



### Main

|                              |                            |
|------------------------------|----------------------------|
| Range of product             | Modicon TM5                |
| Product or Component Type    | Power distribution module  |
| Product Specific Application | Supply 24 V DC I/O modules |

### Complementary

|                                |                                       |
|--------------------------------|---------------------------------------|
| Range Compatibility            | Modicon M258<br>Modicon LMC058        |
| Product Compatibility          | Logic controller<br>Motion controller |
| [Us] rated supply voltage      | 24 V                                  |
| Network type                   | DC                                    |
| Current supplied               | 10 A I/O power segment                |
| Maximum power dissipation in W | 0.8 W                                 |
| Color                          | Gray                                  |
| Short-circuit protection       | 10 A external fuse                    |
| Current consumption            | <= 25 mA 24 V DC                      |
| Marking                        | CE                                    |

### Environment

|                                       |                                                                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | CSA C22.2 No 142<br>CSA C22.2 No 213<br>UL 508<br>IEC 61131-2                                                                                                                                      |
| Product Certifications                | GOST-R<br>C-tick<br>CULus<br>CSA                                                                                                                                                                   |
| Ambient air temperature for operation | 14...131 °F (-10...55 °C) without derating horizontal installation)<br>131...140 °F (55...60 °C) with derating factor horizontal installation)<br>14...122 °F (-10...50 °C) vertical installation) |
| Ambient Air Temperature for Storage   | -13...158 °F (-25...70 °C)                                                                                                                                                                         |
| Relative humidity                     | 5...95 % without condensation                                                                                                                                                                      |
| Operating altitude                    | 0...6561.68 ft (0...2000 m)                                                                                                                                                                        |
| Storage altitude                      | 0.00...9842.52 ft (0...3000 m)                                                                                                                                                                     |
| Vibration resistance                  | 1 gn 8.4...150 Hz DIN rail<br>3.5 mm 5...8.4 Hz DIN rail                                                                                                                                           |
| Shock resistance                      | 15 gn 11 ms                                                                                                                                                                                        |
| Resistance to electrostatic discharge | 4 KV on contact EN/IEC 61000-4-2<br>8 kV in air EN/IEC 61000-4-2                                                                                                                                   |
| Resistance to electromagnetic fields  | 0.91 V/m (1 V/m) 2...2.7 GHz EN/IEC 61000-4-3<br>9.14 V/m (10 V/m) 80...2000 MHz EN/IEC 61000-4-3                                                                                                  |

|                                |                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| Resistance to fast transients  | 1 kV EN/IEC 61000-4-4 I/O)<br>1 kV EN/IEC 61000-4-4 shielded cable)<br>2 kV EN/IEC 61000-4-4 power lines) |
| Surge withstand                | 0.5 kV differential mode EN/IEC 61000-4-5<br>1 kV common mode EN/IEC 61000-4-5                            |
| Electromagnetic compatibility  | EN/IEC 61000-4-6                                                                                          |
| Disturbance radiated/conducted | CISPR 11                                                                                                  |

## Ordering and shipping details

|                       |                  |
|-----------------------|------------------|
| Category              | 22532 - M258 PLC |
| Discount Schedule     | PC12             |
| GTIN                  | 3595864074900    |
| Nbr. of units in pkg. | 1                |
| Package weight(Lbs)   | 1.27 oz (36 g)   |
| Returnability         | No               |
| Country of origin     | AT               |

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Package 1 Height             | 0.79 in (2 cm)        |
| Package 1 width              | 2.36 in (6 cm)        |
| Package 1 Length             | 4.17 in (10.6 cm)     |
| Unit Type of Package 2       | S02                   |
| Number of Units in Package 2 | 97                    |
| Package 2 Weight             | 8.36 lb(US) (3.79 kg) |
| Package 2 Height             | 5.91 in (15 cm)       |
| Package 2 width              | 11.81 in (30 cm)      |
| Package 2 Length             | 15.75 in (40 cm)      |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                       |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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.                                                                                                                                                                |
| PVC free                   | Yes                                                                                                                                                                                                                                                                                         |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

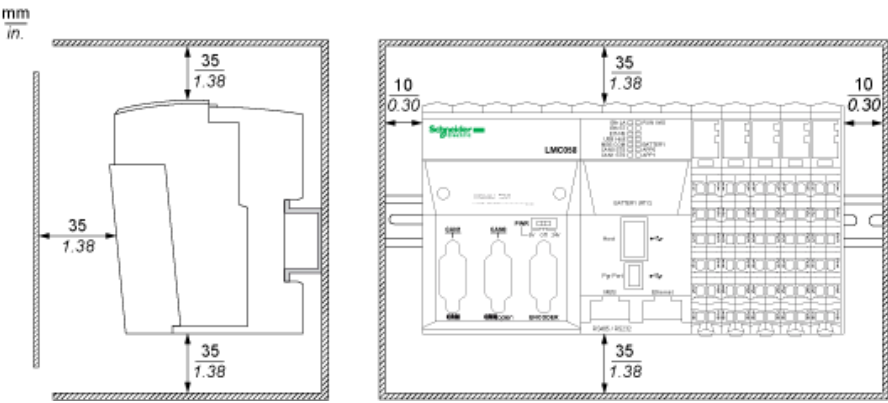
## TM5 Slice

### Dimensions

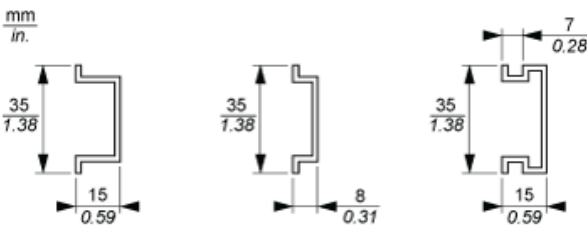


TM5 System

Spacing Requirements



Mounting on a DIN Rail



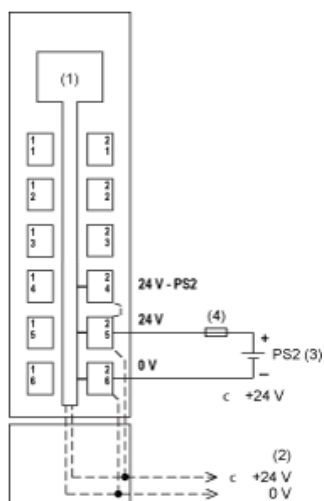
## TM5 System Wiring Recommendations

### Wire Sizes to Use with the Removable Spring Terminal Blocks

| mm<br>in.       |  |  |  |  |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| mm <sup>2</sup> | 0,08...2,5                                                                        | 0,25...2,5                                                                        | 0,25...1,5                                                                        | 2 x 0,25...2 x 0,75                                                               |
| AWG             | 28...14                                                                           | 24...14                                                                           | 24...16                                                                           | 2 x 24...2 x 18                                                                   |

## PDM Electronic Module 24 Vdc I/O

### Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) PS2: External isolated SELV power supply 24 Vdc limited to 200 VA for UL508 conformance, or limited to 150 VA for CSA 22.2, N° 142
- (4) External fuse type T slow-blow 10 A max. 250 V