#### TM3DI8A

Discrete input current

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





# Main Range of product Modicon TM3 Product or component type Discrete input module Range compatibility Modicon M241 Modicon M251 Modicon M221 Modicon M221 Modicon M262 Discrete input number 8 for input conforming to IEC 61131-2 Type 1 Discrete input voltage 120 V

7.5 mA for input

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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	EN/IEC 61010-2-201 EN/IEC 61131-2		
Product certifications	CULus C-Tick		
Resistance to electrostatic discharge	8 KV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2		
Resistance to electromagnetic fields	10 V/M 80 MHz1 GHz conforming to EN/IEC 61000-4-3 3 V/M 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3		
Resistance to magnetic fields	30 A/m 50/60 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 I/O common mode conforming to EN/IEC 61000-4-5 AC				
Resistance to conducted disturbances	10 V 0.1580 MHz conforming to EN/IEC 61000-4-6 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 30230 MHz conforming to EN/IEC 55011 Radiated emissions - test level: 47 dBμV/m QP class A ( 10 m) at 2301000 MHz conforming to EN/IEC 55011				
Ambient air temperature for operation	-1035 °C vertical installation -1055 °C horizontal 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 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				
Shock resistance	15 gn for 11 ms				
Packing Units					
Package 1 Weight	230.000 g				
Package 1 Height	75.000 mm				
Package 1 width	105.000 mm				
Package 1 Length	125.000 mm				
Offer Sustainability					
Sustainable offer status	Green Premium product				
REACh Regulation	€ REACh Declaration				
REACh free of SVHC	Yes				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEU RoHS  Declaration				
Toxic heavy metal free	Yes				
Mercury free	Yes				

Yes

Yes

China RoHS Declaration

End Of Life Information

Product Environmental Profile

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

RoHS exemption information

China RoHS Regulation

**Environmental Disclosure** 

Circularity Profile

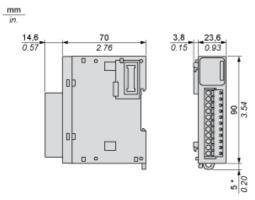
WEEE

PVC free

# Product data sheet Dimensions Drawings

# TM3DI8A

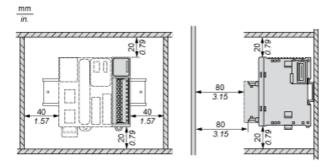
#### **Dimensions**



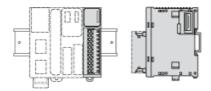
(\*) 8.5 mm/0.33 in. when the clamp is pulled out.

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#### Spacing Requirements



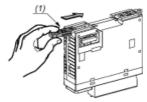
#### Mounting on a Rail



#### **Incorrect Mounting**

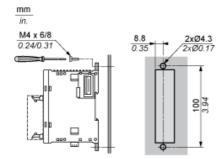


#### Mounting on a Panel Surface



(1) Install a mounting strip

#### Mounting Hole Layout

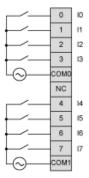


### Product data sheet Connections and Schema

## TM3DI8A

#### Digital Input Module (8-channel, 120 Vac)

#### Wiring Diagram



The COM0 and COM1 terminal are not connected internally.