

Product data sheet

Specifications



Modicon Momentum - Modbus I/O module base - 6 I / 3 O

170ADM54080

Main

Range of product	Modicon Momentum automation platform
Product or component type	Modbus I/O module base
Group of channels	1 group of 6 discrete inputs 1 group of 3 discrete outputs
Discrete input number	6
Discrete output number	3
Number of port	1
Communication port protocol	Modbus
Wiring mode	2 or 4 wires

Complementary

Discrete input logic	Positive
Discrete input voltage	120 V AC 47...63 Hz 0...132 V AC
Input overvoltage protection	200 V
Voltage state 1 guaranteed	>= 79 V
Voltage state 0 guaranteed	<= 20 V
Current state 1 guaranteed	>= 5.5 mA
Current state 0 guaranteed	<= 1.9 mA
Discrete output logic	Positive
Discrete output voltage	120 V 47...63 Hz
Discrete output current	0.5 mA per point 1.5 mA per module
Maximum voltage drop	<1.5 V 0.5 A at state on
Maximum leakage current	1.9 mA AC 120 V
Surge current	30 mA
Response time	< 12.3 ms 60 Hz from state 1 to state 0 input circuit < 12.3 ms 60 Hz from state 1 to state 0 output circuit < 12.5 ms 60 Hz from state 0 to state 1 input circuit < 12.5 ms 60 Hz from state 0 to state 1 output circuit
Communication port support	RS485
Transmission rate	9600 bit/s 19200 bit/s

Data format	8-bit RTU 7-bit ASCII
Number of addresses	0...247
Port timeout	150 ms
Marking	CE
Electrical connection	2 connectors for removable terminal blocks
Current consumption	125 mA at 120 V
Net weight	0.24 kg

Environment

Product certifications	CSA UL
Protective treatment	TC
Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...1000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m

Packing Units

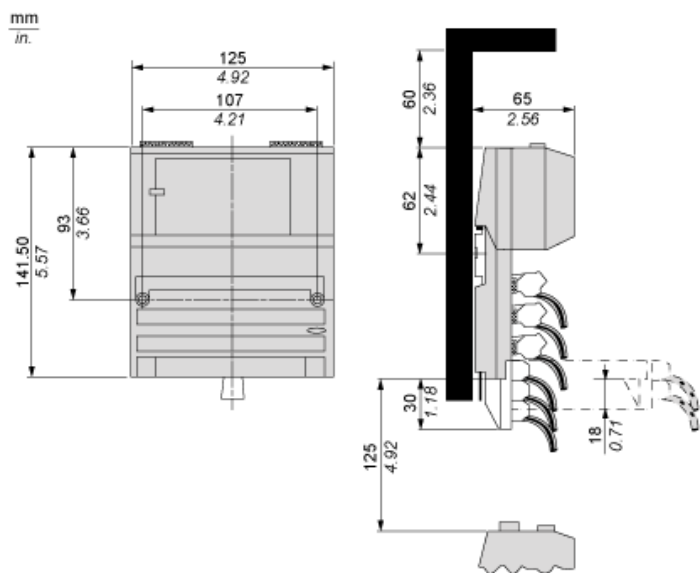
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	456.0 g
Package 1 Height	6.7 cm
Package 1 width	17.0 cm
Package 1 Length	21.0 cm
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Weight	3.514 kg
Package 2 Height	30.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 cm

Offer Sustainability

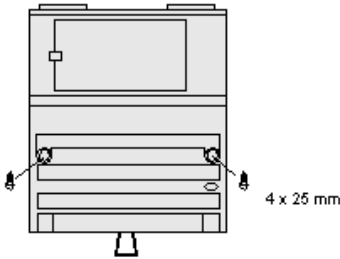
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product 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
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 www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months

Standard Adapter on a Discrete VAC Base

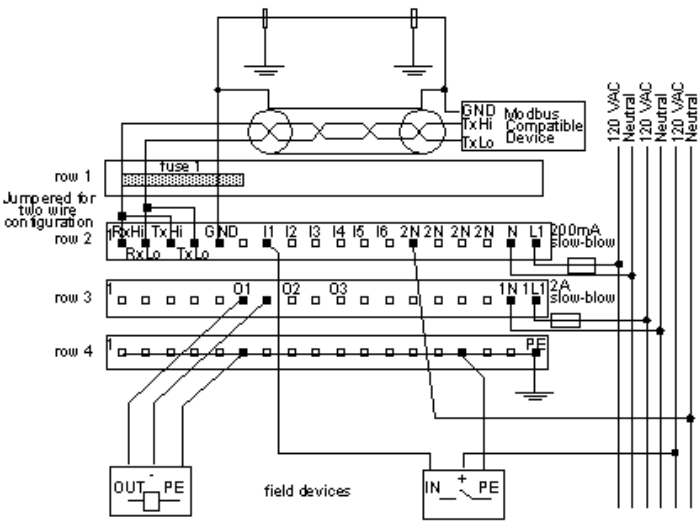


Mounting on a Wall



External Wiring Diagram

2-Wire Devices



Internal Pin Connections

Rows 1 through 3 show the internal connections between terminals on the I/O base. Row 4 shows the internal connections on the optional busbar.

