

# Product data sheet

Specifications



## power supply module X80 - 125 V DC - for extended temperature

BMXCPS3540T

### Main

Range of product	Modicon X80
Product or component type	Power supply module
Backplane compatibility	Not compatible with BMEXBP..02
Product specific application	Extended temperature
Primary voltage	125 V
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	100...150 V
Input current	350 mA 125 V
Inrush current	30 A 125 V
I <sup>2</sup> t on activation	2 A <sup>2</sup> .s 125 V
It on activation	0.05 A.s 125 V
MTBF reliability	4400000 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 1 LED (green) sensor voltage
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
Insulation resistance	>= 100 MOhm primary/ground >= 100 MOhm primary/secondary
Net weight	0.36 kg

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	2000 V primary/secondary I/O module logic power supply 500 V 24 V sensor output/ground
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
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2
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	13.7 cm
Package 1 Width	15.7 cm
Package 1 Length	15.7 cm
Package 1 Weight	480.0 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	6.463 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	48
Package 3 Height	60.0 cm
Package 3 Width	80.0 cm
Package 3 Length	48.0 cm
Package 3 Weight	41.568 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)

[EU RoHS Declaration](#)

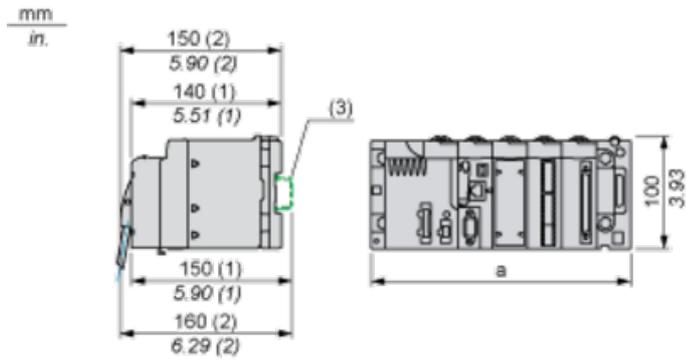
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	Yes
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<b>California proposition 65</b>	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

**Contractual warranty**

<b>Warranty</b>	18 months
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**Modules Mounted on Racks**

**Dimensions**



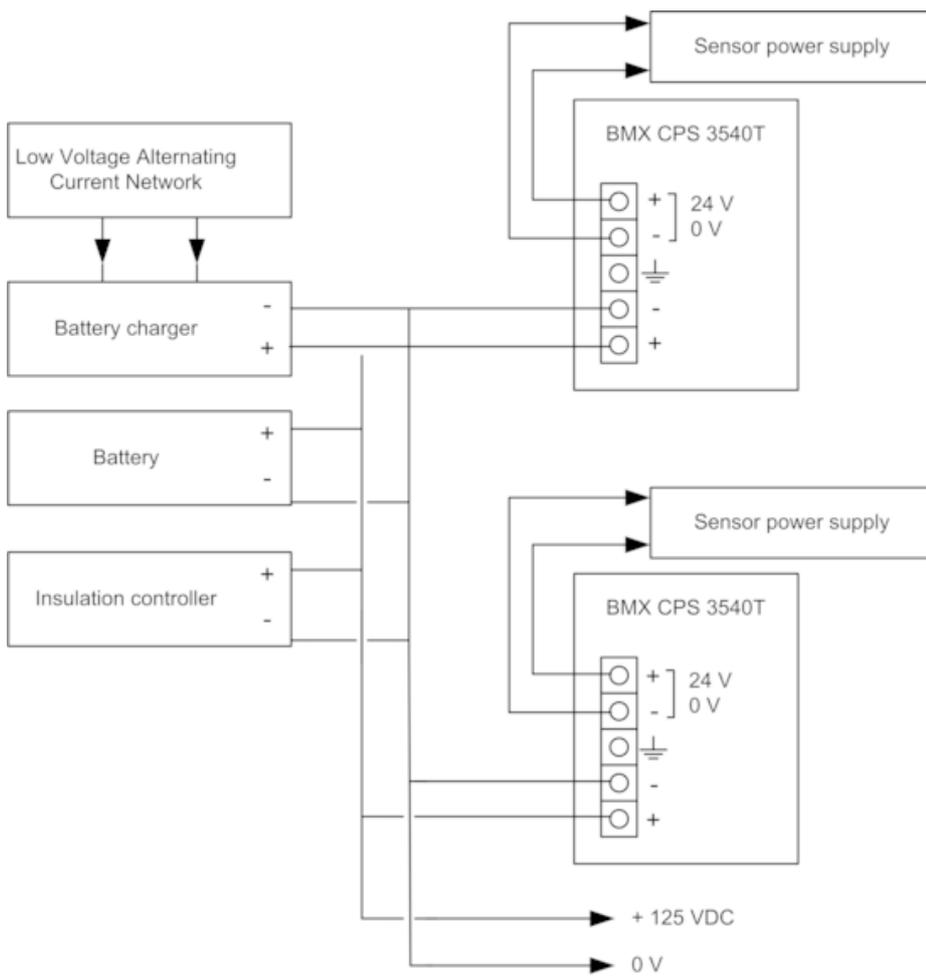
(1) With removable terminal block (cage, screw or spring).

