Product data sheet

Specification





discrete input module, Modicon TM3, 8 inputs, screw, 120V AC

TM3DI8A

Main

Range Of Product	Modicon TM3	
Product Or Component Type	Discrete input module	
Range Compatibility	Modicon M241 Modicon M251 Modicon M221 Modicon M262	
Discrete Input Number	8 input IEC 61131-2 Type 1	
Discrete Input Voltage	120 V	
Discrete Input Current	7.5 mA input	

Complementary

Discrete I/O Number	8
Current Consumption	0 mA 24 V DC via bus connector at state on)
	0 mA 24 V DC via bus connector at state off)
	70 mA 5 V DC via bus connector at state on)
	25 mA 5 V DC via bus connector at state off)
Discrete Input Voltage Type	AC
Voltage State 1 Guaranteed	79132 V input
Current State 1 Guaranteed	215 mA input)
Voltage State 0 Guaranteed	020 V input
Current State 0 Guaranteed	<= 15 mA input)
Input Impedance	11 kOhm
Response Time	25 ms turn-on)
	30 ms turn-off)
Local Signalling	Input status 1 LED per channel green)
Electrical Connection	11 x 2.5 mm² removable screw terminal block pitch 5.08 mm for inputs
Insulation	Non-insulated between inputs
	Between input and internal logic 1500 V AC
	Between input groups 1500 V AC
Marking	CE
Mounting Support	Top hat type TH35-15 rail IEC 60715
	Top hat type TH35-7.5 rail IEC 60715
	plate or panel with fixing kit
Height	3.54 in (90 mm)
Depth	3.33 in (84.6 mm)
Width	1.08 in (27.4 mm)

Environment

Standards	IEC 61131-2
Product Certifications	cULus CE UKCA RCM
	EAC
	cULus HazLoc
Resistance To Electrostatic	8 kV in air IEC 61000-4-2
Discharge	4 kV on contact IEC 61000-4-2
Resistance To Electromagnetic	9.14 V/yd (10 V/m) 80 MHz1 GHz IEC 61000-4-3
Fields	2.74 V/yd (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3
	0.91 V/yd (1 V/m) 2 GHz3 GHz IEC 61000-4-3
Resistance To Magnetic Fields	98.43 A/ft (30 A/m) 50/60 Hz IEC 61000-4-8
Resistance To Fast Transients	1 kV I/OIEC 61000-4-4
Surge Withstand	2 kV I/O common mode IEC 61000-4-5 AC
Resistance To Conducted	10 V 0.1580 MHz IEC 61000-4-6
Disturbances	3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) Marine specification (LR, ABS, DNV, GL)
Electromagnetic Emission	Radiated emissions 40 dBµV/m QP class A 10 m)30230 MHz IEC 55011 Radiated emissions 47 dBµV/m QP class A 10 m)2301000 MHz IEC 55011
Ambient Air Temperature For	1495 °F (-1035 °C) vertical installation
Operation	14131 °F (-1055 °C) horizontal installation
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
Relative Humidity	1095 %, without condensation in operation)
	1095 %, without condensation in storage)
Ip Degree Of Protection	IP20 with protective cover in place
Pollution Degree	2
Operating Altitude	02000 m
Storage Altitude	0.009842.52 ft (03000 m)
Vibration Resistance	3.5 mm 58.4 Hz DIN rail
	3 gn 8.4150 Hz DIN rail
	3.5 mm 58.4 Hz panel
	3 gn 8.4150 Hz panel
Shock Resistance	15 gn 11 ms

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.95 in (7.5 cm)
Package 1 Width	4.13 in (10.5 cm)
Package 1 Length	4.92 in (12.5 cm)
Package 1 Weight	8.11 oz (230.0 g)
Unit Type Of Package 2	S04
Number Of Units In Package 2	42
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	15.75 in (40.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	21.78 lb(US) (9.88 kg)



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

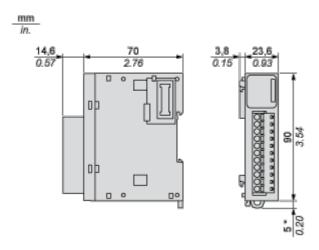
⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
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

Dimensions Drawings

Dimensions



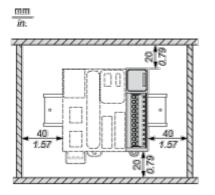
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

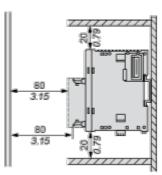
Product data sheet

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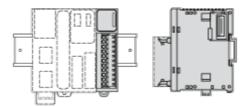
Mounting and Clearance

Spacing Requirements

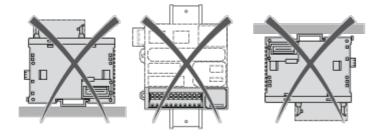




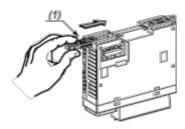
Mounting on a Rail



Incorrect Mounting

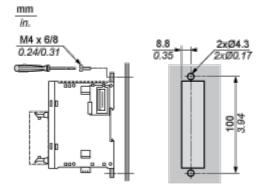


Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

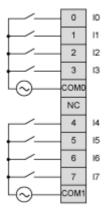


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Connections and Schema

Digital Input Module (8-channel, 120 Vac)

Wiring Diagram



The COM0 and COM1 terminal are **not** connected internally.