Specifications





Modicon TM3, Discrete input module, 8 inputs (screw) 120 VAC

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 for input conforming to IEC 61131-2 Type 1
Discrete Input Voltage	120 V
Discrete Input Current	7.5 mA for input

Complementary

Discrete I/O Number	8
Current Consumption	0 mA at 24 V DC via bus connector (at state on) 0 mA at 24 V DC via bus connector (at state off) 70 mA at 5 V DC via bus connector (at state on) 25 mA at 5 V DC via bus connector (at state off)
Discrete Input Voltage Type	AC
Voltage State 1 Guaranteed	79132 V for input
Current State 1 Guaranteed	215 mA (input)
Voltage State 0 Guaranteed	020 V for input
Current State 0 Guaranteed	<= 15 mA (input)
Input Impedance	11 kOhm
Response Time	25 ms (turn-on) 30 ms (turn-off)
Local Signalling	1 LED per channel (green) for input status
Electrical Connection	11 x 2.5 mm ² removable screw terminal block with pitch 5.08 mm adjustment for inputs
Insulation	Non-insulated between inputs Between input and internal logic at 1500 V AC Between input groups at 1500 V AC
Marking	CE
Mounting Support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 plate or panel with fixing kit
Height	90 mm
Depth	84.6 mm
Width	27.4 mm

Environment

Standards	IEC 61131-2
Product Certifications	cULus
	CE
	UKCA
	RCM
	EAC
	cULus HazLoc
Resistance To Electrostatic	8 kV in air conforming to IEC 61000-4-2
Discharge	4 kV on contact conforming to IEC 61000-4-2
Resistance To Electromagnetic	10 V/m 80 MHz1 GHz conforming to IEC 61000-4-3
Fields	3 V/m 1.4 GHz2 GHz conforming to IEC 61000-4-3
	1 V/m 2 GHz3 GHz conforming to IEC 61000-4-3
Resistance To Magnetic Fields	30 A/m 50/60 Hz conforming to IEC 61000-4-8
Resistance To Fast Transients	1 kV for I/O conforming to IEC 61000-4-4
Surge Withstand	2 kV I/O common mode conforming to IEC 61000-4-5 AC
Resistance To Conducted	10 V 0.1580 MHz conforming to 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) conforming to
	Marine specification (LR, ABS, DNV, GL)
Electromagnetic Emission	Radiated emissions - test level: 40 dBµV/m QP class A (10 m) at 30…230 MHz
	conforming to IEC 55011
	Radiated emissions - test level: 47 dBµV/m QP class A (10 m) at 2301000 MHz
	conforming to IEC 55011
Amhient Air Temperature For	-1035 °C vertical installation
Ambient Air Temperature For Operation	-1055 °C horizontal installation
Ambient Air Temperature For	-2570 °C
Storage	
Relative Humidity	1095 %, without condensation (in operation)
	1095 %, without condensation (in storage)
lp Degree Of Protection	IP20 with protective cover in place
Pollution Degree	2
Operating Altitude	02000 m
Storage Altitude	03000 m
Vibration Resistance	3.5 mm at 58.4 Hz on DIN rail
	3 gn at 8.4150 Hz on DIN rail
	3.5 mm at 58.4 Hz on panel
	3 gn at 8.4150 Hz on panel
Chask Desistans -	
Shock Resistance	15 gn for 11 ms

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	10.5 cm
Package 1 Length	12.5 cm
Package 1 Weight	230.0 g
Unit Type Of Package 2	S04
Number Of Units In Package 2	42
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm

Package 2 Weight

9.88 kg

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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

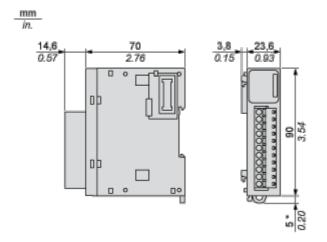
Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
FIGERE

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

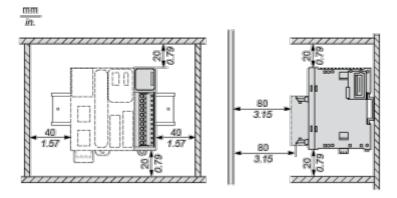
Dimensions



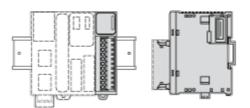
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

Spacing Requirements

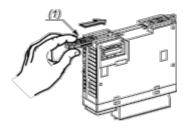


Mounting on a Rail



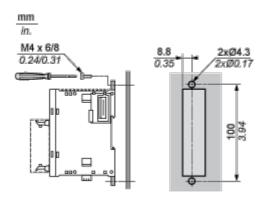
Incorrect Mounting





(1) Install a mounting strip

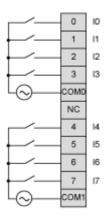
Mounting Hole Layout



Connections and Schema

Digital Input Module (8-channel, 120 Vac)

Wiring Diagram



The COM0 and COM1 terminal are not connected internally.