Specifications



discrete output module, Modicon TM3, 8 relay outputs, screw, 24V DC

TM3DQ8R

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 | 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 (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 | 11 x 2.5 mm ² removable screw terminal block with pitch 5.08 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

Environment

| Standards | IEC 61131-2 |
|--|--|
| Product Certifications | CE |
| | cULus |
| | UKCA |
| | RCM |
| | EAC |
| | cULus HazLoc |
| Resistance To Electrostatic | 8 kV in air conforming to IEC 61000-4-2 |
| Discharge | 4 kV on contact conforming to IEC 61000-4-2 |
| Resistance To Electromagnetic | 10 V/m 80 MHz1 GHz conforming to IEC 61000-4-3 |
| Fields | 3 V/m 1.4 GHz2 GHz conforming to IEC 61000-4-3 |
| | 1 V/m 2 GHz3 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 | 10 V 0.1580 MHz conforming to IEC 61000-4-6 |
| Disturbances | 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 |
| C C | conforming to IEC 55011 |
| | Radiated emissions - test level: 47 dBµV/m QP class A (10 m) at 2301000 MHz |
| | conforming to IEC 55011 |
| Ambient Air Temperature For | -1035 °C vertical installation |
| Operation | -1055 °C horizontal installation |
| Ambient Air Temperature For Storage | -2570 °C |
| Relative Humidity | 1095 %, without condensation (in operation) |
| | 1095 %, without condensation (in storage) |
| | |
| p 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 8.4…150 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 | |

| Unit Type Of Package 1 | PCE |
|------------------------------|-----------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 7.519 cm |
| Package 1 Width | 10.487 cm |
| Package 1 Length | 12.849 cm |
| Package 1 Weight | 240.0 g |
| Unit Type Of Package 2 | CAR |
| Number Of Units In Package 2 | 42 |
| Package 2 Height | 29.4 cm |

| Package 2 Width | 39.7 cm |
|------------------------------|----------|
| Package 2 Length | 56.0 cm |
| Package 2 Weight | 10.95 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 | 130 kg |

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

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Well-being performance

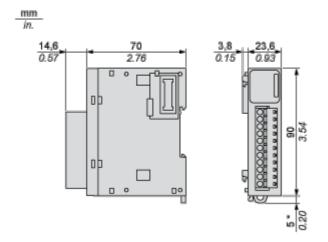
Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

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 |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

Dimensions Drawings

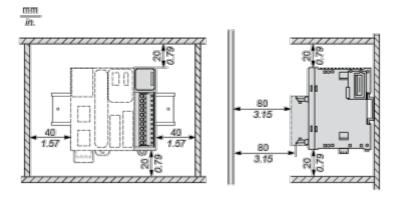
Dimensions



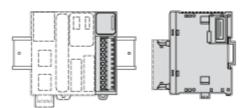
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

Mounting and Clearance

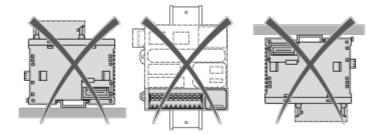
Spacing Requirements

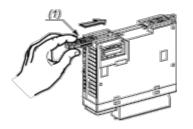


Mounting on a Rail



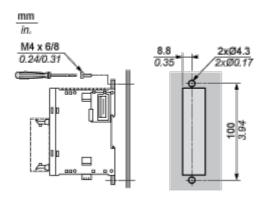
Incorrect Mounting





(1) Install a mounting strip

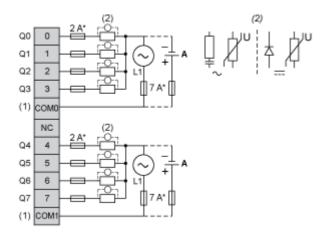
Mounting Hole Layout



Connections and Schema

Digital Relay Output Module (8-channel)

Wiring Diagram (Positive Logic)



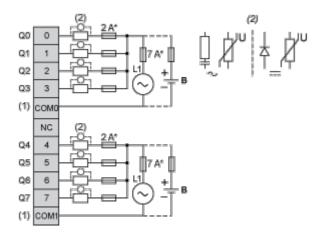
(*) Type T Fuse

(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 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)