



Main

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| Range of product | Modicon TM3 |
| Product or component type | Discrete output module |
| Range compatibility | Modicon M221 Modicon M241 Modicon M251 |
| Discrete output type | Transistor |
| Discrete output number | 32 |
| Discrete output logic | Positive logic (source) |
| Discrete output voltage | 24 V DC transistor output |
| Discrete output current | 100 mA transistor output |

Complementary

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| Discrete I/O number | 32 |
| 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 25 mA at 5 V DC via bus connector at state on 40 mA at 24 V DC via bus connector at state on |
| Response time | 450 µs turn-on 450 µs turn-off |
| Leakage current | 0.1 mA transistor output |
| Voltage drop | 0.4 V |
| Tungsten load | 1.2 W transistor output |
| Local signalling | 1 LED per channel green for output status |
| Electrical connection | HE-10 connector for outputs |
| Insulation | 500 V AC between output and internal logic Non-insulated between outputs |
| 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 | 3.54 in (90 mm) |
| Depth | 3.2 in (81.3 mm) |
| Width | 1.32 in (33.5 mm) |
| Product weight | 0.25 lb(US) (0.112 kg) |

Environment

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|---------------------------------------|---|
| standards | EN/IEC 61131-2 EN/IEC 61010-2-201 |
| 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 | 9.14 V/yd (10 V/m) at 80 MHz...1 GHz conforming to EN/IEC 61000-4-3 2.74 V/yd (3 V/m) at 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3 0.91 V/yd (1 V/m) at 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 | 1 kV I/O conforming to EN/IEC 61000-4-4 |
| surge withstand | 1 kV I/O (DC) in common mode conforming to EN/IEC 61000-4-5 |
| resistance to conducted disturbances | 10 Vrms at 0.15...80 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) |

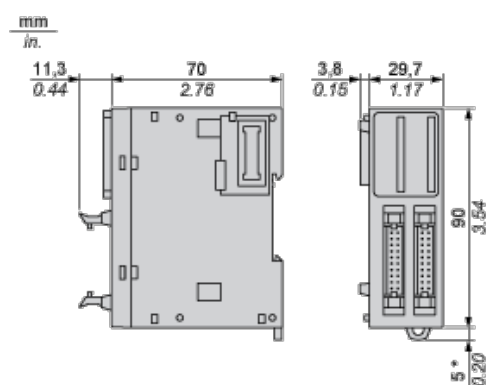
The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products 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.

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| electromagnetic emission | Radiated emissions, test level: 40 dB μ V/m QP with class A, condition of test: 10 m (radio frequency: 30...230 MHz) conforming to EN/IEC 55011 Radiated emissions, test level: 47 dB μ V/m QP with class A, condition of test: 10 m (radio frequency: 230...1000 MHz) conforming to EN/IEC 55011 |
| ambient air temperature for operation | 14...131 °F (-10...55 °C) horizontal installation -10...35 °C vertical installation |
| ambient air temperature for storage | -13...158 °F (-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...6561.68 ft (0...2000 m) |
| storage altitude | 0...9842.52 ft (0...3000 m) |
| vibration resistance | 3.5 mm (vibration frequency: 5...8.4 Hz) on DIN rail 3 gn (vibration frequency: 8.4...150 Hz) on DIN rail 3.5 mm (vibration frequency: 5...8.4 Hz) on panel 3 gn (vibration frequency: 8.4...150 Hz) on panel |
| shock resistance | 15 gn (test wave duration:11 ms) |

Offer Sustainability

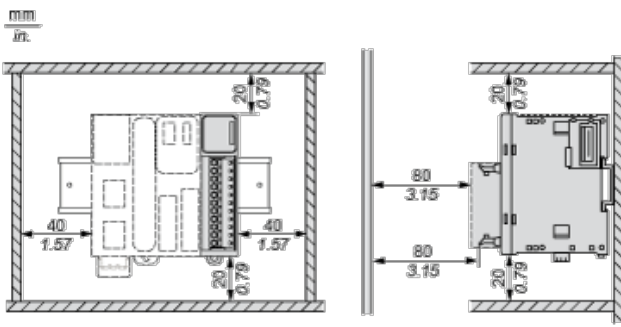
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|--|--|
| Green Premium product | Green Premium product |
| Compliant - since 1348 - Schneider Electric declaration of conformity | Compliant - since 1348 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Available | Available |
| WARNING: This product can expose you to chemicals including: | 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. | 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 | For more information go to www.p65warnings.ca.gov |

Dimensions

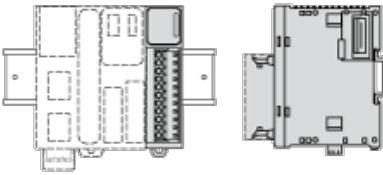


(*) 8.5 mm/0.33 in. when the clamp is pulled out.

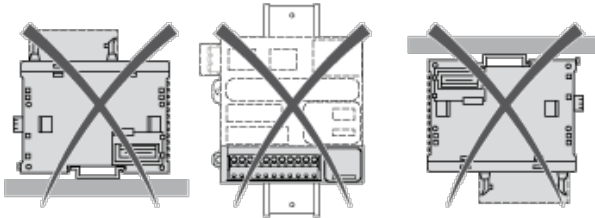
Spacing Requirements



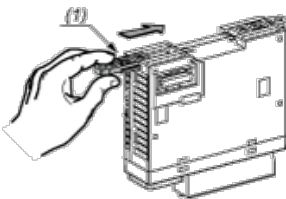
Mounting on a Rail



Incorrect Mounting

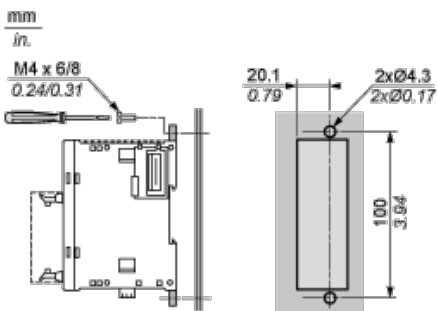


Mounting on a Panel Surface



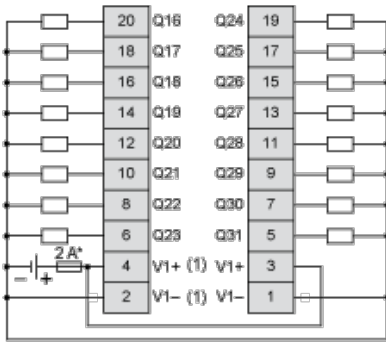
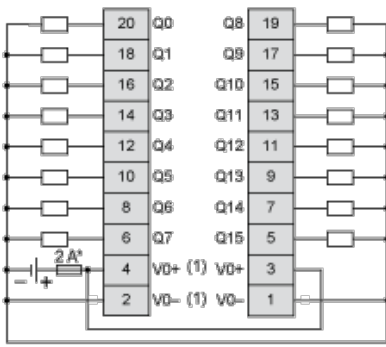
- (1) Install a mounting strip

Mounting Hole Layout



Digital Transistor Output Module (32-channel, Source)

Wiring Diagram



- (*) Type T fuse
- (1) The V0+ terminals are connected internally.
The V0- terminals are connected internally.
The V1+ terminals are connected internally.
The V1- terminals are connected internally.
The V0+ and V1+ terminals are not connected internally.
The V0- and V1- terminals are not connected internally.