

# Product datasheet

Specifications



discrete output module, Modicon X80, 16 transistor outputs, 24V DC positive

BMXDDO1602

## Main

Range Of Product	Modicon X80
Product Or Component Type	Discrete output module
Discrete Output Number	16 conforming to EN/IEC 61131-2
Discrete Output Type	Solid state
Discrete Output Logic	Positive
Discrete Output Voltage	24 V 19...30 V DC
Discrete Output Current	0.5 A

## Complementary

Current Per Channel	0.625 A
Maximum Current Per Module	10 A
Maximum Leakage Current	0.5 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 W
Response Time On Output	1.2 ms
Paralleling Of Outputs	Yes : 2 maximum
Typical Current Consumption	79 mA at 3.3 V DC
Mtbf Reliability	410000 H
Protection Type	External fuse reverse polarity protection short-circuit protection overload protection overvoltage protection
Output Overload Protection	With electronic circuit breaker $1.5 I_n < I_d < 2 I_n$ With current limiter
Output Overvoltage Protection	With transil diode
Output Short-Circuit Protection	With 2 A external fuse
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

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) 1 LED per channel (green) channel diagnostic 1 LED (red) module error (ERR) 1 LED (red) module I/O
Net Weight	0.12 kg

## Environment

Ip Degree Of Protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric Strength	1500 V AC at 50/60 Hz 1 minute, output/ground 1500 V AC at 50/60 Hz 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
Operating Altitude	0...2000 m 2000...5000 m with derating factor

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.56 cm
Package 1 Width	11.096 cm
Package 1 Length	11.759 cm
Package 1 Weight	160.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	3.04 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	240
Package 3 Height	75.0 cm
Package 3 Width	60.0 cm
Package 3 Length	80.0 cm
Package 3 Weight	59 kg

## Contractual warranty

Warranty	18 months
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# 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 >](#)

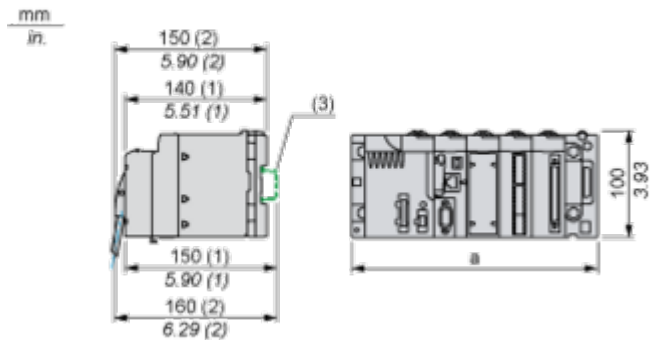
## Well-being performance

 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

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.

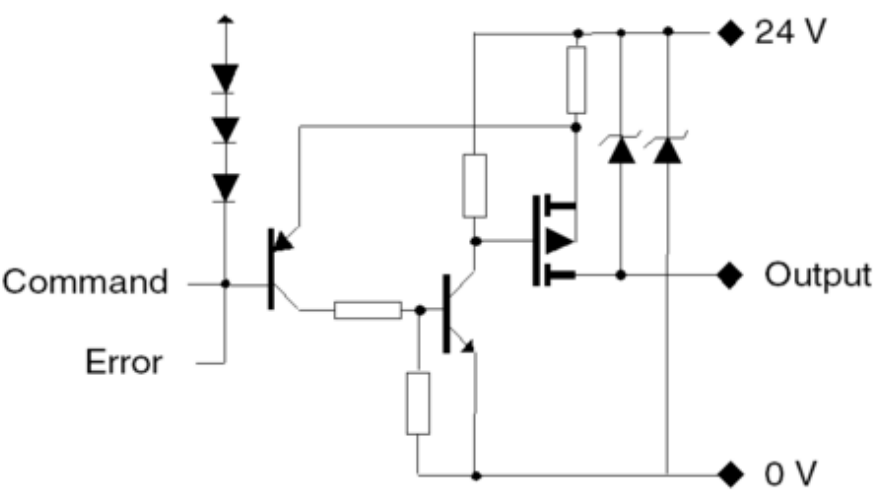
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connections and Schema

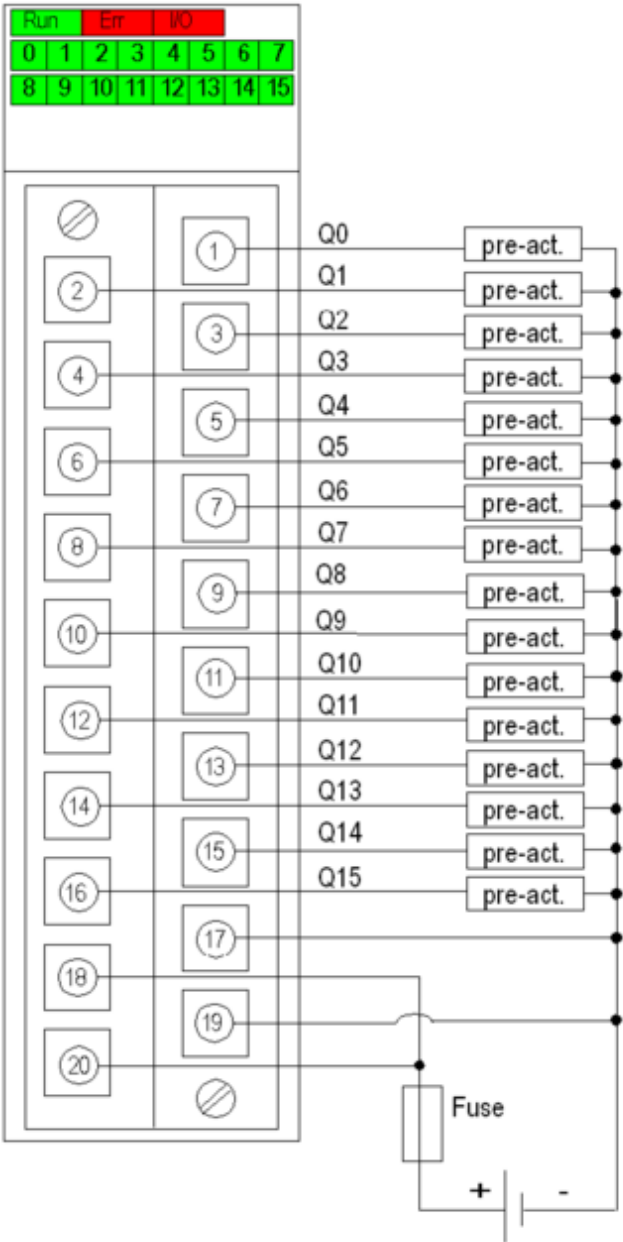
Connecting the Module

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Output Circuit Diagram



Module Connection



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