

# Product datasheet

Specifications



## Discrete output module, Modicon X80, 32 transistor outputs, 12/24V DC

BMXDDO3202

EAN Code: 3606482177963

### Main

|                           |                              |
|---------------------------|------------------------------|
| Range of product          | Modicon X80                  |
| Product or component type | Discrete output module       |
| Discrete output number    | 32 conforming to IEC 61131-2 |
| Discrete output type      | Solid state                  |
| Discrete output logic     | Positive                     |
| Discrete output voltage   | 12...24 V 10.8...30 V DC     |
| Discrete output current   | 0.5 A                        |

### Complementary

|                                 |                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Current per channel             | 0.55 A                                                                                                                 |
| Maximum current per module      | 17.6 A                                                                                                                 |
| Maximum leakage current         | 0.1 mA at state 0                                                                                                      |
| Maximum voltage drop            | <1.2 V at state 1                                                                                                      |
| Insulation resistance           | > 10 MOhm 500 V DC                                                                                                     |
| Power dissipation in W          | 4.8 W                                                                                                                  |
| Response time on output         | 0.3 ms                                                                                                                 |
| Paralleling of outputs          | Yes : 3 maximum                                                                                                        |
| Typical current consumption     | 56 mA at 3.3 V DC                                                                                                      |
| MTBF reliability                | 833000 H                                                                                                               |
| Protection type                 | External fuse reverse polarity protection<br>short-circuit protection<br>overload protection<br>overvoltage protection |
| Output overload protection      | With electronic circuit breaker $1.5 I_n < I_d < 2 I_n$<br>With current limiter                                        |
| Output overvoltage protection   | With transil diode                                                                                                     |
| Output short-circuit protection | With external fuse                                                                                                     |
| Reverse polarity protection     | Reverse mounted diode                                                                                                  |
| Voltage detection threshold     | < 14 V DC preactuator fault<br>> 18 V DC preactuator at state 0                                                        |
| Maximum tungsten load           | 6 W 24 V<br>3 W 12 V                                                                                                   |
| Switching frequency             | 0.5/LI² Hz                                                                                                             |
| Load impedance ohmic            | > 54.54 Ohm                                                                                                            |

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

|            |                                                                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Status LED | 1 LED (green) module operating (RUN)<br>1 LED per channel (green) channel diagnostic<br>1 LED (red) module error (ERR)<br>1 LED (red) module I/O |
| Net weight | 142.01 g                                                                                                                                         |

## Environment

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| IP degree of protection               | IP20                                                                             |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility |
| Dielectric strength                   | 1780 V AC at 50/60 Hz 1 minute, output/ground<br>1 minute, output/internal logic |
| Vibration resistance                  | 3 gn                                                                             |
| Shock resistance                      | 30 gn                                                                            |
| Ambient air temperature for storage   | -40...85 °C                                                                      |
| Ambient air temperature for operation | 0...60 °C                                                                        |
| Relative humidity                     | 5...95 % at 55 °C without condensation                                           |
| Protective treatment                  | Standard version                                                                 |
| Operating altitude                    | 0...2000 m<br>2000...5000 m with derating factor                                 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 6.000 cm  |
| Package 1 Width              | 18.000 cm |
| Package 1 Length             | 26.500 cm |
| Package 1 Weight             | 305.000 g |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 10        |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 3.908 kg  |

## Logistical informations

|                   |    |
|-------------------|----|
| Country of origin | ID |
|-------------------|----|

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 32 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 18 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0.3 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 14 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.4 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |     |
|----------------------------------------|-----|
| Packaging made with recycled cardboard | Yes |
|----------------------------------------|-----|

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



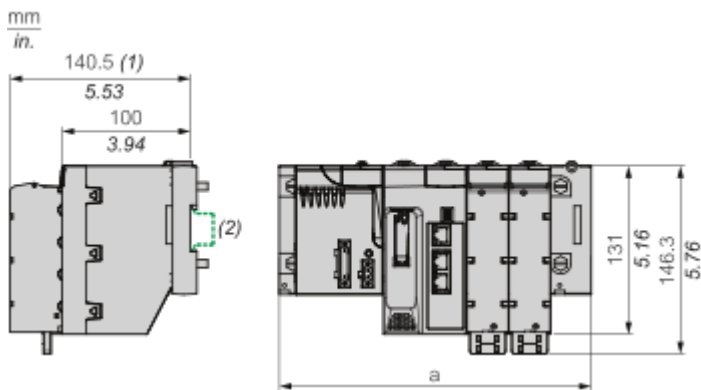
### Repack and remanufacture

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Recyclability potential, in %   | 0                                       |
| End of life manual availability | <a href="#">End of Life Information</a> |
| Take-back                       | No                                      |

