

# Product data sheet

Specifications



discrete output module, Modicon X80, 16 NO relay outputs, 24 to 240V AC, 24 to 48V DC, for severe environments

BMXDRA1605H

Product availability: Non-Stock - Not normally stocked in distribution facility

## Main

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| Range Of Product             | Modicon X80                                        |
| Product Or Component Type    | Discrete output module                             |
| Product Specific Application | For severe environments                            |
| Discrete Output Number       | 16 IEC 61131-2                                     |
| Discrete Output Type         | Relay                                              |
| Discrete Output Voltage      | 24...48 V 19...60 V DC<br>24...240 V 19...264 V AC |

## Complementary

|                                             |                                                                                                                      |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| [Ith] Conventional Free Air Thermal Current | 2 A                                                                                                                  |
| Insulation Resistance                       | > 10 MOhm 500 V DC                                                                                                   |
| Power Dissipation In W                      | 3 W                                                                                                                  |
| Response Time On Output                     | < 8 ms activation<br>< 10 ms deactivation                                                                            |
| Typical Current Consumption                 | 100 mA 3.3 V DC<br>95 mA 24 V DC                                                                                     |
| Mtbf Reliability                            | 2100000 H                                                                                                            |
| Output Overload Protection                  | Use 1 fast blow fuse per channel or group of channel                                                                 |
| Output Overvoltage Protection               | Use discharge diode on each output DC<br>Use RC circuit on each output AC<br>Use ZNO surge limiter on each output AC |
| Output Short-Circuit Protection             | Use 1 fast blow fuse per channel or group of channel                                                                 |
| Minimum Switching Current                   | 1 mA 5 V DC                                                                                                          |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical Durability | AC-15 100000 cycles 240 VA 200 V 0.7)<br>AC-15 100000 cycles 120 VA 200 V 0.35)<br>AC-12 100000 cycles 200 VA 100 V<br>AC-12 100000 cycles 80 VA 48 V<br>AC-12 100000 cycles 50 VA 24 V<br>AC-15 100000 cycles 120 VA 100 V<br>AC-15 100000 cycles 120 VA 24 V<br>AC-15 100000 cycles 120 VA 48 V<br>DC-12 100000 cycles 24 W 24 V<br>DC-13 100000 cycles 10 W 24 V<br>DC-13 100000 cycles 10 W 48 V<br>AC-15 300000 cycles 72 VA 200 V 0.7)<br>AC-15 300000 cycles 36 VA 200 V 0.35)<br>AC-12 300000 cycles 200 VA 200 V<br>AC-12 300000 cycles 80 VA 100 V<br>AC-12 300000 cycles 50 VA 48 V<br>AC-15 300000 cycles 36 VA 100 V<br>AC-15 300000 cycles 72 VA 100 V<br>AC-15 300000 cycles 36 VA 48 V<br>AC-15 300000 cycles 72 VA 48 V<br>AC-15 300000 cycles 36 VA 24 V<br>AC-15 300000 cycles 72 VA 24 V<br>DC-13 300000 cycles 3 W 24 V<br>DC-13 300000 cycles 3 W 48 V<br>DC-13 7000 cycles 24 W 24 V<br>DC-13 7000 cycles 24 W 48 V<br>DC-12 50000 cycles 24 W 48 V |
| Status Led            | 1 LED (Green) RUN<br>1 LED per channel (Green) channel diagnostic<br>1 LED (Red) ERR<br>1 LED (Red) I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Net Weight            | 0.33 lb(US) (0.15 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Environment

|                                       |                                                                                                                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ip Degree Of Protection               | IP20                                                                                                                                                                                                       |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility                                                                                                                           |
| Environmental Characteristic          | Gas resistant class Gx<br>Gas resistant class 3C4<br>Dust resistant class 3S4<br>Sand resistant class 3S4<br>Salt resistant level 2<br>Mold growth resistant class 3B2<br>Fungal spore resistant class 3B2 |
| Dielectric Strength                   | 2000 V AC 50/60 Hz 1 min                                                                                                                                                                                   |
| Vibration Resistance                  | 3 gn                                                                                                                                                                                                       |
| Shock Resistance                      | 30 gn                                                                                                                                                                                                      |
| Ambient Air Temperature For Storage   | -40...185 °F (-40...85 °C)                                                                                                                                                                                 |
| Ambient Air Temperature For Operation | -13...158 °F (-25...70 °C)                                                                                                                                                                                 |
| Relative Humidity                     | 5...95 % 131 °F (55 °C) without condensation                                                                                                                                                               |
| Protective Treatment                  | Conformal coating                                                                                                                                                                                          |
| Operating Altitude                    | 0...6561.68 ft (0...2000 m)<br>2000...5000 m with derating factor                                                                                                                                          |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC3418160  |
| Discount Schedule | PC34          |
| Gtin              | 3595864025803 |
| Returnability     | No            |

