



## 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      | 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

|                       |                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Discrete I/O number   | 32                                                                                                                                                                                             |
| Current consumption   | 5 mAat 5 V DC via bus connector at state off<br>0 mAat 24 V DC via bus connector at state off<br>25 mAat 5 V DC via bus connector at state on<br>40 mAat 24 V DC via bus connector at state on |
| Response time         | 450 µs turn-on<br>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 greenfor output status                                                                                                                                                       |
| Electrical connection | HE-10 connector for outputs                                                                                                                                                                    |
| Insulation            | 500 V AC between output and internal logic<br>Non-insulated between outputs                                                                                                                    |
| 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                | 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

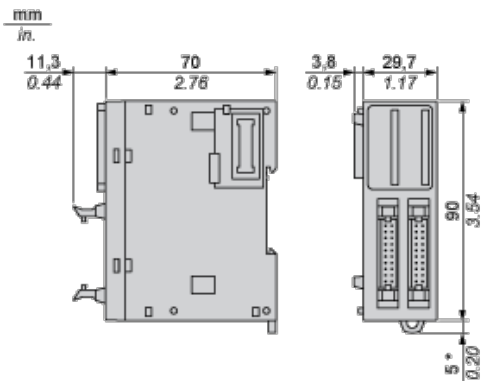
|                                       |                                                                                                                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| standards                             | EN/IEC 61131-2<br>EN/IEC 61010-2-201                                                                                                                                                                            |
| product certifications                | C-Tick<br>CULus                                                                                                                                                                                                 |
| resistance to electrostatic discharge | 4 kV (on contact) conforming to EN/IEC 61000-4-2<br>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<br>2.74 V/yd (3 V/m) at 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3<br>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 Vrmsat 0.15...80 MHz conforming to EN/IEC 61000-4-6<br>3 Vrmsat 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 with class A, condition of test: 10 m (radio frequency: 30...230 MHz) conforming to EN/IEC 55011<br>Radiated emissions, test level: 47 dB $\mu$ 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<br>-10...35 °C vertical installation                                                                                                                                                                                                                       |
| ambient air temperature for storage   | -13...158 °F (-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...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<br>3 gn (vibration frequency: 8.4...150 Hz) on DIN rail<br>3.5 mm (vibration frequency: 5...8.4 Hz) on panel<br>3 gn (vibration frequency: 8.4...150 Hz) on panel                                                                                       |
| shock resistance                      | 15 gn (test wave duration:11 ms)                                                                                                                                                                                                                                                                             |

### Offer Sustainability

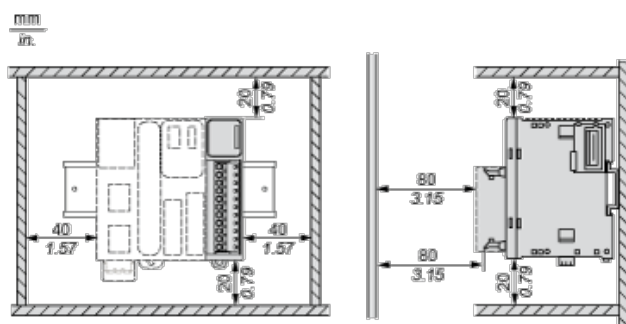
|                                                                                                                                  |                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

### Dimensions

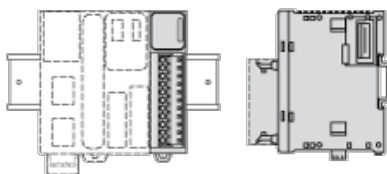


(\*) 8.5 mm/0.33 in. when the clamp is pulled out.

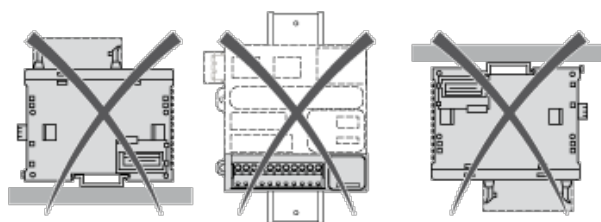
### Spacing Requirements



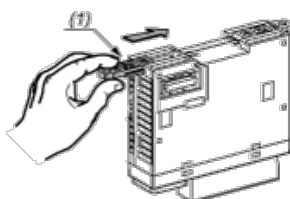
## Mounting on a Rail



## Incorrect Mounting

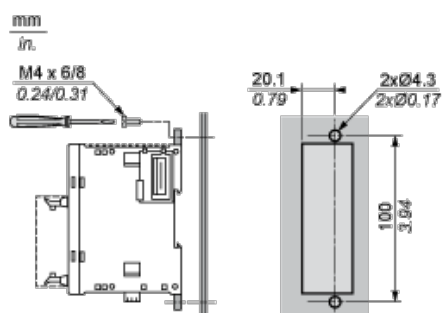


## Mounting on a Panel Surface



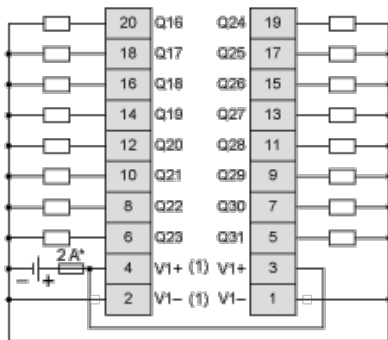
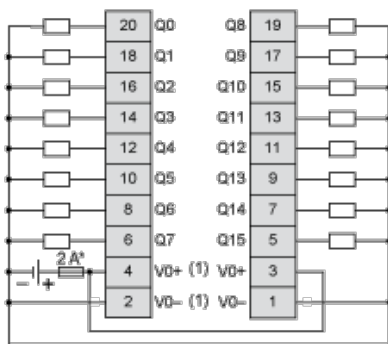
- (1) Install a mounting strip

## 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.



**Стандарт  
Электрон  
Связь**

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Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

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