Product datasheet Characteristics

TM3DQ16RG module TM3 - 16 outputs relays spring



Main

Main		-
Range of product	Modicon TM3	
Product or component type	Discrete output module	
Range compatibility	Modicon M241 Modicon M221 Modicon M251	
Discrete output type	Relay normally open	
Discrete output number	16	
Discrete output logic	Positive logic (source)	
Discrete output voltage	240 V AC for relay output 30 V DC for relay output	interview Abritice
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 M241 Modicon M221 Modicon M251	
Discrete output type	Relay normally open	
Discrete output number	16	
Discrete output logic	Positive logic (source)	
Discrete output voltage	240 V AC for relay output 30 V DC for relay output	
Discrete output current	2000 mA for relay output	
Complementary Discrete I/O number	16	
Discrete I/O number Current consumption	16 0 mA at 24 V DC via bus connector at state off	
	75 mA at 24 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	Green for output status	
Electrical connection	Removable spring terminal block pitch 3.81 mm with 10 terminal(s) of 1.5 mm ² connection capacity for outputs	
Cable length	<= 30 m unshielded cable 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 Plate or panel with fixing kit	

Height	90 mm	
Depth	84.6 mm	
Width	27.4 mm	
Product weight	0.145 kg	

Environment

Standards Product certifications	EN/IEC 61010-2-201 EN/IEC 61131-2 C-Tick
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 at 5060 Hz 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, 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 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)

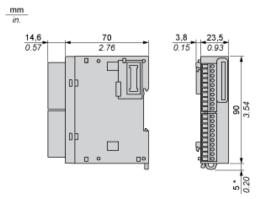
Offer Sustainability

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	
	🛃 End of life manual	

Product datasheet Dimensions Drawings

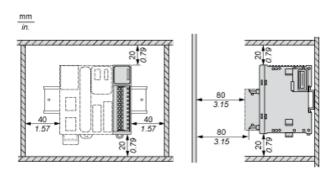
TM3DQ16RG

Dimensions

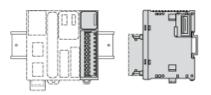


 $(^{*})$ $\,$ 8.5 mm/0.33 in. when the clamp is pulled out.

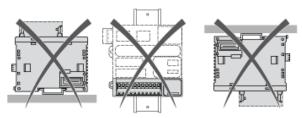
Spacing Requirements



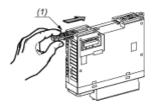
Mounting on a Rail



Incorrect Mounting

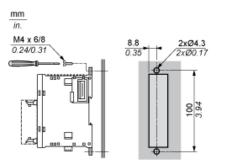


Mounting on a Panel Surface



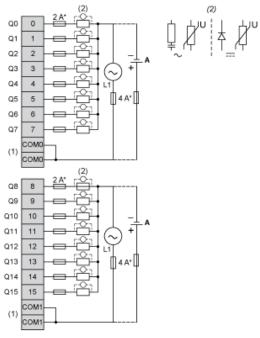
(1) Install a mounting strip

Mounting Hole Layout



Digital Relay Output Module (16-channel)

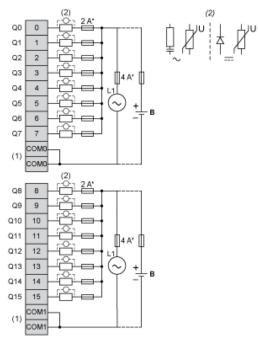
Wiring Diagram (Positive Logic)



(*) 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) (2)
- The COM0 and COM1 terminals are not connected internally. 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 parallel
- (B) Sink wiring (negative logic)