



### Main

Range of Product	Modicon X80
Product or Component Type	Discrete output module
Discrete output number	32 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 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 <sup>2</sup> 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	5.01 oz (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 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...185 °F (-40...85 °C)
Ambient Air Temperature for Operation	32...140 °F (0...60 °C)
Relative humidity	5...95 % 131 °F (55 °C) without condensation
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor

## Ordering and shipping details

Category	18160-MODICON M340
Discount Schedule	PC34
GTIN	3606482177963
Returnability	Yes

## Packing Units

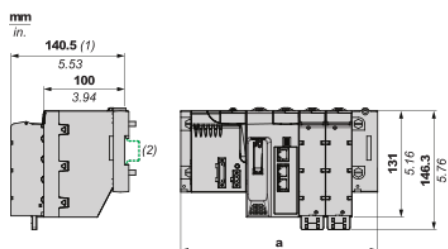
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	7.09 in (18 cm)
Package 1 Length	10.24 in (26 cm)
Package 1 Weight	10.93 oz (310 g)
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Height	118.11 in (300 cm)
Package 2 Width	118.11 in (300 cm)
Package 2 Length	157.48 in (400 cm)
Package 2 Weight	126.98 oz (3600 g)
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Height	275.59 in (700 cm)
Package 3 Width	236.22 in (600 cm)
Package 3 Length	314.96 in (800 cm)
Package 3 Weight	1192.24 oz (33800 g)

## Offer Sustainability

REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>

Modules Mounted on Racks

Dimensions



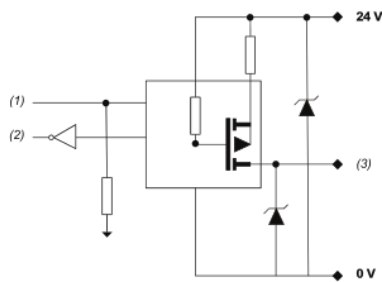
(1) With removable terminal block (cage, screw or spring).

(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
BMEXBP0400 and BMEXBP0400H	242.4	9.54
BMEXBP0800 and BMEXBP0800H	372.8	14.68
BMEXBP1200 and BMEXBP1200H	503.2	19.81
BMEXBP0602 and BMEXBP0602H	375.8	14.8
BMEXBP1002 and BMEXBP1002H	506.2	19.93

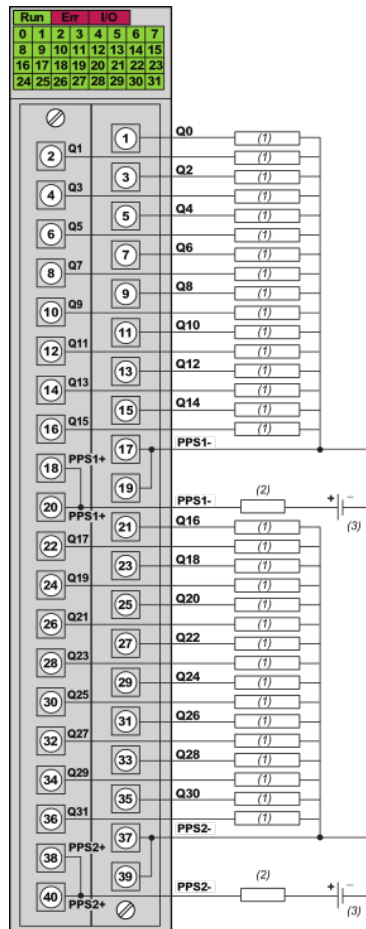
Connecting the Module

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