



Main

Range of product	Modicon X80
Product or component type	Discrete output module
Product specific application	Extended temperature
Discrete output number	8 conforming to EN/IEC 61131-2
Discrete output type	Relay
Discrete output voltage	100...150 V DC

Complementary

Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	3.17 W
Response time on output	< 10 ms activation < 10 ms deactivation
Typical current consumption	61 mA at 3.3 V DC 104 mA at 24 V DC
Current consumption	<= 112 mA at 3.3 V DC <= 117 mA at 24 V DC
Output overload protection	Use 1 fast blow fuse per channel or group of channel
Output overvoltage protection	Use discharge diode on each output DC
Output short-circuit protection	Use 1 fast blow fuse per channel or group of channel
Maximum switching current	0.3 A
Minimum switching current	100 mA 5 V DC
Mechanical durability	20000000 cycles
Electrical durability	DC-12: 100000 cycles at 37 W 125 V DC-13: 100000 cycles at 12 W 125 V
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	0.145 kg

Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2
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...85 °C
Ambient air temperature for operation	-25...70 °C

Relative humidity	5...95 % at 55 °C without condensation
Protective treatment	Conformal coating
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 Weight	189 g
Package 1 Height	5.5 cm
Package 1 width	11 cm
Package 1 Length	12.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	2.835 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

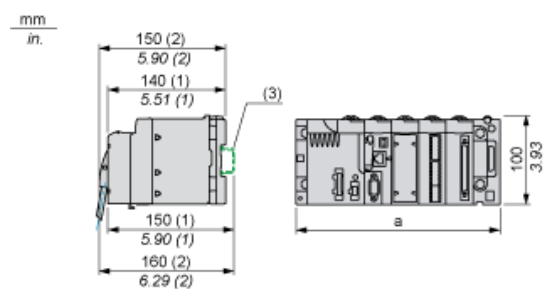
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
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

Contractual warranty

Warranty	18 months
----------	-----------

Modules Mounted on Racks

Dimensions

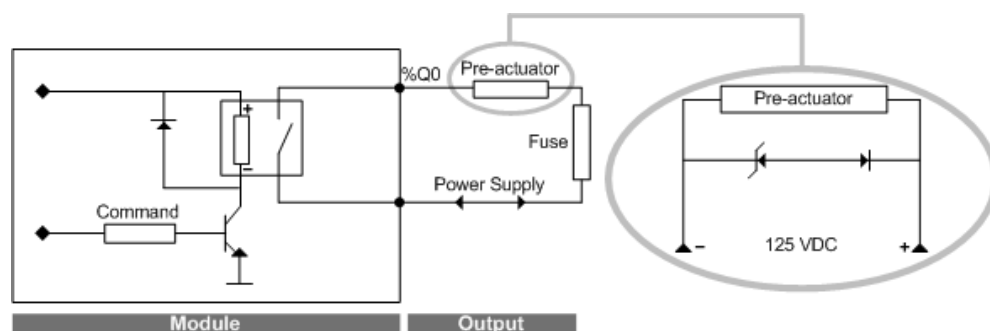


- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

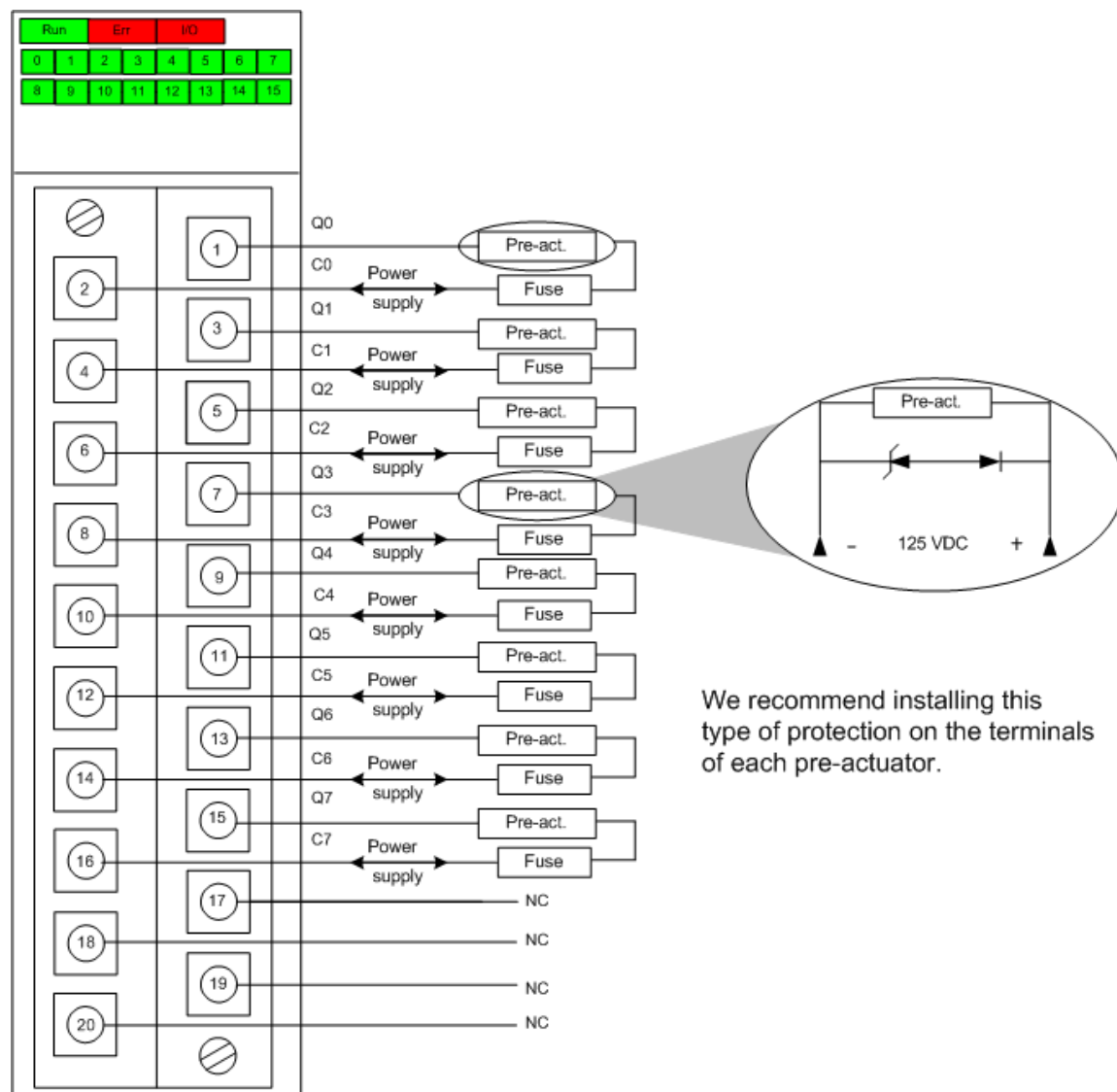
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

Output Circuit Diagram



Module Connection



We recommend installing this type of protection on the terminals of each pre-actuator.

power 125 VDC (100...150 VDC)

supply

fuse 1 fast blow fuse of 0.5 A, 250 VDC for each relay

NC not connected

NOTE: A Zener Diode voltage of 47 V or slightly higher is recommended.