

# Product data sheet

Specifications



discrete output module, Modicon X80, 32 transistor outputs, 24V DC positive

BMXDDO3202K

Product availability: Stock - Normally stocked in distribution facility

## Main

Range of Product	Modicon X80
Product or Component Type	Discrete output module
Discrete output number	32 IEC 61131-2
Discrete output type	Solid state
Discrete output logic	Positive
Discrete output voltage	24 V 19...30 V DC
Discrete output current	0.1 A

## Complementary

Current per channel	0.125 A
Maximum current per module	3.2 A
Maximum leakage current	0.1 mA at state 0
Maximum voltage drop	<1.5 V at state 1
Insulation resistance	> 10 MΩ 500 V DC
Power dissipation in W	3.6 W
Response time on output	1.2 ms
Paralleling of outputs	Yes : 3 maximum
Typical current consumption	125 mA 3.3 V DC
MTBF reliability	290000 H
Protection type	External fuse reverse polarity protection short-circuit protection overload protection overvoltage protection
Output overload protection	With current limiter With electronic circuit breaker $0.125 \text{ A} < I_d < 0.185 \text{ A}$
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	1.2 W
Switching frequency	0.5/LI <sup>2</sup> Hz
Maximum overload time	15 ms
Load impedance ohmic	$\geq 220 \text{ Ohm}$

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

<b>Status LED</b>	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
<b>Net Weight</b>	0.24 lb(US) (0.11 kg)

## Environment

<b>IP Degree of Protection</b>	IP20
<b>Directives</b>	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
<b>Dielectric strength</b>	1500 V AC 50/60 Hz 1 minute, output/ground 1500 V AC 50/60 Hz 1 minute, output/internal logic 500 V DC 1 minute, between group of channels
<b>Vibration resistance</b>	3 gn
<b>Shock resistance</b>	30 gn
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature for Operation</b>	32...140 °F (0...60 °C)
<b>Relative humidity</b>	5...95 % 131 °F (55 °C) without condensation
<b>Protective treatment</b>	Standard version
<b>Operating altitude</b>	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor

## Ordering and shipping details

<b>Category</b>	US1PC3418160
<b>Discount Schedule</b>	PC34
<b>GTIN</b>	3595863910476
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	2.126 in (5.400 cm)
<b>Package 1 Width</b>	4.331 in (11.000 cm)
<b>Package 1 Length</b>	4.724 in (12.000 cm)
<b>Package weight(Lbs)</b>	4.938 oz (140.000 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	15
<b>Package 2 Height</b>	5.906 in (15.000 cm)
<b>Package 2 Width</b>	11.811 in (30.000 cm)
<b>Package 2 Length</b>	15.748 in (40.000 cm)
<b>Package 2 Weight</b>	5.370 lb(US) (2.436 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	240
<b>Package 3 Height</b>	29.528 in (75.000 cm)

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<b>Package 3 Width</b>	23.622 in (60.000 cm)
<b>Package 3 Length</b>	31.496 in (80.000 cm)
<b>Package 3 Weight</b>	107.974 lb(US) (48.976 kg)

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## **Contractual warranty**

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<b>Warranty (in months)</b>	18
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## 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	41 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	19 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	21 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

### Use Better

#### Materials and Substances

Packaging made with recycled cardboard	Yes
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Fc3e0365-e8f4-4dab-a042-e2a76c4bf488
REACH Regulation	<a href="#">REACH Declaration</a>
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>

### Use Longer

#### Lifetime extension

Repair	No
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### Use Again

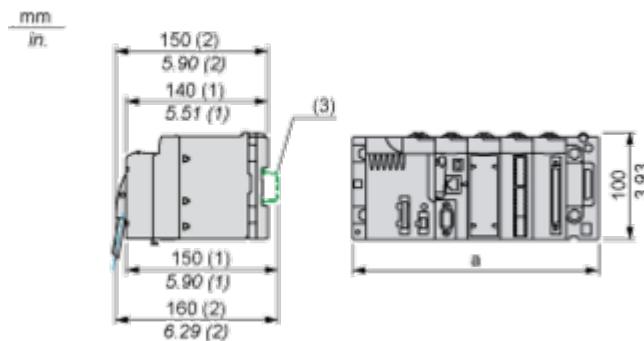
#### Repack and remanufacture

Circularity Profile	<a href="#">End of Life Information</a>
Take-back	No

## Dimensions Drawings

## Modules Mounted on Racks

## Dimensions



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

(2) With FCN connector.

