



Presentation

BMXCPS●●●● power supply modules provide the power supply for each **BMEXBP●●00** or **BMXXBP●●00** Modicon X80 I/O rack and the modules installed on it.

The Modicon X80 I/O power supply module offer comprises:

- Three power supply modules for DC line supplies:
 - 24 V --- isolated power supply module, **BMXCPS2010**
 - 24...48 V --- isolated power supply module, **BMXCPS3020**
 - 125 V --- power supply module, **BMXCPS3540T** (extended operating temperature -25 to +70 °C/-13 to +158 °F)
- Two power supply modules for AC line supplies:
 - 100...240 V \sim , 20 W power supply module, **BMXCPS2000**
 - 100...240 V \sim , 36 W power supply module, **BMXCPS3500**

Description

The power supply module is selected according to:

- The electrical line supply: 24 V --- , 48 V --- , 125 V --- , or 100...240 V \sim
- The required power (see the power consumption table available on our website www.schneider-electric.com) (1)

BMXCPS●●●● power supply modules have the following on the front panel:

- 1 A display block comprising:
 - OK LED (green), lit if rack voltages are present and correct
 - 24 V LED (green), lit when the sensor voltage is present (BMXCPS2000/3500/3540T AC power supply modules only)
- 2 A pencil-point RESET pushbutton for a cold restart of the application
- 3 A 2-way connector that can take a removable terminal block (cage clamp or spring-type) for connecting the alarm relay
- 4 A 5-way connector that can take a removable terminal block (cage clamp or spring-type) for connecting the following:
 - --- or \sim line supply
 - Protective earth ground
 - Dedicated 24 V --- power supply for the input sensors (for BMXCPS2000/3500/3540T AC power supply modules only)

Included with each power supply module:

- Set of two cage clamp removable terminal blocks (5-way and 2-way) **BMXTSCPS10**

To be ordered separately (if necessary):

- Set of two spring-type removable terminal blocks (5-way and 2-way) **BMXTSCPS20**

Functions

Alarm relay

The alarm relay incorporated in each power supply module has a volt-free contact accessible on the front panel, on the 2-way connector.

The operating principle is as follows:

In normal operation, with the PLC in RUN, the alarm relay is energized and its contact is closed (state 1).

The relay de-energizes and its associated contact opens (state 0) whenever the application stops, even partially, due to any of the following:

- Occurrence of a detected blocking fault
- Incorrect rack output voltages
- Loss of supply voltage

(1) This power consumption calculation for the rack can also be performed by the Unity Pro programming software.

