

Product datasheet

Specifications



power supply module X80 - 24..48 V isolated DC - for severe environments

BMXCPS3020H

Price: 19,287.82 ZAR

Main

Range Of Product	Modicon X80
Product Or Component Type	Power supply module
Backplane Compatibility	Not compatible with BMEXBP..02
Product Specific Application	For severe environments
Primary Voltage	24...48 V isolated
Supply Circuit Type	DC
Secondary Power	15 W 3.3 V DC at 0...60 °C I/O module logic power supply 31.2 W 24 V DC at 0...60 °C I/O module power supply and processor 11.3 W 3.3 V DC at -25...70 °C I/O module logic power supply 23.4 W 24 V DC at -25...70 °C 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
I²T On Activation	1 A².s 24 V 3 A².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 Devices	10 m power supply cable copper 1.5 mm² 15 m power supply cable copper 2.5 mm²
Insulation Resistance	>= 10 MOhm primary/ground >= 10 MOhm primary/secondary
Net Weight	0.34 kg

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

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	-40...85 °C
Ambient Air Temperature For Operation	-25...70 °C
Relative Humidity	5...95 % at 55 °C without condensation
Protective Treatment	Conformal coating
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	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
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Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

 Mercury Free

 RoHS Exemption Information [Yes](#)

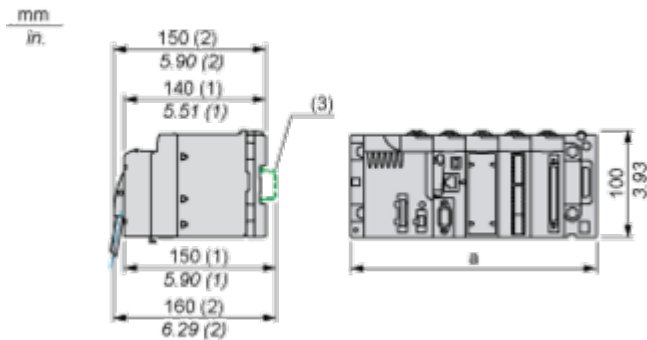
Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Dimensions Drawings

