**Product data sheet**

**Characteristics**

**BMXDDO1602**

discrete output module X80 - 16 outputs - 24 V DC positive

Product availability : Stock - Normally stocked in distribution facility

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### Main

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Modicon X80</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Discrete output module</td>
</tr>
<tr>
<td>Discrete output number</td>
<td>16 EN/IEC 61131-2</td>
</tr>
<tr>
<td>Discrete output logic</td>
<td>Positive</td>
</tr>
<tr>
<td>Discrete output voltage</td>
<td>24 V 19...30 V DC</td>
</tr>
<tr>
<td>Discrete output current</td>
<td>0.5 A</td>
</tr>
<tr>
<td>Output compatibility</td>
<td>Not IEC 61131-2 DC input</td>
</tr>
<tr>
<td></td>
<td>IEC 61131-2 type 3 DC input</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current per channel</td>
<td>0.625 A</td>
</tr>
<tr>
<td>Maximum current per module</td>
<td>10 A</td>
</tr>
<tr>
<td>Maximum leakage current</td>
<td>0.5 mA at state 0</td>
</tr>
<tr>
<td>[Ures] residual voltage</td>
<td>1.2 V at state 1</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>&gt; 10 MOhm 500 V DC</td>
</tr>
<tr>
<td>Maximum power dissipation in W</td>
<td>4 W</td>
</tr>
<tr>
<td>Response time on output</td>
<td>1.2 ms</td>
</tr>
<tr>
<td>Paralleling of outputs</td>
<td>Yes : 2 maximum</td>
</tr>
<tr>
<td>Typical current consumption</td>
<td>79 mA 3.3 V DC</td>
</tr>
<tr>
<td>MTBF reliability</td>
<td>392285 H</td>
</tr>
<tr>
<td>Protection type</td>
<td>reverse polarity protection</td>
</tr>
<tr>
<td></td>
<td>External short-circuit protection</td>
</tr>
<tr>
<td></td>
<td>overload protection</td>
</tr>
<tr>
<td></td>
<td>overvoltage protection</td>
</tr>
<tr>
<td>Output overload protection</td>
<td>With electronic circuit breaker 1.5 In &lt; Id &lt; 2 In</td>
</tr>
<tr>
<td></td>
<td>With current limiter</td>
</tr>
<tr>
<td>Output overvoltage protection</td>
<td>With transil diode</td>
</tr>
<tr>
<td>Output short-circuit protection</td>
<td>With 2 A external fuse</td>
</tr>
</tbody>
</table>

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.
### Reverse polarity protection
Reverse mounted diode

### Voltage detection threshold
- < 14 V DC preactuator fault
- > 18 V DC preactuator at state 0

### Maximum tungsten load
6 W

### Switching frequency
0.5/LI² Hz

### Load impedance ohmic
> 48 Ohm

### Status LED
- Module operating (RUN) 1 LED green
- Channel diagnostic 1 LED per channel green
- Module error (ERR) 1 LED red
- Module I/O 1 LED red

### Net weight
0.26 lb(US) (0.12 kg)

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### Environment

**IP degree of protection**
- IP20

**Directives**
- 2014/35/EU - low voltage directive
- 2014/30/EU - electromagnetic compatibility
- 2012/19/EU - WEEE directive

**Product certifications**
- EAC
- CE
- RCM
- CSA
- UL
  - Merchant Navy

**Standards**
- EN 61131-2
- EN 61000-6-4
- EN 61000-6-2
- EN 61010-2-201

### Dielectric strength
- 1500 V AC 50/60 Hz 1 minute, output/ground
- 1500 V AC 50/60 Hz 1 minute, output/internal logic

### Vibration resistance
3 gn

### Shock resistance
30 gn

### Ambient air temperature for storage
- -40…185 °F (-40…85 °C)

### Ambient air temperature for operation
32…140 °F (0…60 °C)

### Relative humidity
5…95 % 131 °F (55 °C) without condensation

### Protective treatment
TC

### Operating altitude
- 0…6561.68 ft (0…2000 m)
- 2000…5000 m with derating factor

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### Ordering and shipping details

**Category**
- 18160 - MODICON M340

**Discount Schedule**
- PC34

**GTIN**
- 00785901608042

**Package weight(Lbs)**
- 0.16 kg (0.35 lb(US))

**Returnability**
- Yes

**Country of origin**
- ID

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### Offer Sustainability

**Sustainable offer status**
- Green Premium product

**REACH Regulation**
- REACh Declaration

**EU RoHS Directive**
- Pro-active compliance (Product out of EU RoHS legal scope)
  - EU RoHS Declaration

**Mercury free**
- Yes

**RoHS exemption information**
- Yes

**China RoHS Regulation**
- China RoHS declaration

**Environmental Disclosure**
- Product Environmental Profile

**Circularity Profile**
- End of Life Information
<table>
<thead>
<tr>
<th>WEEE</th>
<th>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.</th>
</tr>
</thead>
</table>

**Contractual warranty**

<table>
<thead>
<tr>
<th>Warranty</th>
<th>18 months</th>
</tr>
</thead>
</table>
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.

<table>
<thead>
<tr>
<th>Rack references</th>
<th>a in mm</th>
<th>a in in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMXXBP0400 and BMXXBP0400H</td>
<td>242.4</td>
<td>09.54</td>
</tr>
<tr>
<td>BMXXBP0600 and BMXXBP0600H</td>
<td>307.6</td>
<td>12.11</td>
</tr>
<tr>
<td>BMXXBP0800 and BMXXBP0800H</td>
<td>372.8</td>
<td>14.68</td>
</tr>
<tr>
<td>BMXXBP1200 and BMXXBP1200H</td>
<td>503.2</td>
<td>19.81</td>
</tr>
</tbody>
</table>
Connecting the Module

Output Circuit Diagram

Module Connection

power supply 24 VDC
fuse fast blow fuse of 6.3 A
pre-act pre-actuator