(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

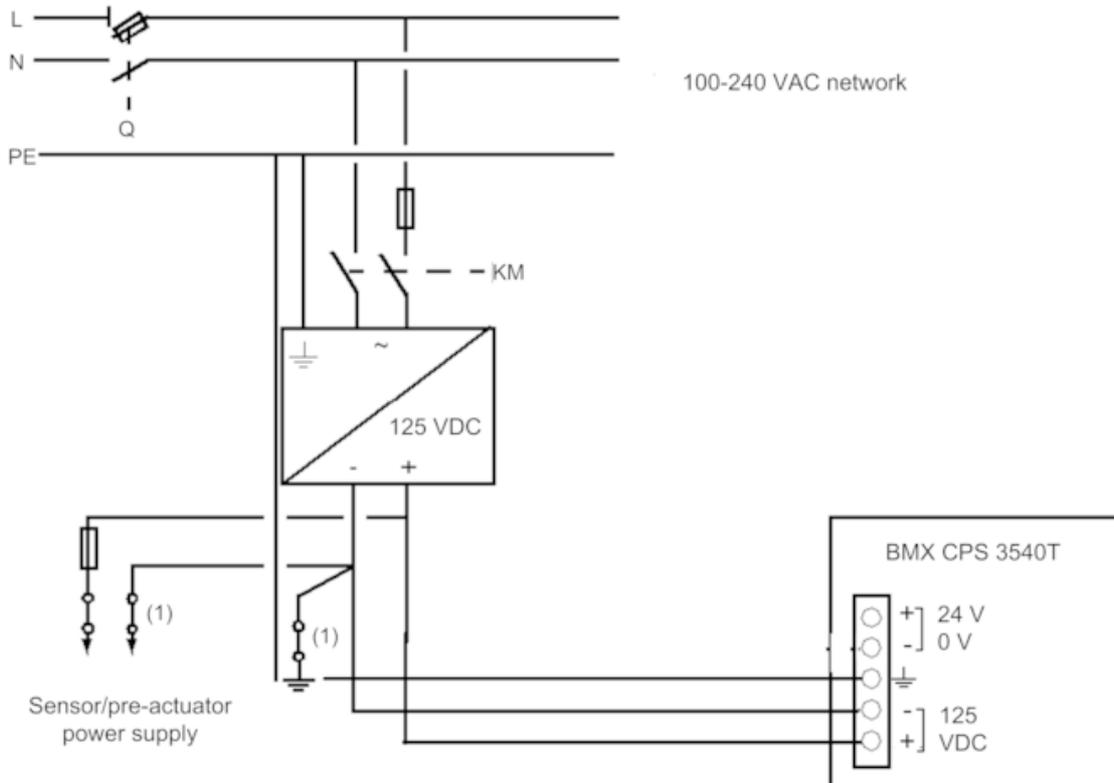
## Connection of Direct Current Power Supply Modules to a 125 VDC Floating Direct Current Network



