

# 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 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 1.65 A 24 V
Inrush current	30 A 24 V 60 A 48 V
I <sup>2</sup> t on activation	1 A <sup>2</sup> .s 24 V 3 A <sup>2</sup> .s 48 V
I <sub>t</sub> on activation	0.2 A.s 24 V 0.3 A.s 48 V
MTBF reliability	4600000 H
Protection type	Internal fuse not accessible primary circuit Overload protection secondary circuit, 24 V sensor power supply Overvoltage protection secondary circuit, 24 V sensor power supply 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 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 1 connector 5 line supply, protective earth
Maximum cable distance between devices	32.8 ft (10 m) power supply cable copper 0.002 in <sup>2</sup> (1.5 mm <sup>2</sup> ) 49.2 ft (15 m) power supply cable copper 0.004 in <sup>2</sup> (2.5 mm <sup>2</sup> )
Insulation resistance	>= 10 MΩ primary/ground >= 10 MΩ primary/secondary
Product Weight	0.75 lb(US) (0.34 kg)

### Environment

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

<b>Immunity to microbreaks</b>	1 ms
<b>Dielectric strength</b>	1500 V primary/ground 1500 V primary/secondary
<b>Vibration resistance</b>	3 gn
<b>Shock resistance</b>	30 gn
<b>IP Degree of Protection</b>	IP20
<b>Directives</b>	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature for Operation</b>	32...140 °F (0...60 °C)
<b>Relative humidity</b>	5...95 % 131 °F (55 °C) without condensation
<b>Protective treatment</b>	TC
<b>Operating altitude</b>	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor

## Ordering and shipping details

<b>Category</b>	US1PC3418160
<b>Discount Schedule</b>	PC34
<b>GTIN</b>	3595863908985
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	5.20 in (13.200 cm)
<b>Package 1 Width</b>	6.10 in (15.500 cm)
<b>Package 1 Length</b>	6.10 in (15.500 cm)
<b>Package weight(Lbs)</b>	18.307 oz (519.000 g)
<b>Unit Type of Package 2</b>	S04
<b>Number of Units in Package 2</b>	12
<b>Package 2 Height</b>	11.81 in (30.000 cm)
<b>Package 2 Width</b>	15.75 in (40.000 cm)
<b>Package 2 Length</b>	23.62 in (60.000 cm)
<b>Package 2 Weight</b>	16.266 lb(US) (7.378 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	48
<b>Package 3 Height</b>	29.53 in (75.000 cm)
<b>Package 3 Width</b>	23.62 in (60.000 cm)
<b>Package 3 Length</b>	31.50 in (80.000 cm)
<b>Package 3 Weight</b>	83.776 lb(US) (38.000 kg)

## Contractual warranty

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**Warranty**

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

Carbon footprint (kg CO2 eq, Total Life cycle)	457
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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
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SCIP Number	41745a42-b2d7-4938-80f8-0738cea8ed1d
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REACH Regulation	<a href="#">REACH Declaration</a>
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California proposition 65	<b>WARNING:</b> 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 <a href="#">www.P65Warnings.ca.gov</a>
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## Use Again

### Repack and remanufacture

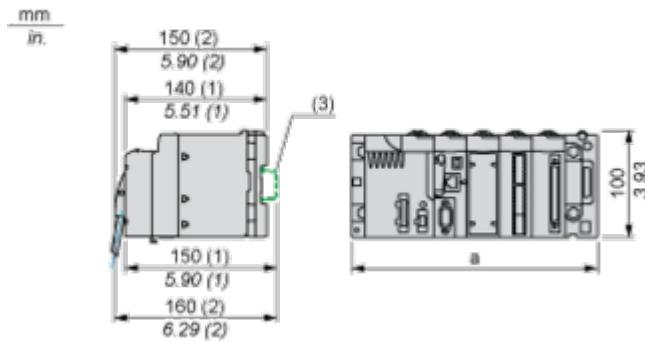
Circularity Profile	<a href="#">End of Life Information</a>
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Take-back	No
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## Dimensions Drawings

