TM3DI16

module TM3 - 16 inputs



Main

Range of product	Modicon TM3
Product or component type	Discrete input module
Range compatibility	Modicon M221 Modicon M241 Modicon M251
Discrete input number	16 input conforming to IEC 61131-2 type 3
Discrete input logic	Sink or source (positive/negative)
Discrete input voltage	24 V
Discrete input current	7 mA for input

Complementary

Discrete I/O number	16
Current consumption	5 mA at 5 V DC via bus connector at state off 0 mA at 24 V DC via bus connector at state on 0 mA at 24 V DC via bus connector at state off 40 mA at 5 V DC via bus connector at state on
Discrete input voltage type	DC
Voltage state1 guaranteed	1528.8 V for input
Current state 1 guaranteed	>= 2.5 mA for input
Voltage state 0 guaranteed	05 V for input
Current state 0 guaranteed	<= 1 mA for input
Input impedance	3.4 kOhm
Response time	4 ms for turn-on 4 ms for turn-off
Local signalling	1 LED per channel green for input status
Electrical connection	Removable screw terminal block pitch 3.81 mm with 10 terminal(s) of 1.5 mm ² connection capacity for inputs
Cable length	<= 50 m unshielded cable cable for regular input
Insulation	Non-insulated between inputs 500 V AC between input and internal logic
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	70 mm
Depth	84.6 mm
Width	27.3 mm
Product weight	0.1 kg

Environment

Standards	EN/IEC 61131-2 EN/IEC 61010-2-201	
Product certifications	C-Tick CULus	
Resistance to electrostatic discharge	In air - EN/IEC 61000-4-2 On contact - EN/IEC 61000-4-2	
Resistance to electromagnetic fields	10 V/m (80 MHz1 GHz) - EN/IEC 61000-4-3 3 V/m (1.4 GHz2 GHz) - EN/IEC 61000-4-3 1 V/m (2 GHz3 GHz) - EN/IEC 61000-4-3	
Resistance to magnetic fields	30 A/m (5060 Hz) - EN/IEC 61000-4-8	
Resistance to fast transients	1 kV for I/O - EN/IEC 61000-4-4	
Surge withstand	1 kV for I/O (DC) in common mode - EN/IEC 61000-4-5	
·		





Resistance to conducted disturbances, induced by frequency fields	radio 10 Vrms (0.1580 MHz) - EN/IEC 61000-4-6 3 Vrms (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 - EN/IEC 55011 class A 10 m, 230 MHz1 GHz : 47 dBµV/m QP Radiated emissions - EN/IEC 55011 class A 10 m, 30230 MHz : 40 dBµV/m QP
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)