125 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

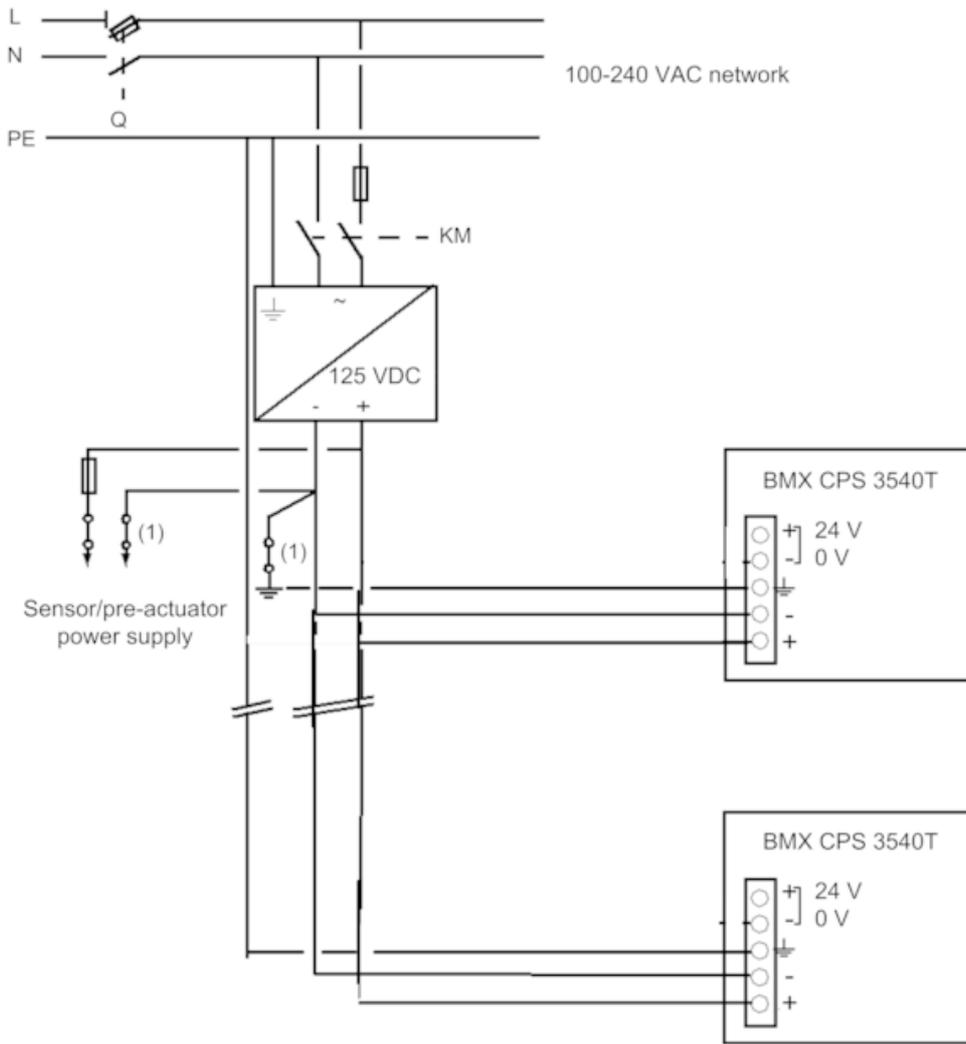


**Q** General isolator

**KM** Line contactor or circuit breaker

**(1)** Insulation connector bar for grounding

## Connection of a Multi-Rack PLC Station



**Q** General isolator

**KM** Line contactor or circuit breaker

**1** Insulation connector bar for grounding

## Recommended replacement(s)