Modules Mounted on Racks

## Dimensions



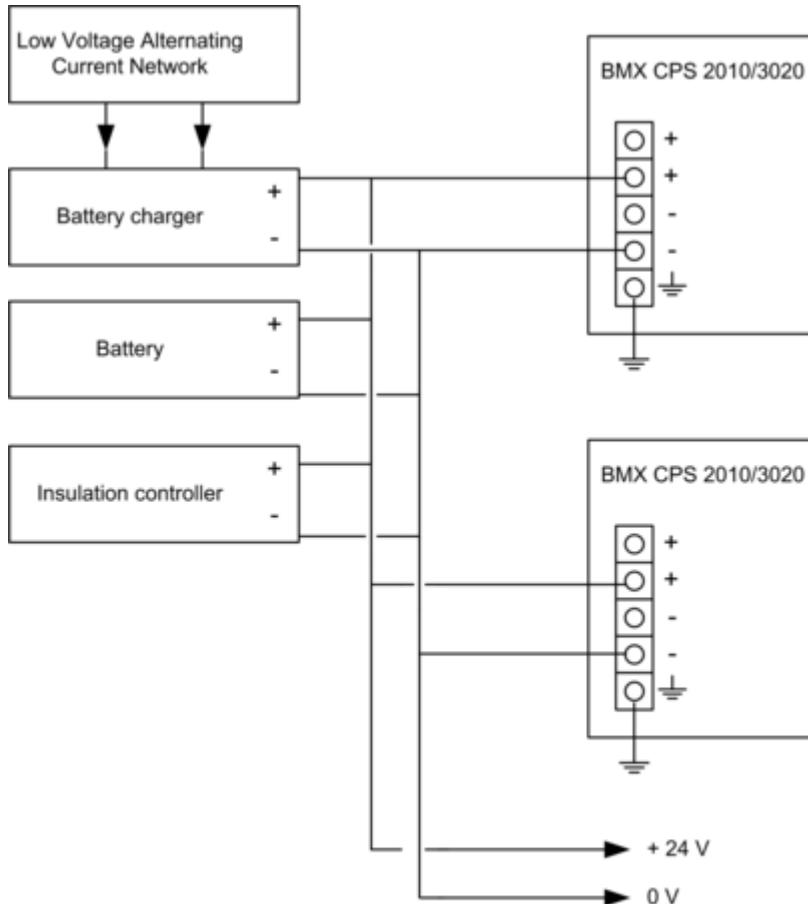
(1) With removable terminal block (cage, screw or spring).

