



### Main

|                           |  |
|---------------------------|--|
| Range of product          | Modicon TM3                                  |
| Product or component type | Discrete output module                       |
| Range compatibility       | Modicon M221<br>Modicon M241<br>Modicon M251 |
| 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<br>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)<br>0 mA at 24 V DC via bus connector (at state off)<br>40 mA at 24 V DC via bus connector (at state on)<br>30 mA at 5 V DC via bus connector (at state on) |
| Response time                          | 10 ms (turn-on)<br>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)output status:  |
| Electrical connection                  | 11 x 2.5 mm <sup>2</sup> removable screw terminal block with pitch 5.08 mm adjustment-<br>for outputs  |
| Maximum cable distance between devices | Unshielded cable: <30 m for relay output   |
| Insulation                             | Between output and internal logic at 2300 V AC<br>Between outputs at 750 V AC<br>Between output groups at 1500 V AC  |
| Marking                                | CE   |
| Mounting support                       | Top hat type TH35-15 rail conforming to IEC 60715<br>Top hat type TH35-7.5 rail conforming to IEC 60715<br>plate or panel with fixing kit  |
| Height                                 | 90 Mm  |
| Depth                                  | 84.6 Mm  |
| Width                                  | 27.4 Mm  |
| Net weight                             | 0.11 Kg  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 61010-2-201<br>EN/IEC 61131-2   |
| Product certifications                | C-Tick<br>CULus  |
| Resistance to electrostatic discharge | 8 KV in air conforming to EN/IEC 61000-4-2<br>4 KV on contact conforming to EN/IEC 61000-4-2   |
| Resistance to electromagnetic fields  | 10 V/M 80 MHz...1 GHz conforming to EN/IEC 61000-4-3<br>3 V/M 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3<br>1 V/M 2 GHz...3 GHz conforming to EN/IEC 61000-4-3   |
| Resistance to magnetic fields         | 30 A/M 50/60 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 I/O common mode conforming to EN/IEC 61000-4-5 DC   |
| Resistance to conducted disturbances  | 10 V 0.15...80 MHz conforming to EN/IEC 61000-4-6<br>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 dB $\mu$ V/m QP class A ( 10 m) at 30...230 MHz conforming to EN/IEC 55011<br>Radiated emissions - test level: 47 dB $\mu$ V/m QP class A ( 10 m) at 230...1000 MHz conforming to EN/IEC 55011 |
| Ambient air temperature for operation | -10...35 °C vertical installation<br>-10...55 °C horizontal installation   |
| Ambient air temperature for storage   | -25...70 °C  |
| Relative humidity                     | 10...95 %, without condensation (in operation)<br>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<br>3 gn at 8.4...150 Hz on DIN rail<br>3.5 mm at 5...8.4 Hz on panel<br>3 gn at 8.4...150 Hz on panel   |
| Shock resistance                      | 15 gn for 11 ms  |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                              |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End Of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Product Life Status : **Commercialised**

TM3DQ8R may be replaced by any of the following products:

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TM3DQ16R

Qty 1

Reason for Substitution: Rebrand | Substitution date: 13 May 2016 |

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TM3DQ16R

Qty 1

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TM3DQ16R

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