Dimensions Drawings

Modules Mounted on Racks

Dimensions



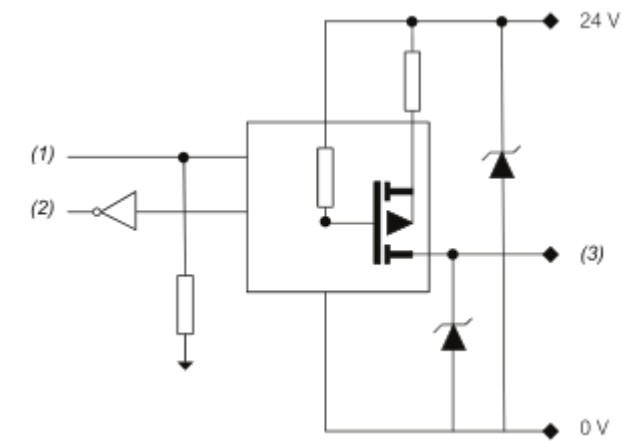
- (1) With removable terminal block (cage, screw or spring).  
(2) On AM1 ED rail: 35 mm wide, 15 mm deep.

| Rack references            | a in mm | a in in. |
|----------------------------|---------|----------|
| BMXXBP0400 and BMXXBP0400H | 242.4   | 9.54     |
| BMXXBP0600 and BMXXBP0600H | 307.6   | 12.11    |
| BMXXBP0800 and BMXXBP0800H | 372.8   | 14.68    |
| BMXXBP1200and BMXXBP1200H  | 503.2   | 19.81    |
| BMEXBP0400 and BMEXBP0400H | 242.4   | 9.54     |
| BMEXBP0800 and BMEXBP0800H | 372.8   | 14.68    |
| BMEXBP1200 and BMEXBP1200H | 503.2   | 19.81    |
| BMEXBP0602 and BMEXBP0602H | 375.8   | 14.8     |
| BMEXBP1002 and BMEXBP1002H | 506.2   | 19.93    |

Connections and Schema

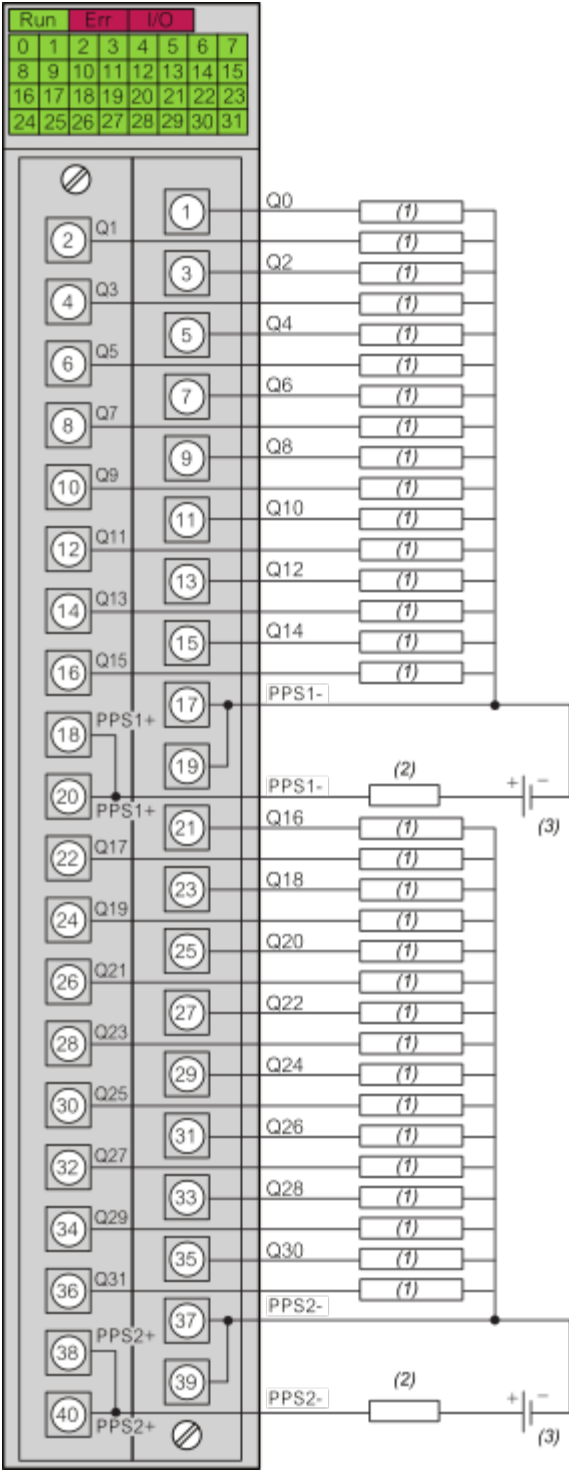
Connecting the Module

Output Circuit Diagram



- (1) Command
- (2) Detected Error
- (3) Output

Module Connection



- (1) Pre-actuator
- (2) Fast blow fuse for each 16-channel group. The fuse rating adjusted according to the load
- (3) Pre-actuator power supply (PPSn) 12 VDC/24 VDC

Image of product / Alternate images

Alternative

---