(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

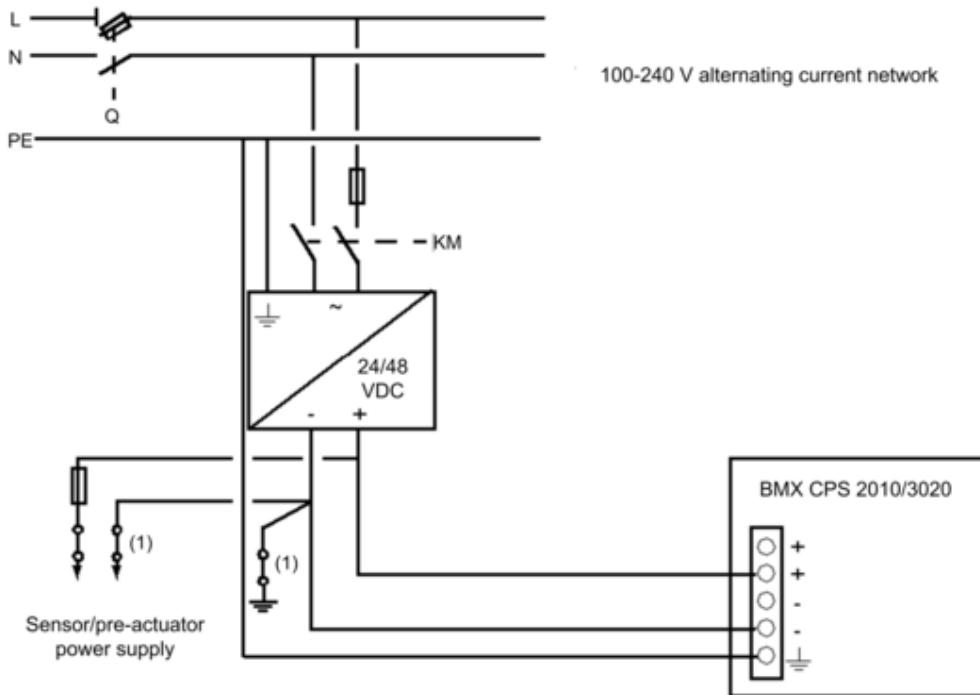
## Connections and Schema

**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

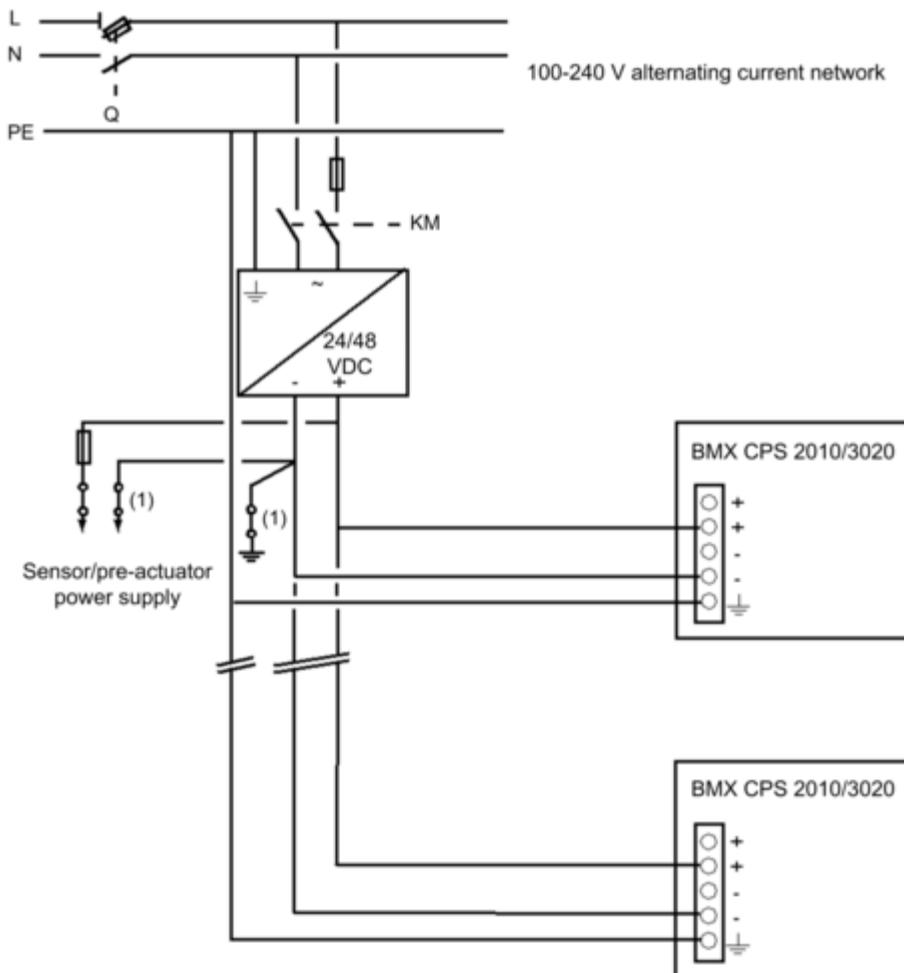


## Q General isolator

#### **KM** Line contactor or circuit breaker

### (1) Insulation connector bar for locating grounding errors

## Connection of a Multi-Rack PLC Station



**Q** General isolator

**KM** Line contactor or circuit breaker

(1) Insulation connector bar for locating grounding errors

Image of product / Alternate images

Alternative

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