|                   |    |
|-------------------|----|
| Country Of Origin | FR |
|-------------------|----|

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type Of Package 1       | PCE                   |
| Number Of Units In Package 1 | 1                     |
| Package 1 Height             | 2.17 in (5.5 cm)      |
| Package 1 Width              | 4.33 in (11.0 cm)     |
| Package 1 Length             | 4.57 in (11.6 cm)     |
| Package 1 Weight             | 6.70 oz (190.0 g)     |
| Unit Type Of Package 2       | S02                   |
| Number Of Units In Package 2 | 15                    |
| Package 2 Height             | 5.91 in (15.0 cm)     |
| Package 2 Width              | 11.81 in (30.0 cm)    |
| Package 2 Length             | 15.75 in (40.0 cm)    |
| Package 2 Weight             | 6.94 lb(US) (3.15 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-CO<sub>2</sub> 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 >](#)

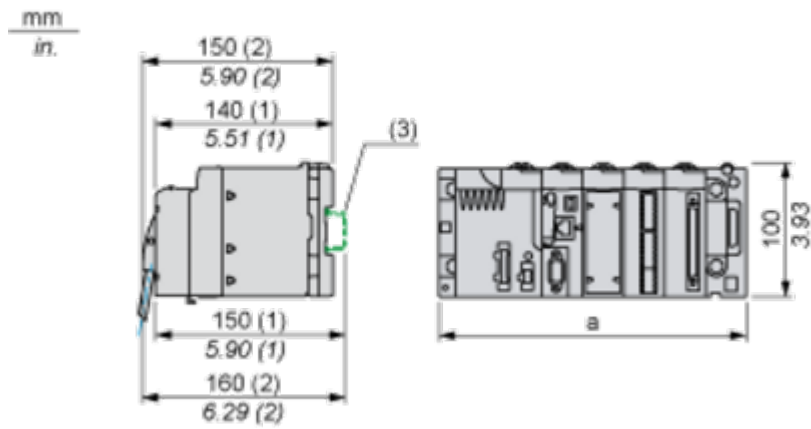
## Well-being performance

|                                                                                                              |                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Mercury Free               |                                                                                                                                                                                                                                                                                             |
|  Rohs Exemption Information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                         |
| Reach Regulation                                                                                             | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| Eu Rohs Directive                                                                                            | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                                                  |
| China Rohs Regulation                                                                                        | <a href="#">China RoHS declaration</a>                                                                                                                                                                                                                                                      |
| Weee                                                                                                         | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                                                |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Dimensions Drawings

Modules Mounted on Racks

Dimensions



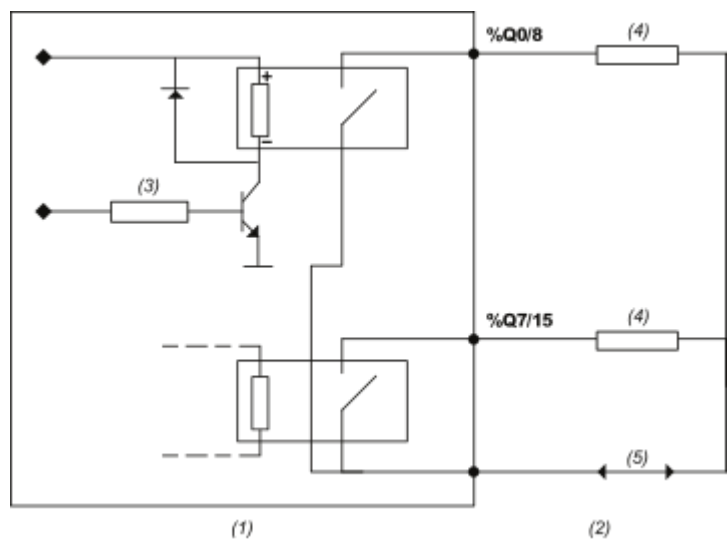
- (1) With removable terminal block (cage, screw or spring).  
(2) With FCN connector.  
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