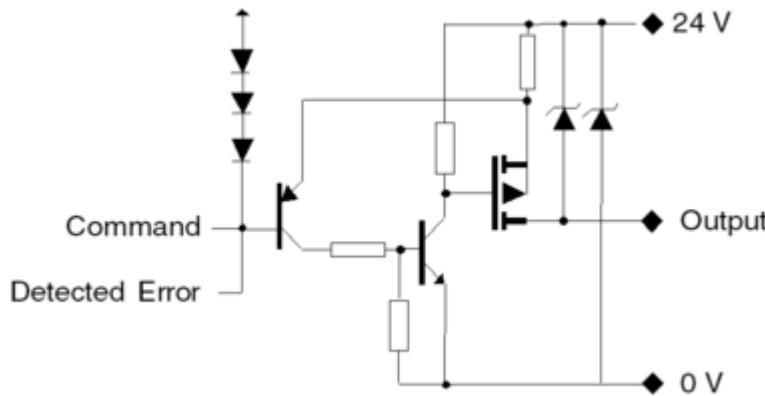
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

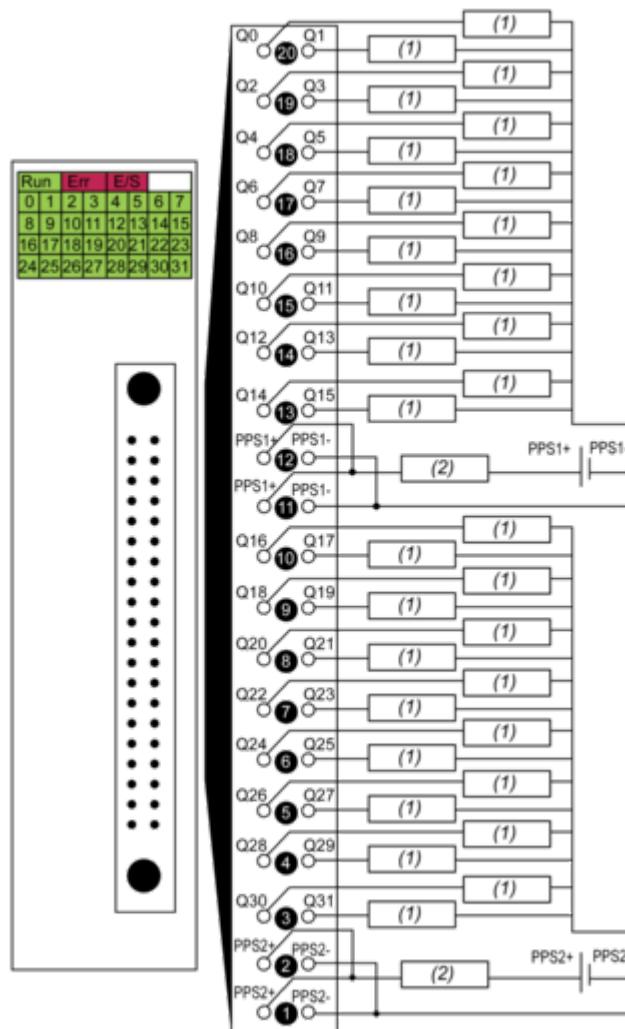
## Connections and Schema

## Connecting the Module

## Output Circuit Diagram



## Module Connection



(1) pre-actuator

(2) fuse: fast blow fuse of 2 A for each 16-channel group

**power supply** 24 VDC

**PPS** pre-actuator power supply

Image of product / Alternate images

Alternative



