



Main

Range of product	Modicon X80
Product or component type	Discrete output module
Discrete output number	8 conforming to EN/IEC 61131-2
Discrete output type	Relay
Discrete output voltage	12...24 V 10...34 V DC 24...240 V 10...264 V AC

Complementary

[I _{th}] conventional free air thermal current	3 A
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	<= 2.7 W
Response time on output	<= 10 ms activation <= 8 ms deactivation
Typical current consumption	100 mA at 3.3 V DC
MTBF reliability	1573341 H
Protection type	External overload protection External short-circuit protection Overvoltage protection, inductive AC network Overvoltage protection, inductive DC network
Output overload protection	Use 1 fast blow fuse per channel or group of channel
Output overvoltage protection	Use discharge diode on each output DC Use RC circuit on each output AC Use ZNO surge limiter on each output AC
Output short-circuit protection	Use 1 fast blow fuse per channel or group of channel
Minimum switching current	1 mA 5 V DC
Electrical durability	1000000 cycles AC-12 50 VA 48 V 1000000 cycles DC-12 24 W 24 V 1000000 cycles DC-13 24 W 24 V 2000000 cycles AC-15 24 VA 48 V 0.35 2000000 cycles DC-13 10 W 24 V 300000 cycles DC-12 40 W 24 V 500000 cycles AC-12 110 VA 48 V 500000 cycles AC-15 10 VA 48 V 0.35 500000 cycles AC-15 24 VA 24 V 0.35 700000 cycles AC-12 50 VA 24 V 100000 cycles AC-15 220 VA 200...240 V 0.35 1000000 cycles AC-12 110 VA 110...120 V 1000000 cycles AC-12 220 VA 200...240 V 1000000 cycles AC-15 110 VA 200...240 V 0.35 10000000 cycles AC-15 10 VA 110...120 V 0.35 10000000 cycles AC-15 10 VA 200...240 V 0.35 150000 cycles AC-15 110 VA 110...120 V 0.35 1500000 cycles AC-15 50 VA 110...120 V 0.35 3000000 cycles AC-15 50 VA 200...240 V 0.35 500000 cycles AC-12 220 VA 110...120 V
Status LED	1 LED red module error (ERR) 1 LED green module operating (RUN) 1 LED per channel green channel diagnostic 1 LED red module I/O
Product weight	0.32 lb(US) (0.145 kg)

Environment

IP degree of protection	IP20
product certifications	CE CSA UL RCM Merchant Navy EAC
standards	EN/IEC 61131-2 EN/IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201
dielectric strength	2000 V AC at 50/60 Hz 1 min
vibration resistance	3 gn
shock resistance	30 gn
ambient air temperature for storage	-40...185 °F (-40...85 °C)
ambient air temperature for operation	32...140 °F (0...60 °C)
relative humidity	5...95 % without condensation 55 °C
protective treatment	TC
environmental characteristic	Corrosion resistance Dust resistant
operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m (with derating factor)

Offer Sustainability

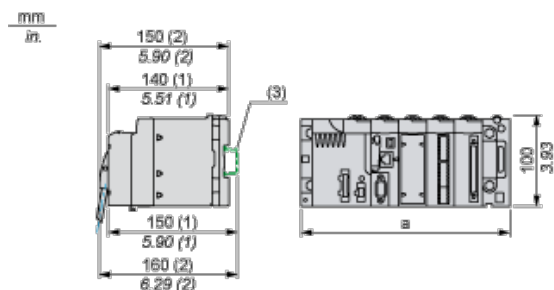
Green Premium product	Green Premium product
Compliant - since 0901 - Schneider Electric declaration of conformity	Compliant - since 0901 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available

Contractual warranty

Warranty period	18 months
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Modules Mounted on Racks

Dimensions

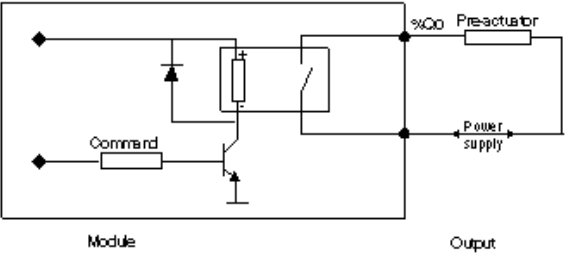


- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

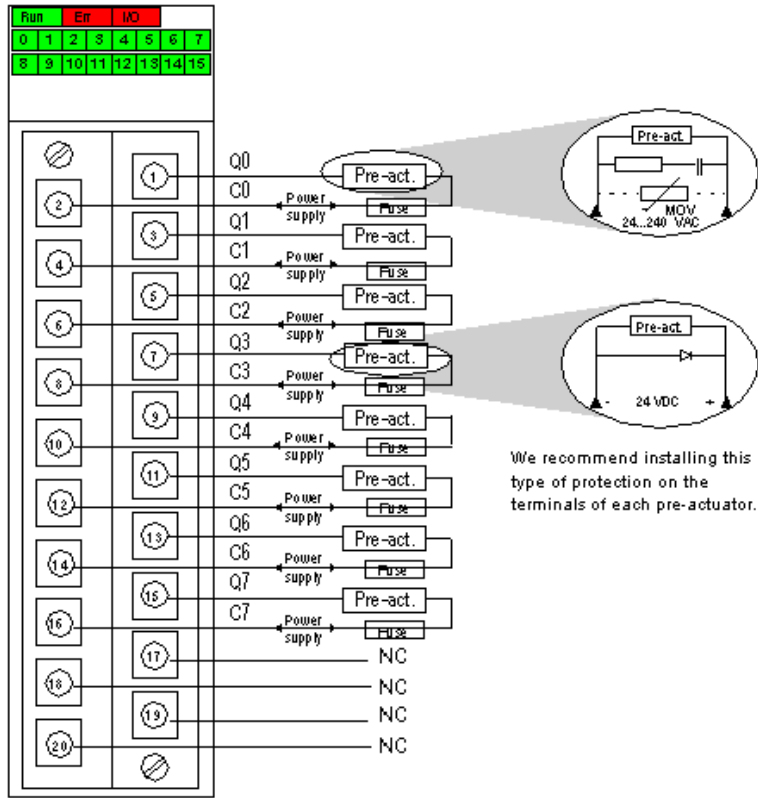
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

Output Circuit Diagram



Module Connection



power24 VDC or 24...240 VAC
supply
fuse 1 fast blow fuse of 3 A for each relay
NC not connected