

# Product datasheet

Specifications



## power distribution module - for I/O module 24 V DC & bus

TM5SPS2

EAN Code: 3595864074924

### Main

|                              |                                        |
|------------------------------|----------------------------------------|
| Range Of Product             | Modicon TM5                            |
| Product Or Component Type    | Power distribution module              |
| Product Specific Application | Supply 24 V DC I/O modules and bus TM5 |

### Complementary

|                                |                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------|
| Range Compatibility            | Modicon LMC058<br>Modicon M258                                                                             |
| Product Compatibility          | Motion controller<br>Logic controller                                                                      |
| [Us] Rated Supply Voltage      | 24 V                                                                                                       |
| Network Type                   | DC                                                                                                         |
| Current Supplied               | 1136 mA for TM5 power bus -10...55 °C<br>740 mA for TM5 power bus 55...60 °C<br>10 A for I/O power segment |
| Maximum Power Dissipation In W | 1.91 W                                                                                                     |
| Colour                         | Grey                                                                                                       |
| Short-Circuit Protection       | 10 A external fuse                                                                                         |
| Current Consumption            | <= 25 mA 24 V DC                                                                                           |
| Marking                        | CE                                                                                                         |

### Environment

|                                       |                                                                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>CSA C22.2 No 213<br>CSA C22.2 No 142<br>IEC 61131-2                                                                                              |
| Product Certifications                | CSA<br>C-Tick<br>cULus<br>GOST-R                                                                                                                           |
| Ambient Air Temperature For Operation | -10...55 °C without derating (horizontal installation)<br>55...60 °C with derating factor (horizontal installation)<br>-10...50 °C (vertical installation) |
| Ambient Air Temperature For Storage   | -25...70 °C                                                                                                                                                |
| Relative Humidity                     | 5...95 % without condensation                                                                                                                              |
| Operating Altitude                    | 0...2000 m                                                                                                                                                 |
| Storage Altitude                      | 0...3000 m                                                                                                                                                 |
| Vibration Resistance                  | 1 gn at 8.4...150 Hz on DIN rail<br>3.5 mm at 5...8.4 Hz on DIN rail                                                                                       |

Disclaimer: 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

|                                       |                                                                                                                                                        |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shock Resistance                      | 15 gn for 11 ms                                                                                                                                        |
| 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  | 1 V/m 2...2.7 GHz conforming to EN/IEC 61000-4-3<br>10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3                                                |
| Resistance To Fast Transients         | 1 kV (I/O) conforming to EN/IEC 61000-4-4<br>1 kV (shielded cable) conforming to EN/IEC 61000-4-4<br>2 kV (power lines) conforming to EN/IEC 61000-4-4 |
| Surge Withstand                       | 0.5 kV differential mode conforming to EN/IEC 61000-4-5<br>1 kV common mode conforming to EN/IEC 61000-4-5                                             |
| Electromagnetic Compatibility         | EN/IEC 61000-4-6                                                                                                                                       |
| Disturbance Radiated/Conducted        | CISPR 11                                                                                                                                               |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 1       | PCE       |
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 2.000 cm  |
| Package 1 Width              | 6.000 cm  |
| Package 1 Length             | 10.500 cm |
| Package 1 Weight             | 50.000 g  |
| Unit Type Of Package 2       | S02       |
| Number Of Units In Package 2 | 97        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 5.286 kg  |

## Contractual warranty

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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**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               |     |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free                   |     |

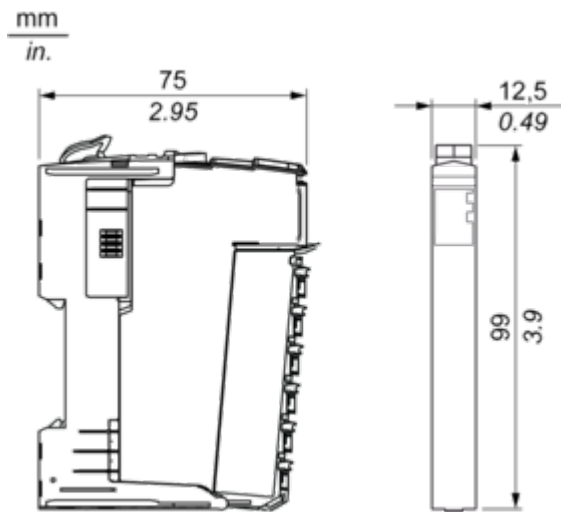
Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |

