

Product data sheet

Specifications



power supply module, Modicon X80,
125V 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 |
| I²t on activation | 2 A².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 |

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 |

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

| | |
|---------------------------------------|--|
| 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 |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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

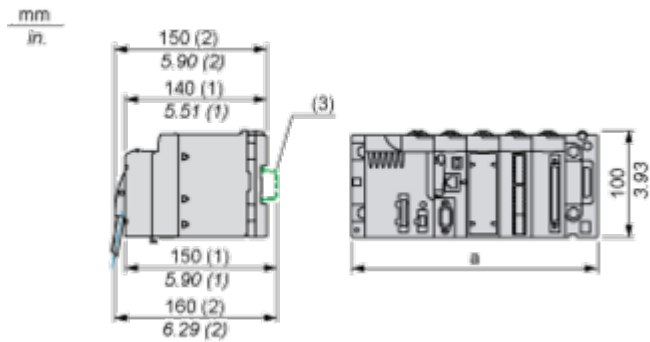
Certifications & Standards

| | |
|---------------------------|---|
| 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 |
| 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 |

Dimensions Drawings

Modules Mounted on Racks

Dimensions

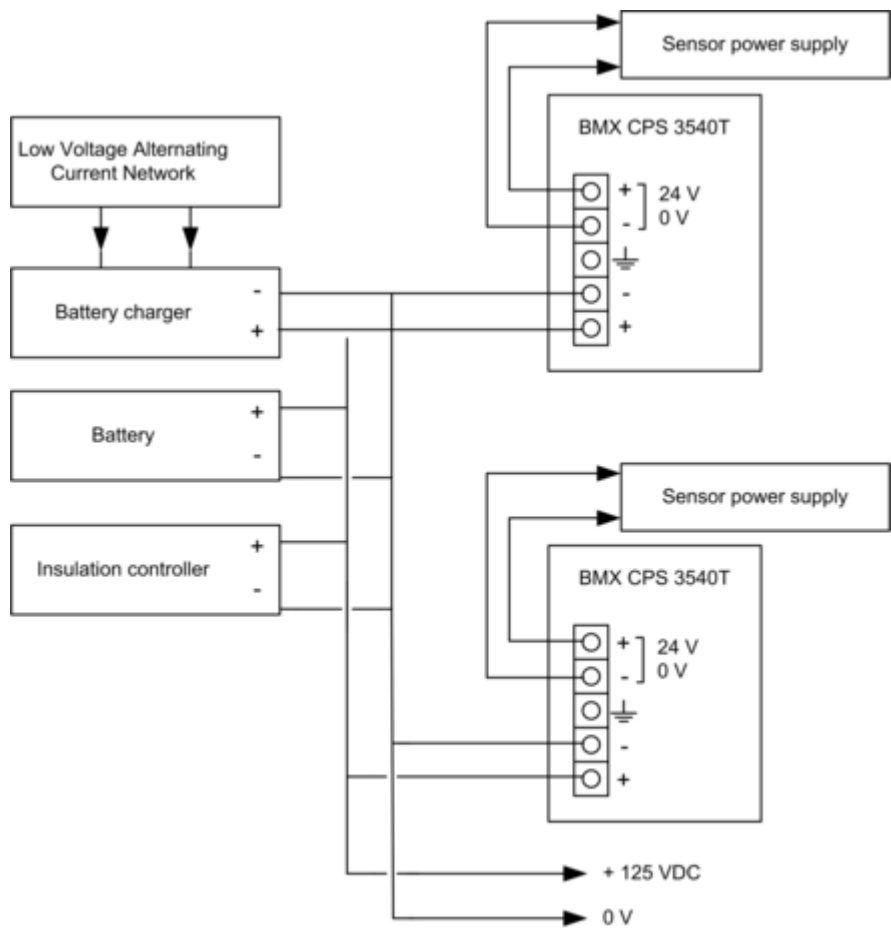


- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

| 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

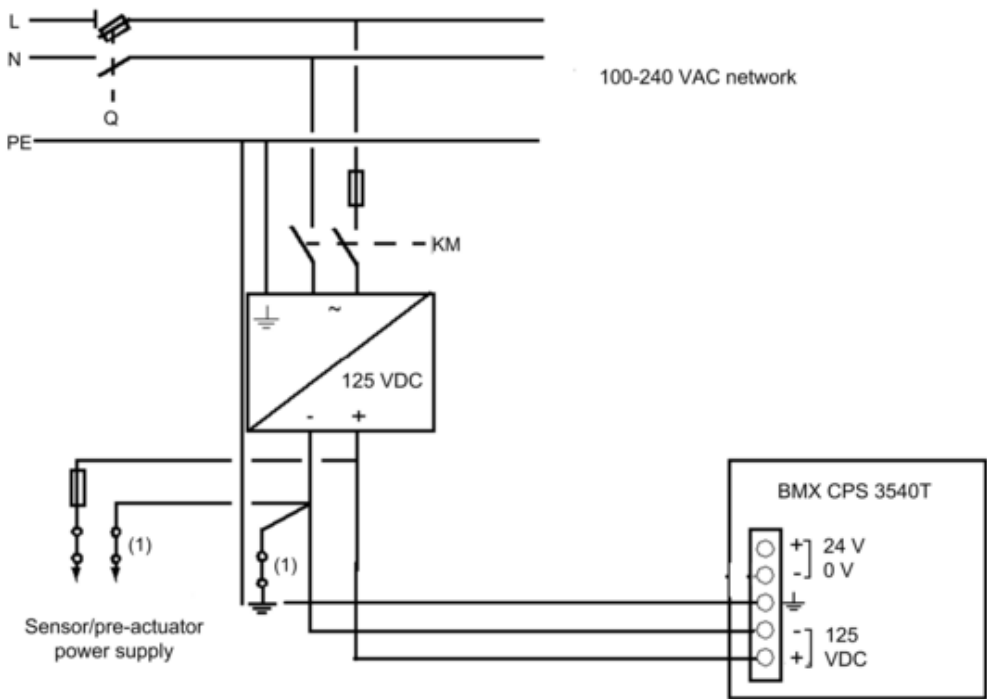
Connection of Direct Current Power Supply Modules to a 125 VDC Floating Direct Current Network



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

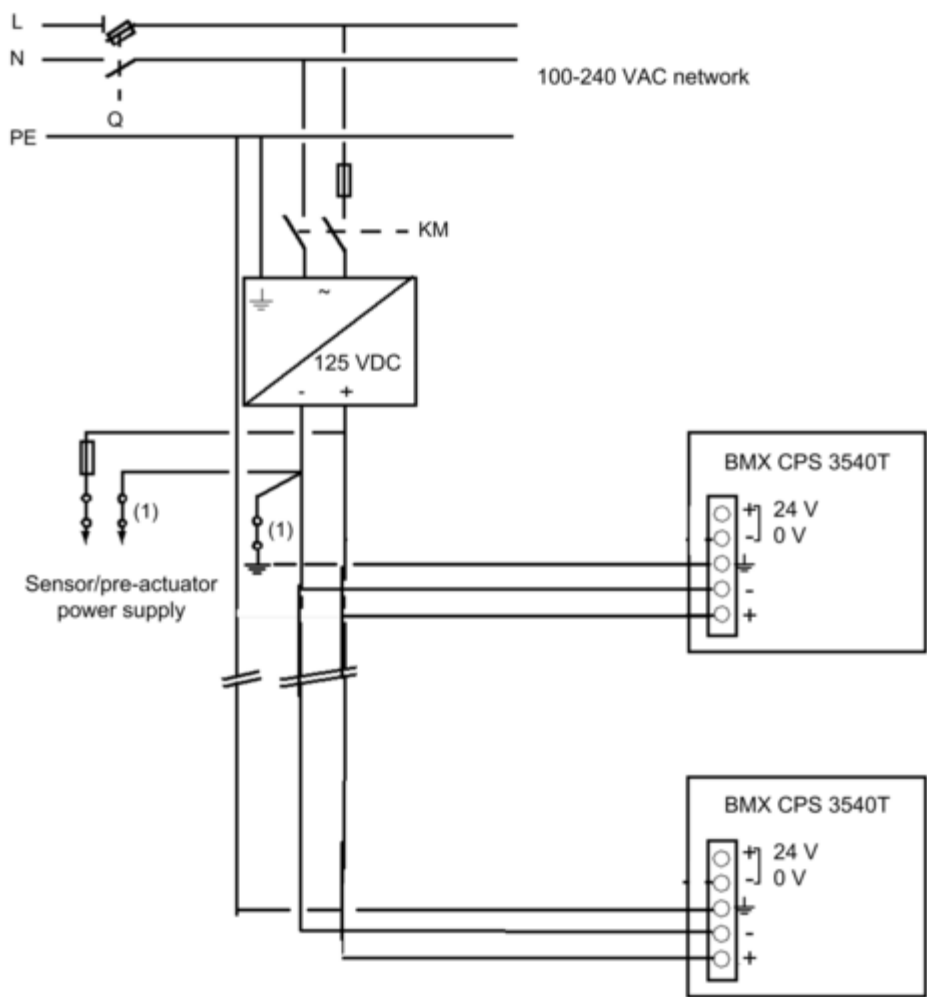
Connection of Direct Current Power Supply Modules to an Alternating Current Network

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