Product datasheet Characteristics

TM3DQ8R module TM3 - 8 outputs relays



Main

Wall		c.
Range of product	Modicon TM3	
Product or component type	Discrete output module	Ç V
Range compatibility	Modicon M251 Modicon M241 Modicon M221	
Discrete output type	Relay normally open	
Discrete output number	8	
Discrete output logic	Positive or negative	
Discrete output voltage	24 V DC for relay output 240 V AC	tation of the second
Discrete output current	2000 mA for relay output	

Complementary

Main	
Range of product	Modicon TM3
Product or component type	Discrete output module
Range compatibility	Modicon M251 Modicon M241
	Modicon M221
Discrete output type	Relay normally open
Discrete output number	8
Discrete output logic	Positive or negative
Discrete output voltage	24 V DC for relay output
	240 V AC
Discrete output current	2000 mA for relay output
Complementary	
Discrete I/O number	8
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 off 40 mA at 24 V DC via bus connector at state on
	30 mA at 5 V DC via bus connector at state on
Response time	10 ms for turn-on
	5 ms for turn-off
Mechanical durability	2000000 cycles
Minimum load	10 mA at 5 V DC for relay output
Local signalling	1 LED per channel green for output status
Electrical connection	Removable screw terminal block pitch 5.08 mm with 11 terminal(s) of 2.5 mm ² connection capacity for outputs
Max cable distance between devices	Unshielded cable: 30 m for relay output
Insulation	2300 V AC between output and internal logic 750 V AC between outputs 1500 V AC between output 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
Par 10, 2017	

	Plate or panel with fixing kit
Height	90 mm
Depth	84.6 mm
Width	27.4 mm
Product weight	0.11 kg

Environment

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 conforming to EN/IEC 61000-4-8	
Resistance to fast transients	2 kV for relay output conforming to EN/IEC 61000-4-4	
Surge withstand	1 kV for I/O (DC) 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 dBµV/m QP with class A, condition of test: 10 m (radio frequency: 30230 MHz) conforming to EN/IEC 55011 Radiated emissions, test level: 47 dBµV/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)	

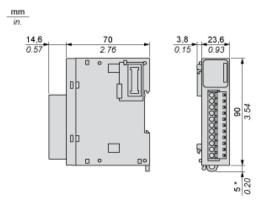
Offer Sustainability

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	
	Pend of life manual	

Product datasheet Dimensions Drawings

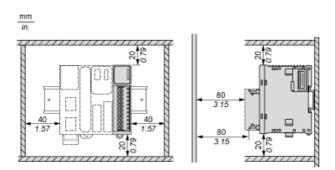
TM3DQ8R

Dimensions



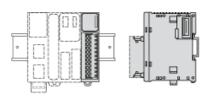
 $(^{*})$ $\,$ 8.5 mm/0.33 in. when the clamp is pulled out.

Spacing Requirements

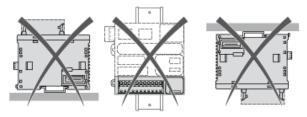


Product datasheet Mounting and Clearance TM3DQ8R

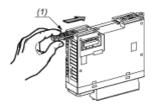
Mounting on a Rail



Incorrect Mounting

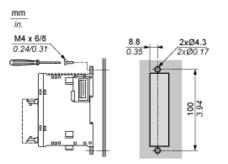


Mounting on a Panel Surface



(1) Install a mounting strip

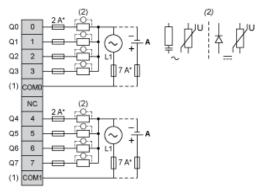
Mounting Hole Layout



TM3DQ8R

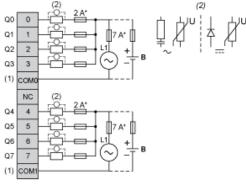
Digital Relay Output Module (8-channel)

Wiring Diagram (Positive Logic)



- (*) Type T Fuse
- (1) The COM0 and COM1 terminals are not connected internally.
- (2) To improve the life time of the contacts, and to protect from potential inductive load damage, it is recommended to connect a free wheeling diode in para
- (A) Source wiring (positive logic)

Wiring Diagram (Negative Logic)



- (*) Type T fuse
- (1) The COM0 and COM1 terminals are not connected internally.
- (2) To improve the life time of the contacts, and to protect from potential inductive load damage, it is recommended to connect a free wheeling diode in para
- (B) Sink wiring (negative logic)