

Product data sheet

Specifications



power supply module, Modicon X80, 24V DC, 16.8W

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 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
I ^t on activation	0.6 A ² .s 24 V
It on activation	0.15 A.s 24 V
MTBF reliability	4886000 H
Protection type	Internal fuse not accessible for primary circuit Overload protection for secondary circuit, 24 V sensor power supply Overvoltage protection for secondary circuit, 24 V sensor power supply 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 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 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 mm ² 30 m power supply cable copper 2.5 mm ²
Insulation resistance	>= 10 MOhm primary/ground >= 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 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 2000...5000 m with derating factor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.300 cm
Package 1 Width	13.000 cm
Package 1 Length	15.500 cm
Package 1 Weight	466.000 g
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	6.288 kg
Unit Type of Package 3	P06
Number of Units in Package 3	48
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	35.160 kg

Contractual warranty

Warranty	18 months
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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 456

Environmental Disclosure [Product Environmental Profile](#)

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 41745a42-b2d7-4938-80f8-0738cea8ed1d

REACH Regulation [REACH Declaration](#)

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

End of life manual availability [End of Life Information](#)

Take-back No

Dimensions Drawings

Modules Mounted on Racks

Dimensions



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

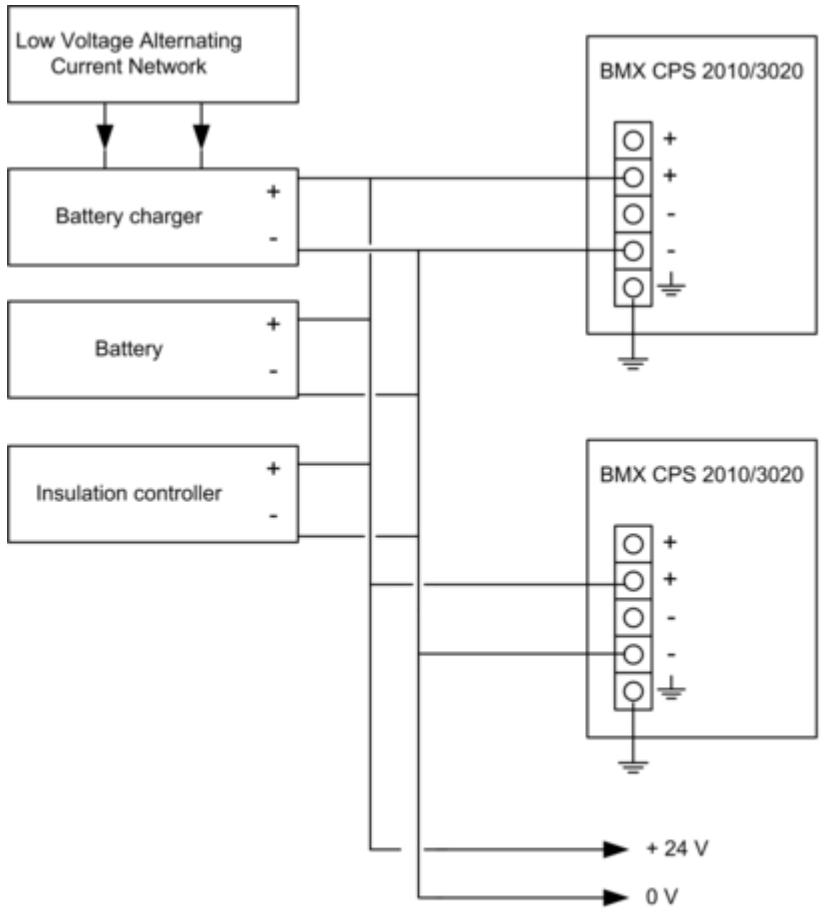
(2) With FCN connector.

