# **Product data sheet**





## discrete I/O module Modicon Momentum - 16 I/O relay

170ADM85010

### Main

Range Of Product	Modicon Momentum automation platform
Product Or Component Type	Discrete relay I/O base DC
Group Of Channels	1 group of 16 outputs 1 group of 16 inputs
Discrete Input Number	16 IEC 1131-2 Type 3
Discrete Input Logic	Positive
Discrete Input Voltage	24 V DC 12 V DC 48 V DC
Discrete Output Number	16
Discrete Output Type	Solid state switch
Discrete Output Voltage	<= 60 V DC 12 V DC 24 V DC 48 V DC
Discrete Output Logic	Positive
Protective Treatment	TC

#### Complementary

Complementary	
[Us] Rated Supply Voltage	12 V DC
	24 V DC
	48 V DC
Input Voltage Limits	1060 V
Voltage State 0 Guaranteed	< 10 V 48 V
	< 2.5 V 12 V
	< 5 V 24 V
Voltage State 1 Guaranteed	> 11 V 24 V
	> 30 V 48 V
	> 7.5 V 12 V
Current State 1 Guaranteed	2.3 mA 12 V
	2.7 mA 24 V
	2.9 mA 48 V
Discrete Output Current	0.5 A per point
	7 A 140 °F (60 °C) per module
	8 A 122 °F (50 °C) per group
Maximum Leakage Current	1 mA 60 V output circuit)
Peak Output Current	5 A
Maximum Voltage Drop	<1 V 0.5 A at state 1 output circuit
Fault Type	Overload on output

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Response Time	< 0.1 ms from state 0 to state 1 on output < 0.1 ms from state 1 to state 0 on output 2.2 ms from state 0 to state 1 on input 3.3 ms from state 1 to state 0 on input
Isolation Between Group Of I/O Channels	707 V DC
Isolation Between Channels And Bus	707 V DC
Power Dissipation	6.0 + (0.144 x number of input points) + (0.25 x number of output points)
Current Consumption	250 mA 24 V DC 125 mA 48 V DC 500 mA 12 V DC
Depth	1.87 in (47.5 mm)
Height	5.57 in (141.5 mm)
Width	4.92 in (125 mm)

### **Environment**

Product Certifications	FM Class 1 Division 2 UL CSA
Resistance To Electrostatic Discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance To Electromagnetic Fields	9.14 V/yd (10 V/m) 801000 MHz IEC 801-3
Ambient Air Temperature For Operation	32140 °F (060 °C)
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)
Relative Humidity	95 % without condensation
Operating Altitude	<= 5000 m

## **Packing Units**

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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 (18.0 cm)
Package 1 Length	10.24 in (26.0 cm)
Package 1 Weight	13.40 oz (380.0 g)
Unit Type Of Package 2	S03
Number Of Units In Package 2	8
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	7.66 lb(US) (3.476 kg)

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance



Mercury Free



Rohs Exemption Information

Yes

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information