

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

BMXCPS3020H

Main

Range of product	Modicon X80	
Product or component type	Power supply module	
backplane compatibility	Not compatible with BMEXBP02	
Product specific application	For severe environments	
Primary voltage	2448 V isolated	
Supply circuit type	DC	
Secondary power	15 W 3.3 V DC at 060 °C I/O module logic power supply 31.2 W 24 V DC at 060 °C I/O module power supply and processor 11.3 W 3.3 V DC at -2570 °C I/O module logic power supply 23.4 W 24 V DC at -2570 °C I/O module power supply and processor	

Complementary

Primary voltage limit	1862.4 V
Input current	0.83 A 48 V
	1.65 A 24 V
Inrush current	30 A 24 V
	60 A 48 V
I²t on activation	1 A².s 24 V
	3 A ² .s 48 V
It on activation	0.2 A.s 24 V
	0.3 A.s 48 V
MTBF reliability	4600000 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	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 pin(s)alarm relay
	1 connector 5 pin(s)line supply, protective earth
Maximum cable distance between	10 m power supply cable copper 1.5 mm ²
devices	15 m power supply cable copper 2.5 mm ²
Insulation resistance	>= 10 MOhm primary/ground
	>= 10 MOhm primary/secondary
Net weight	0.34 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 2014/34/EU - ATEX directive	
Product certifications	CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22	
Standards	IEC 61131-2 IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G IEC 60079-0	
Environmental characteristic	Gas resistant class Gx conforming to ISA S71.04 Gas resistant class 3C4 conforming to IEC 60721-3-3 Dust resistant class 3S4 conforming to IEC 60721-3-3 Sand resistant class 3S4 conforming to IEC 60721-3-3 Salt resistant level 2 conforming to IEC 68252 Mold growth resistant class 3B2 conforming to IEC 60721-3-3 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3 Hazardous location class I division 2	
Ambient air temperature for storage	-4085 °C	
Ambient air temperature for operation	-2570 °C	
Relative humidity	595 % at 55 °C without condensation	
Protective treatment	Conformal coating	
Operating altitude	02000 m 20005000 m with derating factor	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.8 cm
Package 1 Width	15.7 cm
Package 1 Length	15.9 cm
Package 1 Weight	485.0 g
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm

Package 2 Weight

6.767 kg

Contractual warranty

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.

How this information helps you >

⊘ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	457
Environmental Disclosure	Product Environmental Profile

Use Better

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
China RoHS Regulation	China RoHS declaration

Use Again

○ Repack and remanufacture	
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

Take-back

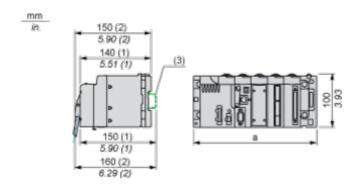
No

BMXCPS3020H

Dimensions Drawings

Modules Mounted on Racks

Dimensions



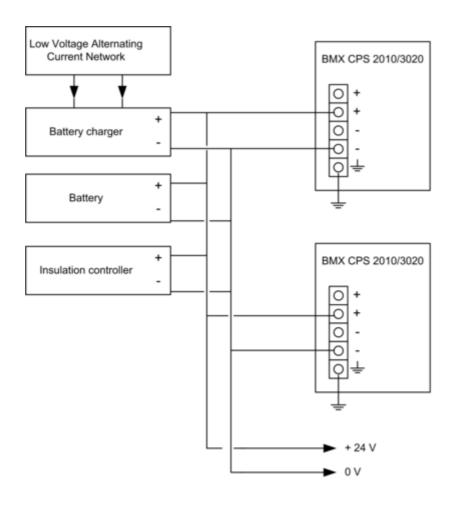
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

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Connections and Schema

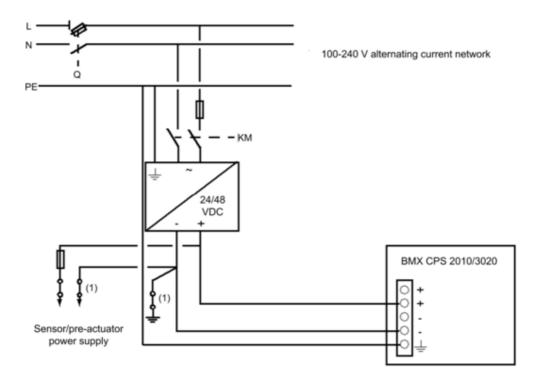
Connection of Direct Current Power Supply Modules to a 24 Vdc or 48 Vdc Floating Direct Current Network



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



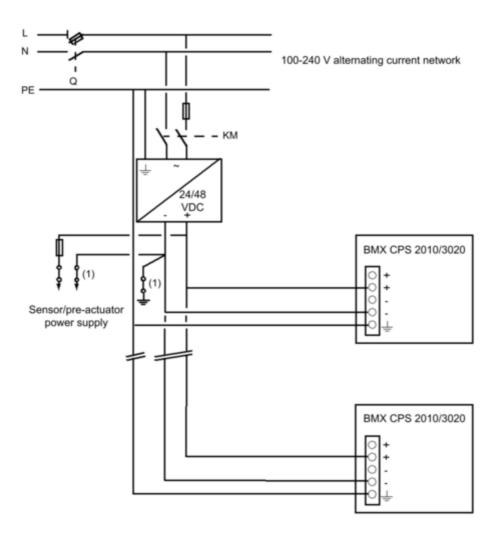
Q General isolator

KM Line contactor or circuit breaker

(1) Insulation connector bar for locating grounding errors

Connection of a Multi-Rack PLC Station

BMXCPS3020H



Q General isolator

KM Line contactor or circuit breaker

 $\textbf{(1)} \ \ \textbf{Insulation connector bar for locating grounding errors}$

Image of product / Alternate images

Alternative

