Product datasheet Characteristics

TM3DI8A module TM3 - 8 inputs 120V AC



Main

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Range of product	Modicon TM3	- January Park
Product or component type	Discrete input module	<u> </u>
Range compatibility	Modicon M221 Modicon M251 Modicon M241	Spillbon
Discrete input number	8 input conforming to IEC 61131-2 Type 1	
Discrete input voltage	120 V	
Discrete input current	7.5 mA for input	<u> </u>

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 state1 guaranteed	79132 V for input
Current state 1 guaranteed	215 mA for input
Voltage state 0 guaranteed	020 V for input
Current state 0 guaranteed	015 mA for input
Input impedance	11 kOhm
Response time	25 ms for turn-on 30 ms for turn-off
Local signalling	Green for input status
Electrical connection	Removable screw terminal block pitch 5.08 mm with 11 terminal(s) of 2.5 mm² connection capacity for inputs
Insulation	Non-insulated between inputs 1500 V AC between input and internal logic 1500 V AC between input groups
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

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Standards	EN/IEC 61131-2 EN/IEC 61010-2-201
Product certifications	CULus C-Tick
Resistance to electrostatic discharge	4 kV (on contact) conforming to EN/IEC 61000-4-2 8 kV (in air) conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m at 80 MHz1 GHz conforming to EN/IEC 61000-4-3 3 V/m at 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3 1 V/m at 2 GHz3 GHz conforming to EN/IEC 61000-4-3
Resistance to magnetic fields	30 A/m at 5060 Hz conforming to EN/IEC 61000-4-8
Resistance to fast transients	1 kV for I/O conforming to EN/IEC 61000-4-4
Surge withstand	2 kV for I/O (AC) in common mode conforming to EN/IEC 61000-4-5
Resistance to conducted disturbances, induced by radio frequency fields	10 Vrms at 0.1580 MHz conforming to EN/IEC 61000-4-6 3 Vrms at 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 dB μ V/m QP with class A, condition of test: 10 m (radio frequency: 30230 MHz) conforming to EN/IEC 55011 Radiated emissions, test level: 47 dB μ V/m QP with class A, condition of test: 10 m (radio frequency: 230 MHz1 GHz) conforming to EN/IEC 55011
Ambient air temperature for operation	-1055 °C for horizontal installation -1035 °C for vertical installation
Ambient air temperature for storage	-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	03000 m
Vibration resistance	3.5 mm (vibration frequency: 58.4 Hz) on DIN rail 3 gn (vibration frequency: 8.4150 Hz) on DIN rail 3.5 mm (vibration frequency: 58.4 Hz) on panel 3 gn (vibration frequency: 8.4150 Hz) on panel
Shock resistance	15 gn (test wave duration:11 ms)

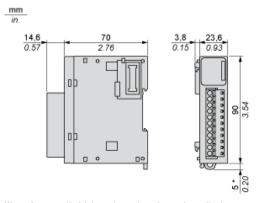
Offer Sustainability

Offer Sustainability		
Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1348 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	Product environmental	
Product end of life instructions	Available	
	🚰 End of life manual	

Product datasheet Dimensions Drawings

TM3DI8A

Dimensions

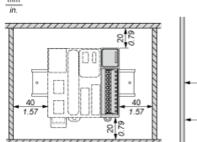


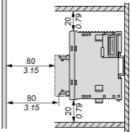
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Product datasheet Mounting and Clearance

TM3DI8A

Spacing Requirements

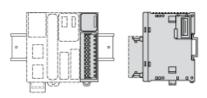




Product datasheet Mounting and Clearance

TM3DI8A

Mounting on a Rail



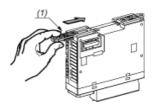
Incorrect Mounting



Product datasheet Mounting and Clearance

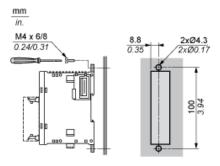
TM3DI8A

Mounting on a Panel Surface



(1) Install a mounting strip

Mounting Hole Layout

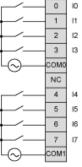


Product datasheet Connections and Schema

TM3DI8A

Digital Input Module (8-channel, 120 Vac)

Wiring Diagram



The COM0 and COM1 terminal are not connected internally.