Product datasheet

Specifications

discrete output module X80 - 64 outputs - 24 V DC positive

BMXDDO6402K

Main

Range of product	Modicon X80
Product or component type	Discrete output module
Discrete output number	64 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	0.1 A

Complementary

Current per channel	0.125 A
Maximum current per module	6.4 A
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	6.85 W
Response time on output	1.2 ms
Paralleling of outputs	Yes : 3 maximum
Typical current consumption	160 mA at 3.3 V DC
MTBF reliability	150000 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 A < Id < 0.185 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/LI² Hz
Maximum overload time	15 ms
Load impedance ohmic	>= 220 Ohm

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Status LED	1 LED (green) +32 channels indicator
	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	0.15 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
	500 V DC 1 minute, between group of channels
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	5.800 cm
Package 1 Width	11.300 cm
Package 1 Length	11.300 cm
Package 1 Weight	180.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.085 kg

Contractual warranty

Warranty	18 months

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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

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	**53**
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)**
SCIP Number	**E9e954e9-6f86-4d0f-b61c-767620a2bb40**
REACh Regulation	**[REACh Declaration](#)**
China RoHS Regulation	**[China RoHS declaration](#)**

Use Again

↻ Repack and remanufacture

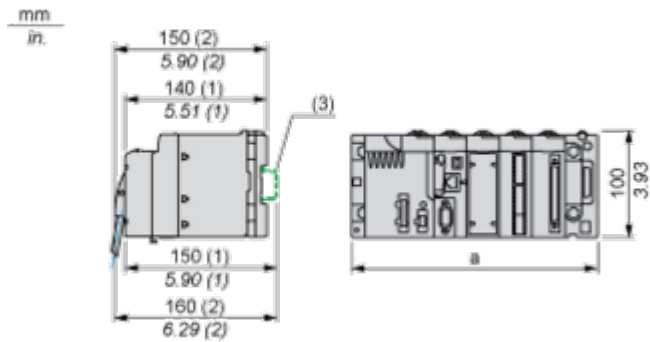| Circularity Profile	**End of Life Information**
WEEE	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**
Take-back	**No**

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Dimensions Drawings

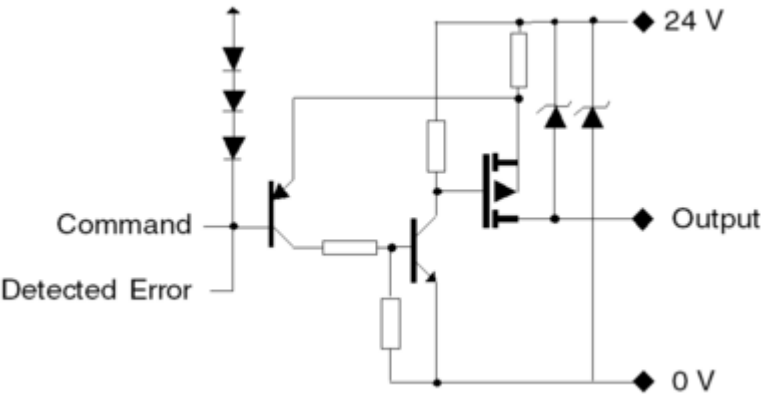## Modules Mounted on Racks

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.

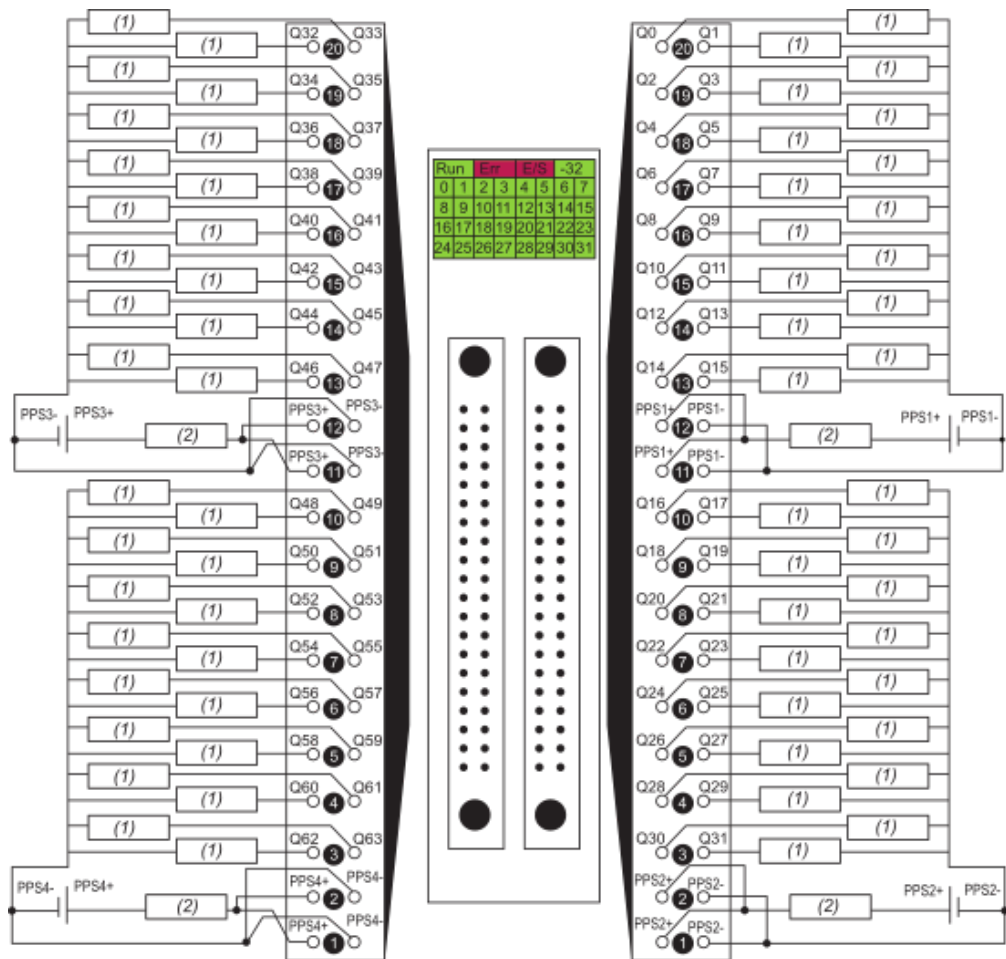| Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

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

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Image of product / Alternate images

Alternative