Product datasheet Characteristics

TM3DI8A module TM3 - 8 inputs 120V AC



Main

Main		-
Range of product	Modicon TM3	
Product or component type	Discrete input module	ة ح
Range compatibility	Modicon M251 Modicon M241 Modicon M221	
Discrete input number	8 input conforming to IEC 61131-2 Type 1	0
Discrete input voltage	120 V	
Discrete input current	7.5 mA for input	

Complementary

Main		
Range of product	Modicon TM3	
Product or component type	Discrete input module	
Range compatibility	Modicon M251 Modicon M241 Modicon M221	
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	
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 for input	
Voltage state 0 guaranteed	020 V for input	
Current state 0 guaranteed	<= 15 mA for input	
Input impedance	11 kOhm	
Response time	25 ms for turn-on	
	30 ms for turn-off	
Local signalling	1 LED per channel green for input status	
Electrical connection	Removable screw terminal block pitch 5.08 mm with 11 terminal(s) of 2.5 mm ² 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	
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	Plate or panel with fixing kit
Height	90 mm
Depth	84.6 mm
Width	27.4 mm

Environment

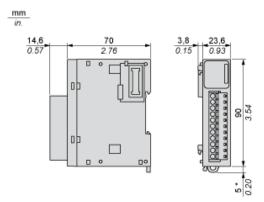
Standards	EN/IEC 61131-2 EN/IEC 61010-2-201	
Product certifications	C-Tick cULus	
Resistance to electrostatic discharge	4 kV (on contact) conforming to EN/IEC 61000-4-2 8 kV (in air) conforming to EN/IEC 61000-4-2	
Resistance to electromagnetic fields	10 V/m at 80 MHz1 GHz conforming to EN/IEC 61000-4-3 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 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	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

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	
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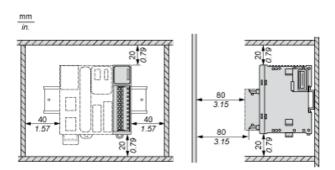
Product datasheet Dimensions Drawings

Dimensions



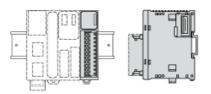
 $(^{*})$ $\,$ 8.5 mm/0.33 in. when the clamp is pulled out.

Spacing Requirements

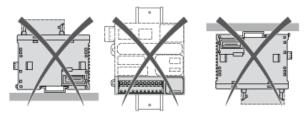


Product datasheet Mounting and Clearance

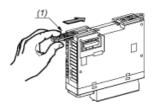
Mounting on a Rail



Incorrect Mounting

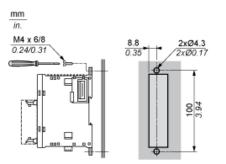


Mounting on a Panel Surface



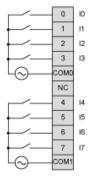
(1) Install a mounting strip

Mounting Hole Layout



Digital Input Module (8-channel, 120 Vac)

Wiring Diagram



The COM0 and COM1 terminal are not connected internally.