(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

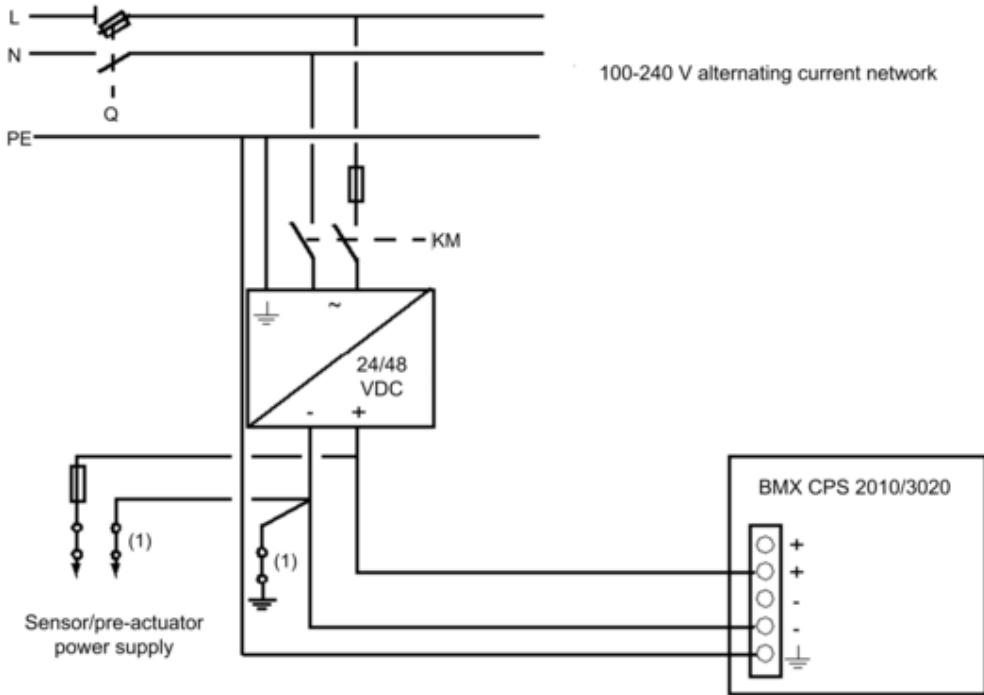
Connection of Direct Current Power Supply Modules to a 24 Vdc or 48 Vdc Floating Direct Current Network



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

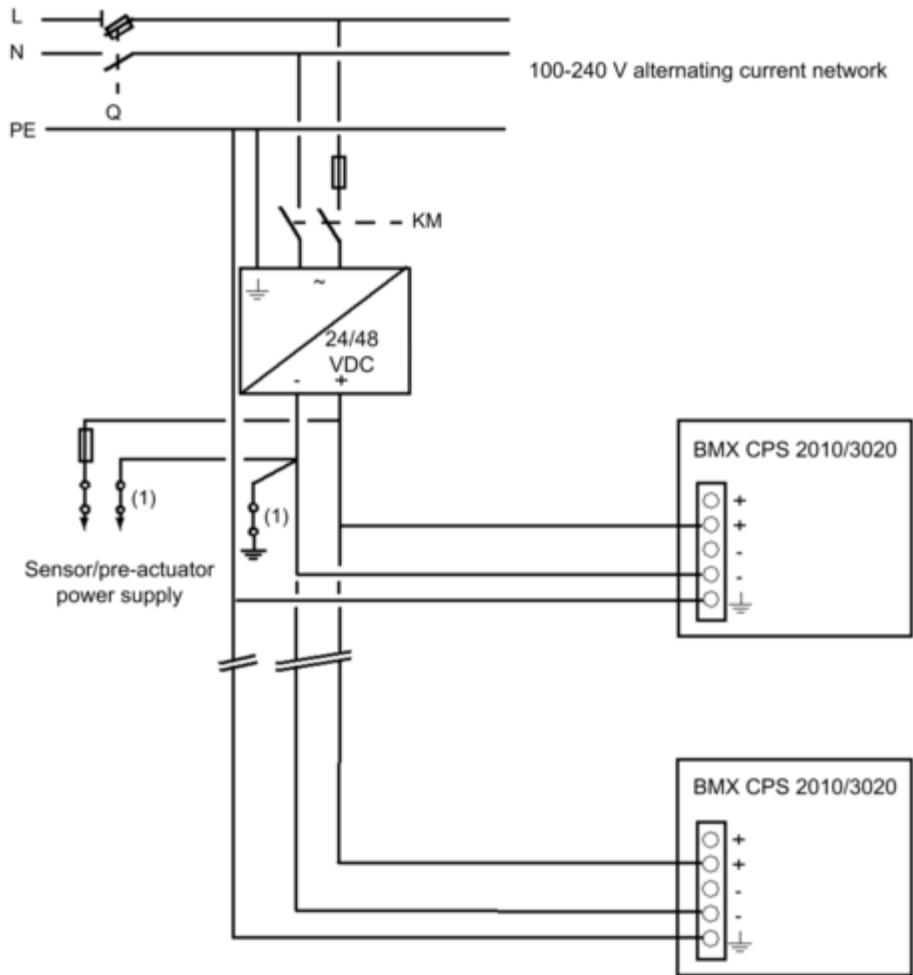
Connection of Direct Current Power Supply Modules to an Alternating Current Network

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



Q General isolator

KM Line contactor or circuit breaker

(1) Insulation connector bar for locating grounding errors

Image of product / Alternate images

Alternative

