Product datasheet

Specifications

Green Premium™

Modicon TM3 - 16 relay outputs (spring) 24Vdc

TM3DQ16RG

EAN Code: 3606480611452

Main

Range Of Product	Modicon TM3
Product Or Component Type	Discrete output module
Range Compatibility	Modicon M241 Modicon M251 Modicon M221 Modicon M262
Discrete Output Type	Relay normally open
Discrete Output Number	16
Discrete Output Logic	Positive or negative
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
Current Consumption	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 (turn-on) 5 ms (turn-off)
Mechanical Durability	20000000 cycles
Minimum Load	10 mA at 5 V DC for relay output
Local Signalling	1 LED per channel (green) for output status
Electrical Connection	10 x 1.5 mm² removable spring terminal block with pitch 3.81 mm adjustment for outputs
Maximum Cable Distance Between Devices	Unshielded cable: <30 m for relay output
Insulation	Between output and internal logic at 2300 V AC Between outputs at 750 V AC Between output 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
Net Weight	0.145 kg

Life Is On Schneider Electric

Environment

Standards	IEC 61131-2
Product Certifications	cULus CE UKCA RCM EAC cULus HazLoc
Resistance To Electrostatic Discharge	8 kV in air conforming to IEC 61000-4-2 4 kV on contact conforming to IEC 61000-4-2
Resistance To Electromagnetic Fields	10 V/m 80 MHz...1 GHz conforming to IEC 61000-4-3 3 V/m 1.4 GHz...2 GHz conforming to IEC 61000-4-3 1 V/m 2 GHz...3 GHz conforming to IEC 61000-4-3
Resistance To Magnetic Fields	30 A/m 50/60 Hz conforming to IEC 61000-4-8
Resistance To Fast Transients	2 kV for relay output conforming to IEC 61000-4-4
Surge Withstand	1 kV I/O common mode conforming to IEC 61000-4-5 DC
Resistance To Conducted Disturbances	10 V 0.15...80 MHz conforming to 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 30…230 MHz conforming to IEC 55011 Radiated emissions - test level: 47 dBµV/m QP class A (10 m) at 230…1000 MHz conforming to IEC 55011
Ambient Air Temperature For Operation	-10…35 °C vertical installation -10…55 °C horizontal installation
Ambient Air Temperature For Storage	-25…70 °C
Relative Humidity	10…95 %, without condensation (in operation) 10…95 %, without condensation (in storage)
Ip Degree Of Protection	IP20 with protective cover in place
Pollution Degree	2
Operating Altitude	0...2000 m
Storage Altitude	0…3000 m
Vibration Resistance	3.5 mm at 5…8.4 Hz on DIN rail 3 gn at 8.4…150 Hz on DIN rail 3.5 mm at 5…8.4 Hz on panel 3 gn at 8.4…150 Hz on panel
Shock Resistance	15 gn for 11 ms

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	12.5 cm
Package 1 Length	10.5 cm
Package 1 Weight	245.0 g
Unit Type Of Package 2	S04
Number Of Units In Package 2	42
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm

Package 2 Weight	11.273 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	504
Package 3 Height	105 cm
Package 3 Width	120 cm
Package 3 Length	80 cm
Package 3 Weight	145 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ⟩

Guide to assess a product's sustainability ⟩

Transparency   RoHS/REACh

Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information   Yes

✓ Pvc Free
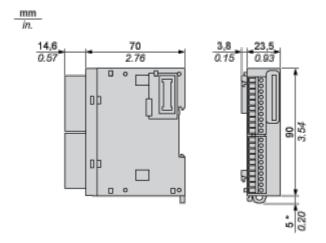
Certifications & Standards

Reach Regulation   REACh Declaration

Eu Rohs Directive   Pro-active compliance (Product out of EU RoHS legal scope)

                                    EU RoHS Declaration

China Rohs Regulation   China RoHS declaration

Environmental Disclosure   Product Environmental Profile

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

Circularity Profile   End of Life Information

Life Is On | Schneider Electric

Dimensions Drawings

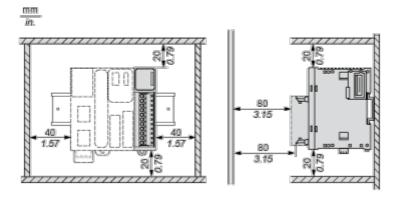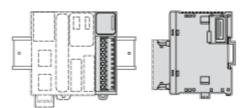**Dimensions**

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

Mounting and Clearance
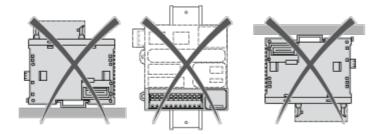
Spacing Requirements

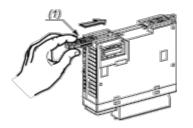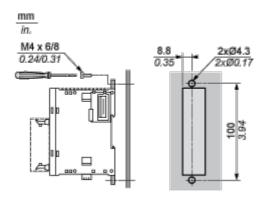**Mounting on a Rail**

Incorrect Mounting

Mounting on a Panel Surface

(1)   Install a mounting strip

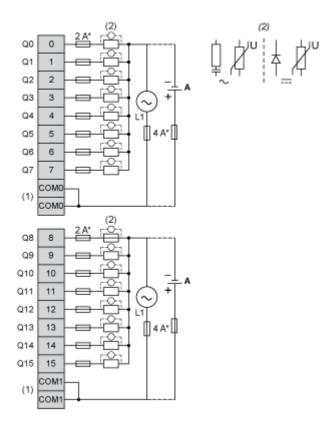## Mounting Hole Layout

Connections and Schema

Digital Relay Output Module (16-channel)

Wiring Diagram (Positive Logic)

(*) Type T fuse

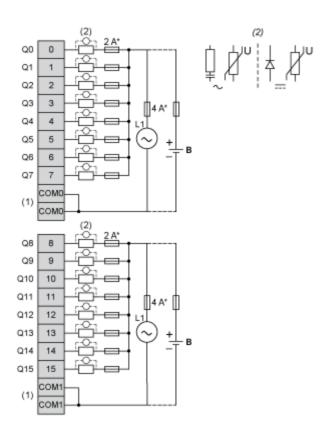(1) The COM0 and COM1 terminals are **not** connected internally.

(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 parallel to each inductive DC load or an RC snubber in parallel of each inductive AC load.

(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 parallel to each inductive DC load or an RC snubber in parallel of each inductive AC load.

(B)   Sink wiring (negative logic)