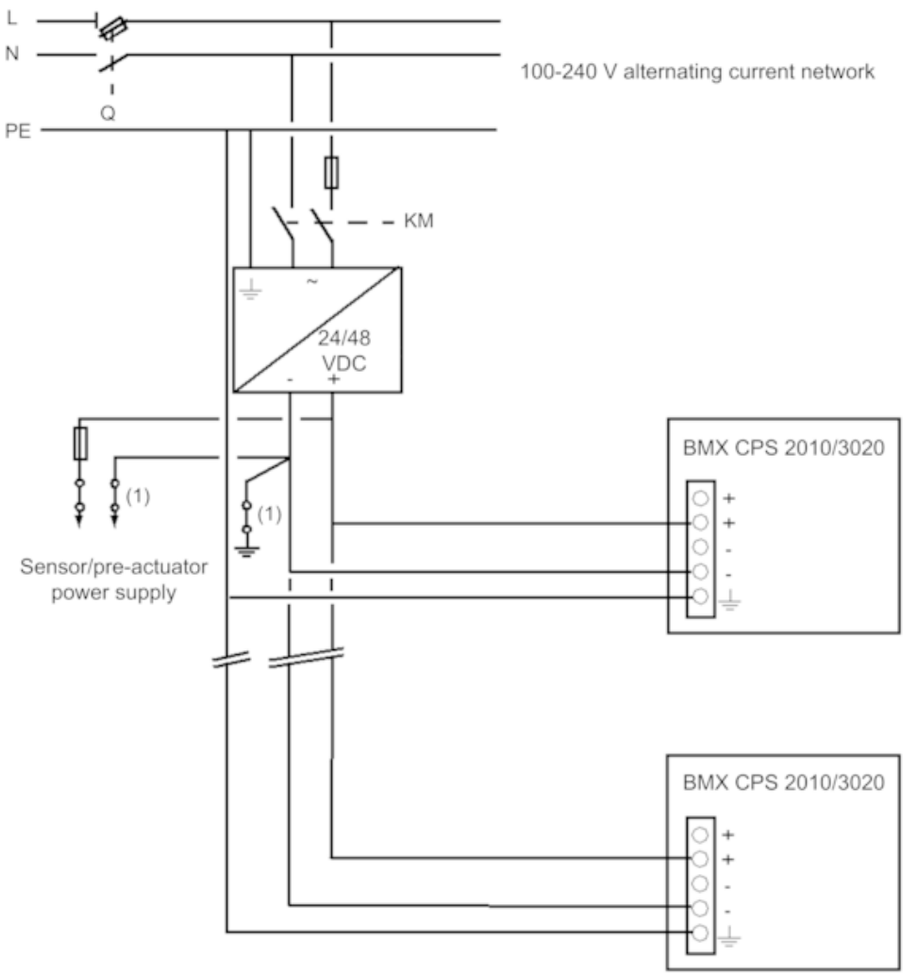



**Q** General isolator

**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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