Modules Mounted on Racks

Dimensions

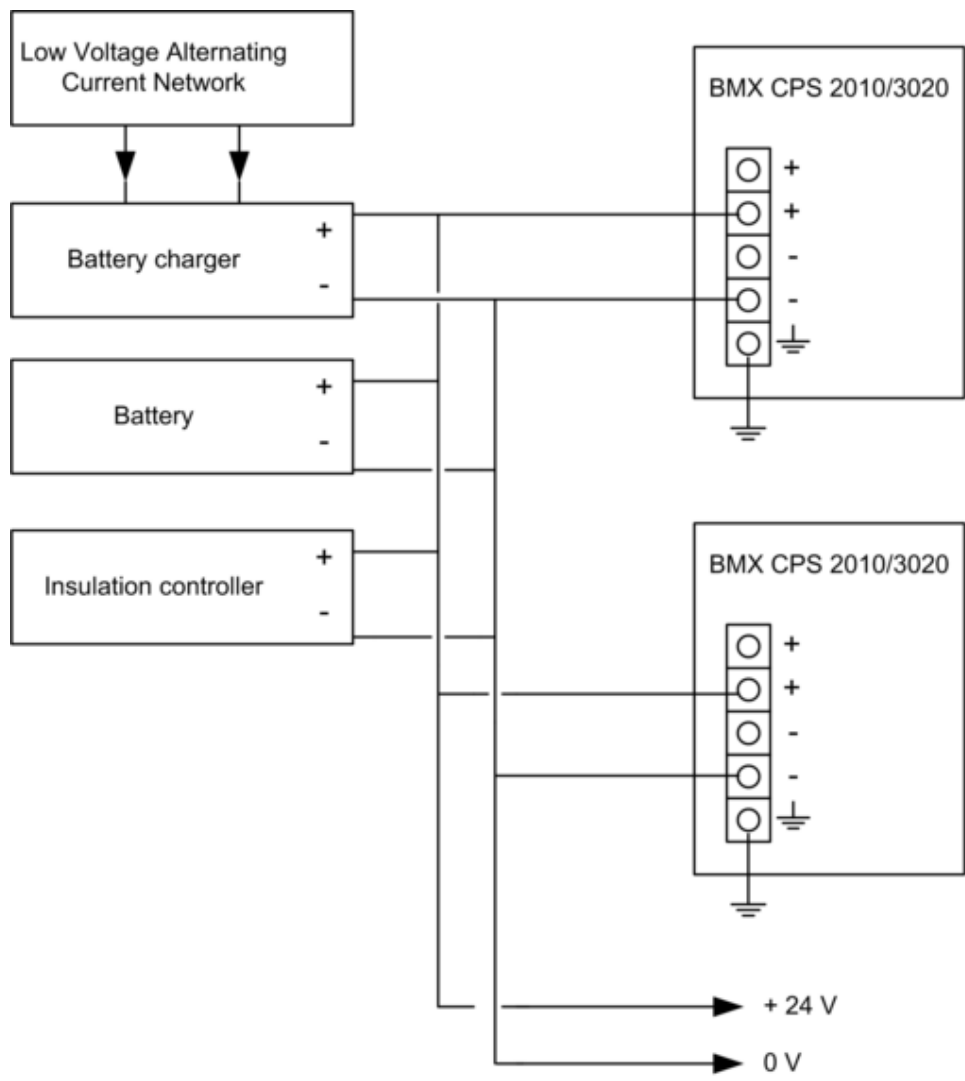


- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

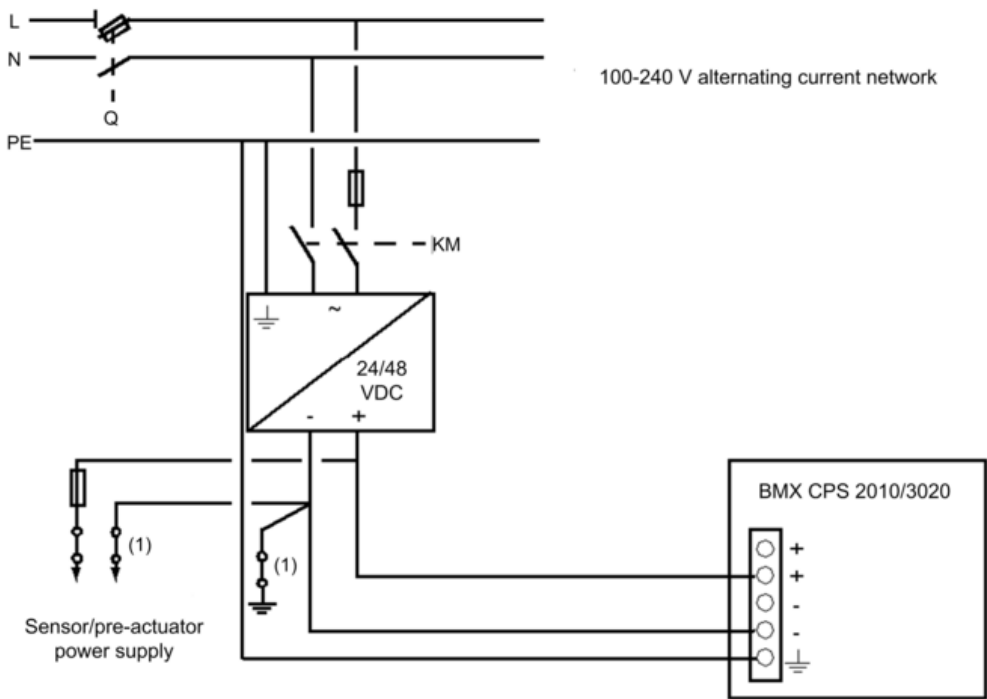
Connection of Direct Current Power Supply Modules to a 24 Vdc or 48 Vdc Floating Direct Current Network



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