Dimensions Drawings

TM5 Slice

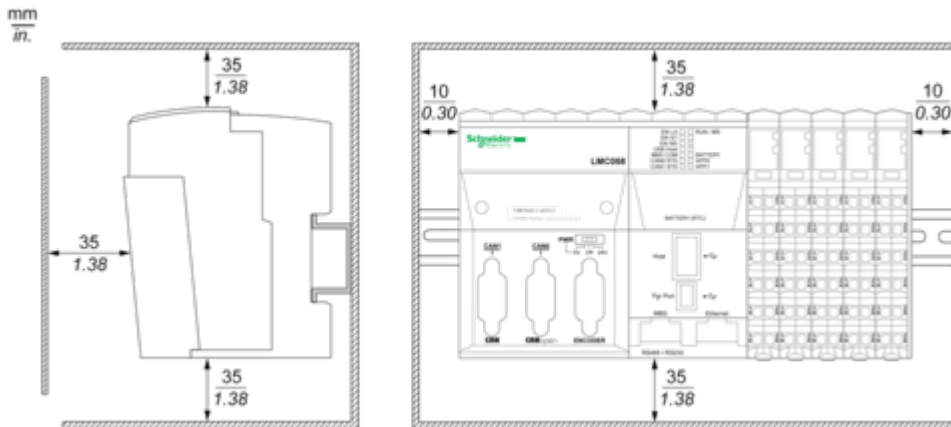
Dimensions



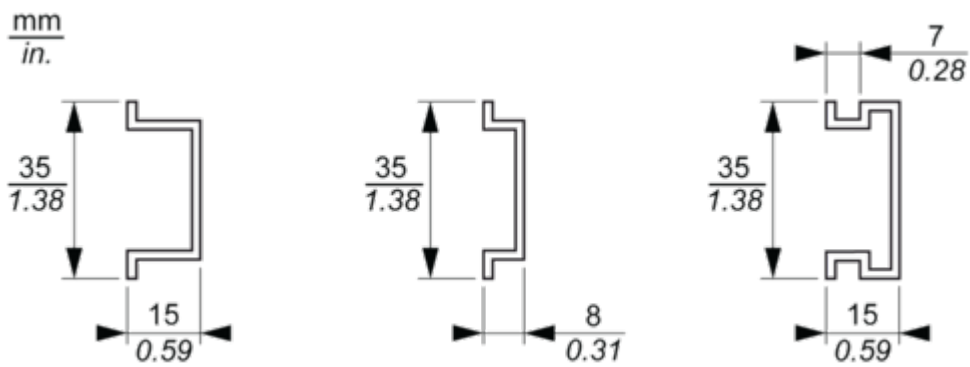
## Mounting and Clearance

## TM5 System

## Spacing Requirements



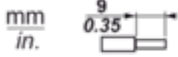
## Mounting on a DIN Rail



Connections and Schema

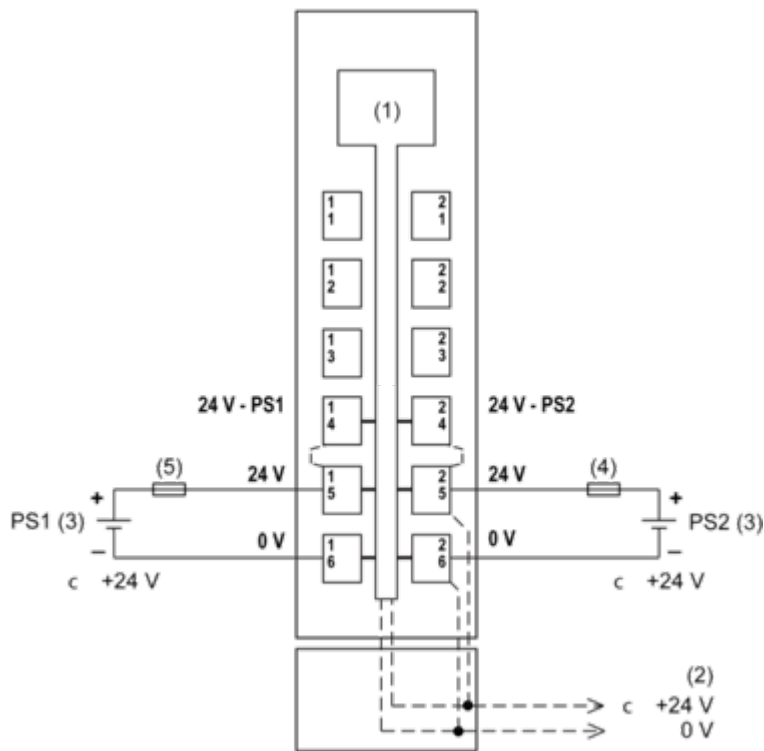
TM5 System Wiring Recommendations

Wire Sizes to Use with the Removable Spring Terminal Blocks

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |
| 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 and TM5 Power Bus

Wiring Diagram



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) PS1/PS2: External isolated SELV power supplies 24 Vdc limited to 200 VA for UL508 conformance, or limited to 150 VA for CSA 22.2, N° 142 conformance
- (4) External fuse type T slow-blow 10 A max. 250 V
- (5) External fuse type T slow-blow 1 A 250 V