| 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

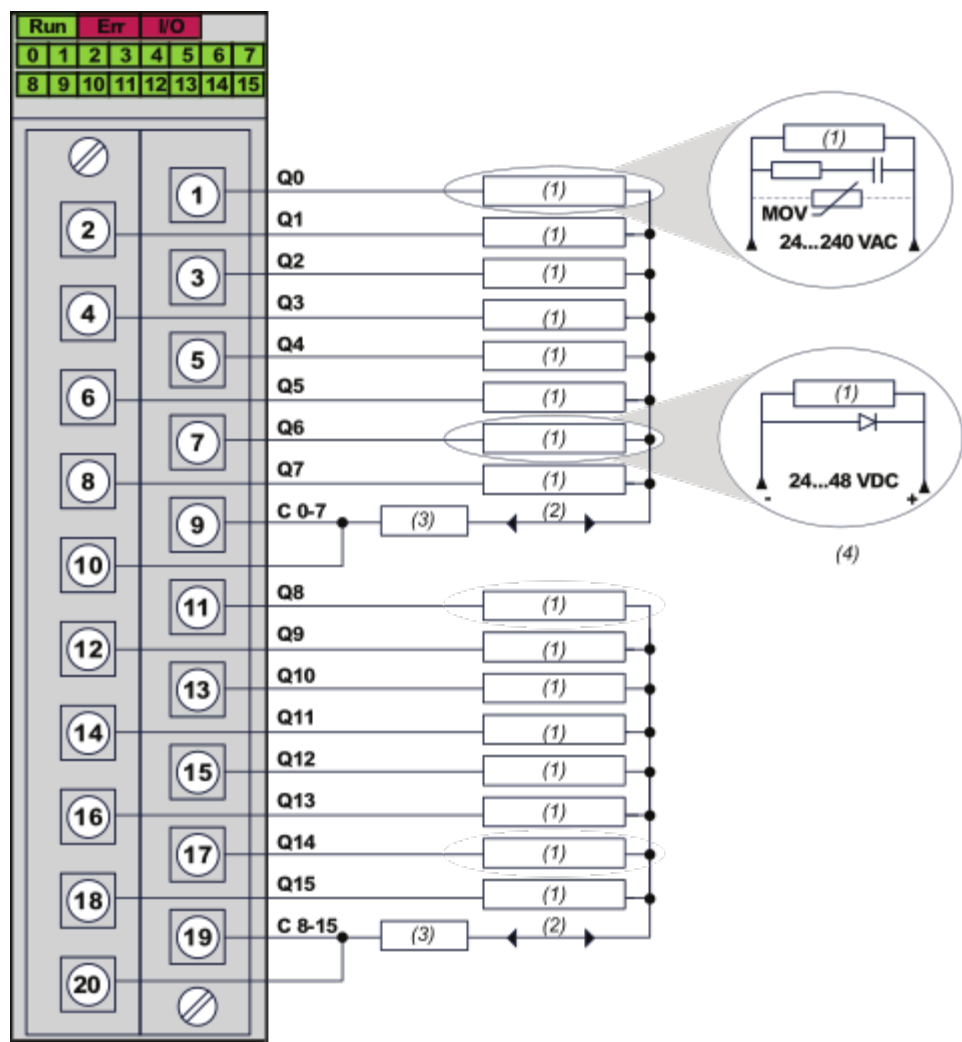
Connecting the Module

Output Circuit Diagram



- (1) Module
- (2) Output
- (3) Command
- (4) Pre-actuator
- (5) Power supply

Module Connection



- (1) Pre-actuator
- (2) Power supply : 24...48 VDC or 24...240 VAC
- (3) Fuse : 1 fast blow fuse of 12 A for each 8-channel group
- (4) We recommend installing this type of protection on the terminals of each pre-actuator