

Product data sheet

Specifications



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

BMXDDO3202

Main

Range of product	Modicon X80
Product or component type	Discrete output module
Discrete output number	32 conforming to EN/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 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 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 24 V 3 W 12 V
Switching frequency	0.5/LI ² Hz
Load impedance ohmic	> 54.54 Ohm

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	142.01 g

Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	1780 V AC at 50/60 Hz 1 minute, output/ground 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	6.000 cm
Package 1 Width	18.000 cm
Package 1 Length	26.500 cm
Package 1 Weight	317.000 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

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

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation [REACH Declaration](#)

Use Again

Repack and remanufacture

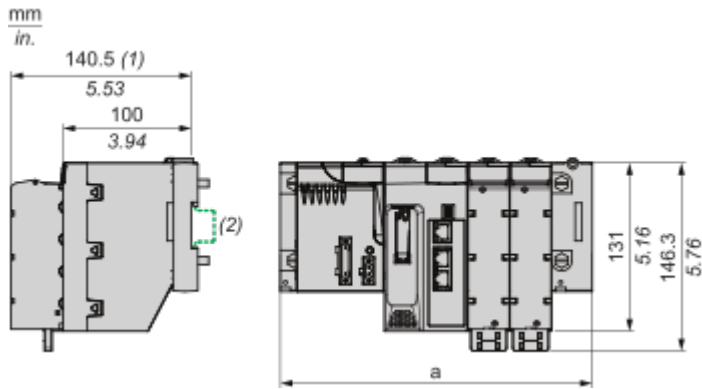
End of life manual availability [End of Life Information](#)

Take-back No

Dimensions Drawings

Modules Mounted on Racks

Dimensions



(1) With removable terminal block (cage, screw or spring).

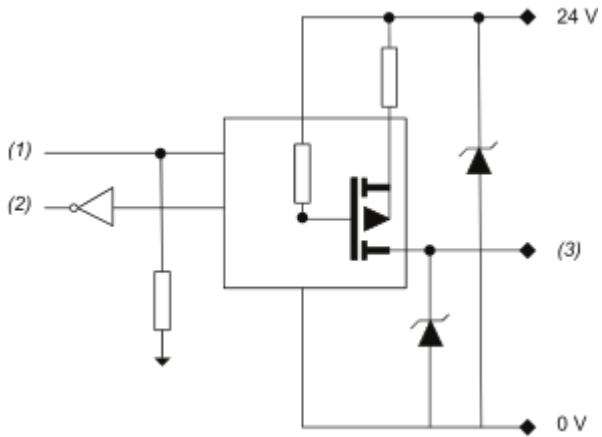
(2) On AM1 ED rail: 35 mm wide, 15 mm deep.

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
BMXXBP1200 and BMXXBP1200H	503.2	19.81
BMEXP0400 and BMEXP0400H	242.4	9.54
BMEXP0800 and BMEXP0800H	372.8	14.68
BMEXP1200 and BMEXP1200H	503.2	19.81
BMEXP0602 and BMEXP0602H	375.8	14.8
BMEXP1002 and BMEXP1002H	506.2	19.93

Connections and Schema

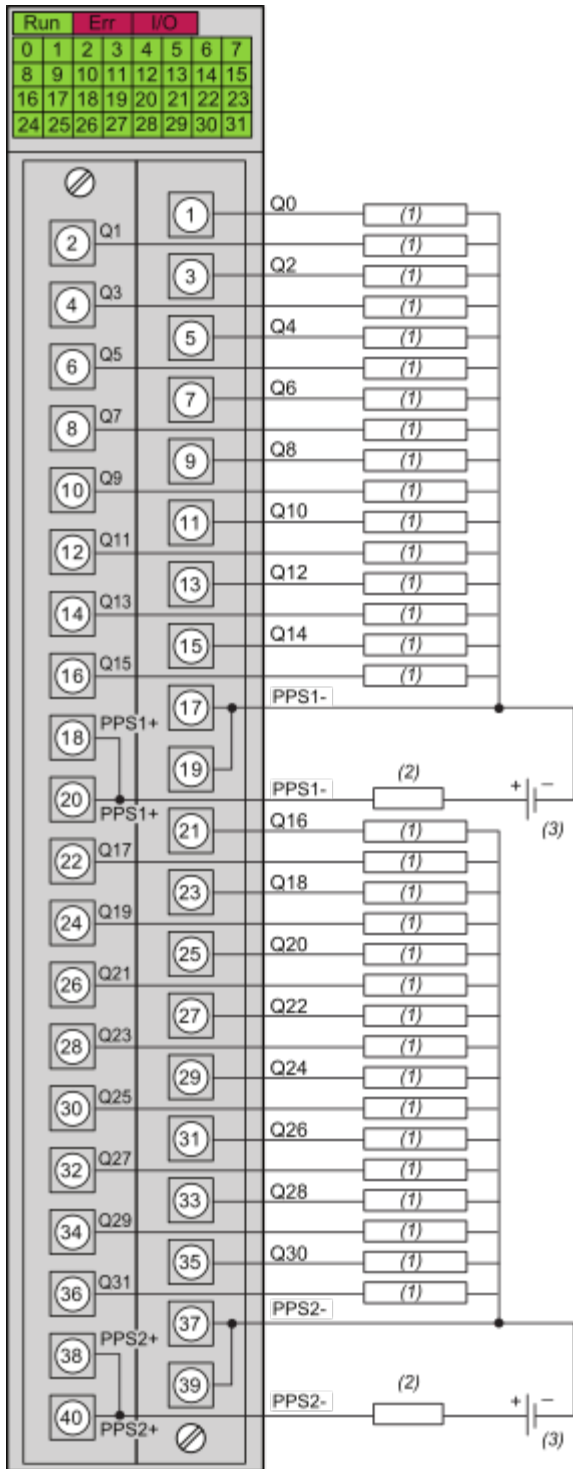
Connecting the Module

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





