Product datasheet

Specification





Modicon TM3 - 8 relay outputs (screw) 24Vdc

TM3DQ8R

EAN Code: 3606480611421

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

| oompiementary | |
|------------------------|--|
| 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 |
| | 10 HIA at 3 V DC 101 Tetay output |
| Local Signalling | 1 LED per channel (green) for output status |
| Electrical Connection | 11 x 2.5 mm² removable screw terminal block with pitch 5.08 mm adjustment fo |
| | outputs |
| Maximum Cable Distance | Unshielded cable: <30 m for relay output |
| Between Devices | |
| 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 0.11 kg

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 |
| | 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 | -2570 °C |
| Storage Bolotive Humidity | 40. OF Westback and departing Visconsisting |
| 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 8.4150 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 |

Contractual warranty

Warranty 18 months



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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 |
| ② | Rohs Exemption Information Yes |
| ⊘ | Pvc Free |

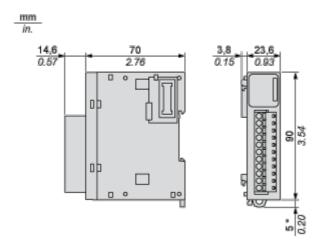
Certifications & Standards

| 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 |

2 Jan 2024

Dimensions Drawings

Dimensions

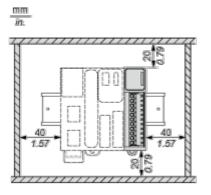


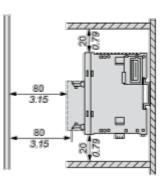
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

TM3DQ8R

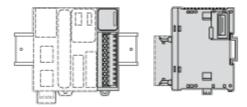
Mounting and Clearance

Spacing Requirements

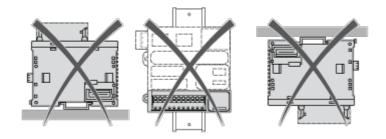




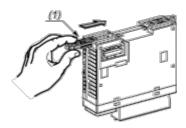
Mounting on a Rail



Incorrect Mounting

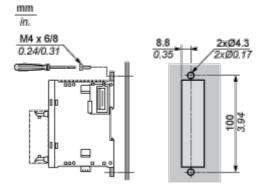


Mounting on a Panel Surface



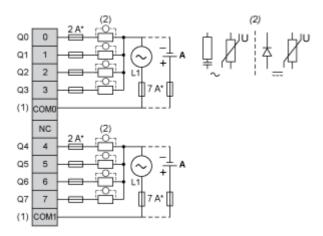
(1) Install a mounting strip

Mounting Hole Layout



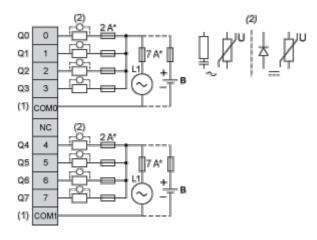
Digital Relay Output Module (8-channel)

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)