



### Main

|                              |                         |
|------------------------------|-------------------------|
| Range of Product             | Modicon X80             |
| Product or Component Type    | Analog output module    |
| Product Specific Application | For severe environments |
| Electrical connection        | 20 ways 1 connector     |
| Isolation between channels   | Isolated                |

### Complementary

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| Measurement error             | 0.1 % of full scale 25 °C<br>≤ 0.45 % of full scale - 25...70 °C                                         |
| Temperature drift             | 30 ppm/°C                                                                                                |
| Recalibration                 | Factory calibrated                                                                                       |
| Minimum crosstalk attenuation | 90 dB                                                                                                    |
| Common mode rejection         | 100&nbsp;dB                                                                                              |
| Isolation voltage             | 1400 V DC between channels and ground<br>1400 V DC between channels and bus<br>750 V DC between channels |
| Detection type                | Open circuit 0...20 mA<br>Open circuit 4...20 mA<br>Short circuit +/- 10 V                               |
| Load impedance ohmic          | ≤ 600 Ohm 0...20 mA<br>≤ 600 Ohm 4...20 mA<br>≥ 1000 Ohm +/- 10 V                                        |
| Output level                  | High level                                                                                               |
| Analogue output number        | 2                                                                                                        |
| Analogue output type          | Current 0...20 mA<br>Current 4...20 mA<br>Voltage +/- 10 V                                               |
| Analogue output resolution    | 15 bits + sign                                                                                           |
| Supply                        | Internal power supply via rack                                                                           |
| Conversion time               | ≤ 1 ms                                                                                                   |
| Maximum conversion value      | +/- 11.25 V +/- 10 V<br>0...24 mA 0...20 mA<br>0...24 mA 4...20 mA                                       |
| Fallback mode                 | Configurable<br>Predefined                                                                               |
| Operating altitude            | 0...6561.68 ft (0...2000 m)<br>2000...5000 m with derating factor                                        |
| 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                    | 0.32 lb(US) (0.144 kg)                                                                                   |
| Power consumption in W        | 2.1 W 24 V DC typical<br>2.8 W 24 V DC maximum<br>0.35 W 3.3 V DC typical<br>0.48 W 3.3 V DC maximum     |

## Environment

|                                       |                                                                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                     |
| IP Degree of Protection               | IP20                                                                                                                                                                                                                             |
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility                                                                                                                                                 |
| Product Certifications                | CE<br>RCM<br>CSA<br>EAC<br>Merchant Navy<br>UL<br>ATEX<br>IEC-Ex                                                                                                                                                                 |
| Standards                             | EN/IEC 61010-2-201<br>EN/IEC 61131-2<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201                                                                                                                                               |
| 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<br>Hazardous location |
| Protective treatment                  | Conformal coating                                                                                                                                                                                                                |

## Ordering and shipping details

|                       |                    |
|-----------------------|--------------------|
| Category              | 18160-MODICON M340 |
| Discount Schedule     | PC34               |
| GTIN                  | 3595864025322      |
| Nbr. of units in pkg. | 1                  |
| Package weight(Lbs)   | 6.67 oz (189.0 g)  |
| Returnability         | No                 |
| Country of origin     | FR                 |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 2.17 in (5.5 cm)       |
| Package 1 width              | 4.33 in (11 cm)        |
| Package 1 Length             | 4.72 in (12 cm)        |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 15                     |
| Package 2 Weight             | 6.25 lb(US) (2.835 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 11.81 in (30 cm)       |
| Package 2 Length             | 15.75 in (40 cm)       |

## Offer Sustainability

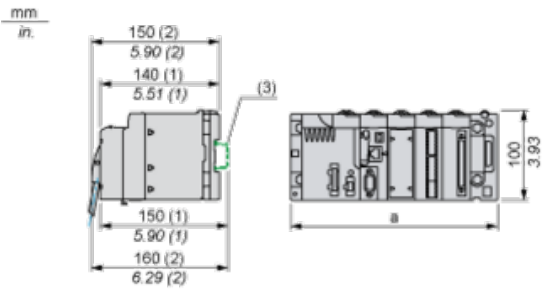
|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                       |
| 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> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                               |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                                                |

## Contractual warranty

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

Modules Mounted on Racks

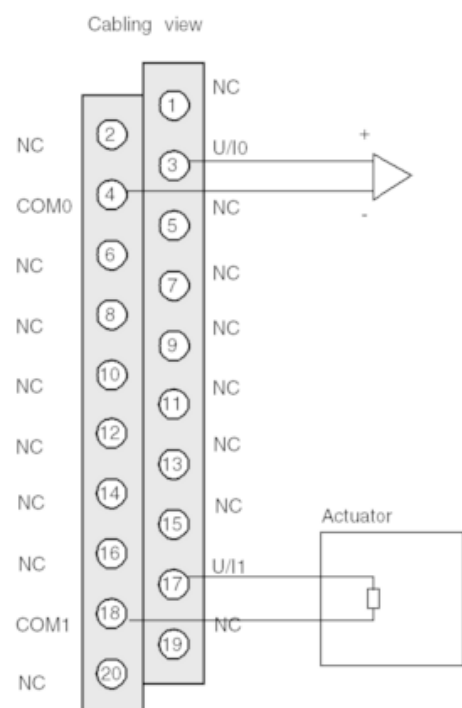
Dimensions



- (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    |

## Wiring Diagram



U/Ix + pole input for channel x

COMx - pole input for channel x

Channel 0 Voltage actuator

Channel 1 Current actuator

The current loop is self-powered by the output and does not request any external supply.