

# Product datasheet

Specifications



## power distribution module - for CANopen interface module and I/O module - 24 V D

TM5SPS3

EAN Code: 3595864093024

### 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 CANopen<br>Supply 24 V DC I/O modules and bus Sercos III |

### Complementary

|                                |                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| Range compatibility            | Modicon LMC078<br>Modicon LMC058<br>Modicon M258                                                          |
| Product compatibility          | Logic controller<br>Motion controller                                                                     |
| [Us] rated supply voltage      | 24 V                                                                                                      |
| Network type                   | DC                                                                                                        |
| current supplied               | 750 mA for TM5 power bus -10...55 °C<br>500 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                             | CSA C22.2 No 213<br>CSA C22.2 No 142<br>IEC 61131-2<br>UL 508                                                                                              |
| Product certifications                | GOST-R<br>C-Tick<br>CSA<br>cULus                                                                                                                           |
| 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   | -40...70 °C                                                                                                                                                |
| Relative humidity                     | 5...95 % without condensation                                                                                                                              |
| Operating altitude                    | 0...2000 m                                                                                                                                                 |
| Storage altitude                      | 0...3000 m                                                                                                                                                 |

|                                              |                                                                                                                                                        |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Vibration resistance</b>                  | 1 gn at 8.4...150 Hz on DIN rail<br>3.5 mm at 5...8.4 Hz on DIN rail                                                                                   |
| <b>Shock resistance</b>                      | 15 gn for 11 ms                                                                                                                                        |
| <b>Resistance to electrostatic discharge</b> | 4 kV on contact conforming to EN/IEC 61000-4-2<br>8 kV in air conforming to EN/IEC 61000-4-2                                                           |
| <b>Resistance to electromagnetic fields</b>  | 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                                                |
| <b>Resistance to fast transients</b>         | 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 |
| <b>Surge withstand</b>                       | 0.5 kV differential mode conforming to EN/IEC 61000-4-5<br>1 kV common mode conforming to EN/IEC 61000-4-5                                             |
| <b>Electromagnetic compatibility</b>         | EN/IEC 61000-4-6                                                                                                                                       |
| <b>Disturbance radiated/conducted</b>        | CISPR 11                                                                                                                                               |

## Packing Units

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type of Package 1</b>       | PCE       |
| <b>Number of Units in Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 2.000 cm  |
| <b>Package 1 Width</b>              | 6.000 cm  |
| <b>Package 1 Length</b>             | 10.500 cm |
| <b>Package 1 Weight</b>             | 51.000 g  |
| <b>Unit Type of Package 2</b>       | S02       |
| <b>Number of Units in Package 2</b> | 97        |
| <b>Package 2 Height</b>             | 15.000 cm |
| <b>Package 2 Width</b>              | 30.000 cm |
| <b>Package 2 Length</b>             | 40.000 cm |
| <b>Package 2 Weight</b>             | 5.199 kg  |

## Logistical informations

|                          |    |
|--------------------------|----|
| <b>Country of origin</b> | AT |
|--------------------------|----|

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard

No

Packaging without single use plastic

Yes

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number

D442029a-1e06-4345-b16d-dc0ea46a51b1

REACH Regulation

[REACH Declaration](#)

PVC free

Yes

## Use Again

### Repack and remanufacture

End of life manual availability

[End of Life Information](#)

Take-back

No

WEEE Label

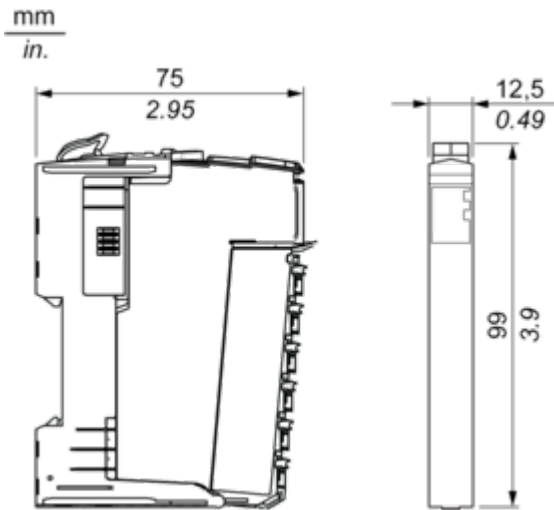
 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

TM5 Slice

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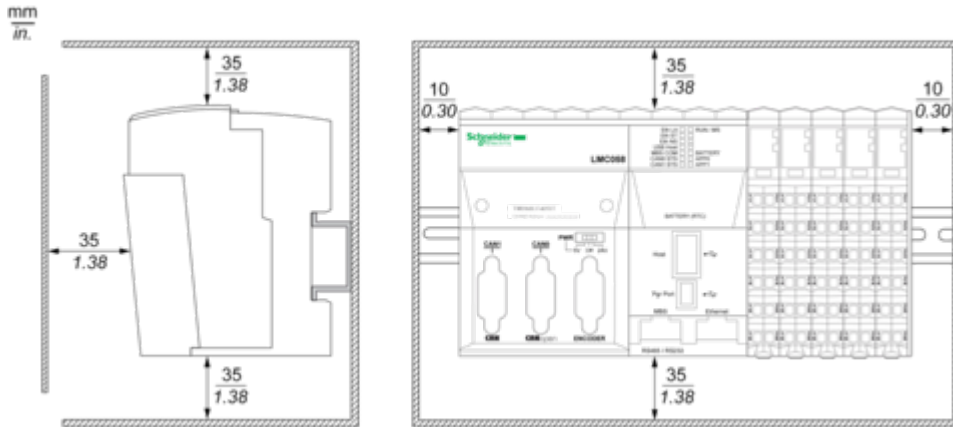
Dimensions



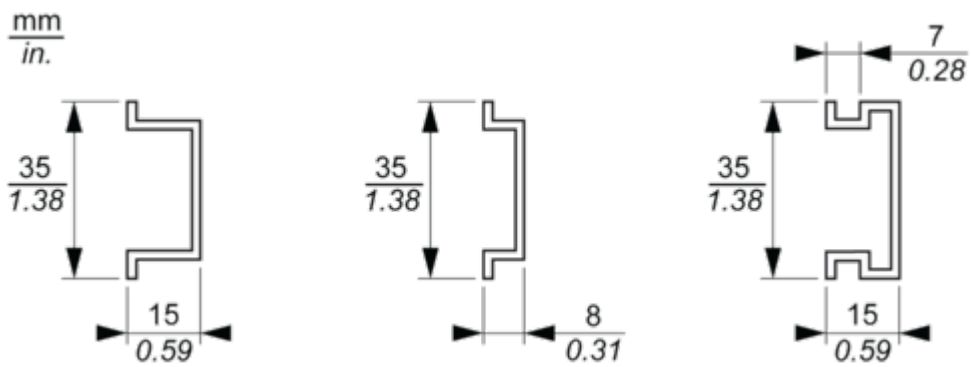
Mounting and Clearance

TM5 System

Spacing Requirements



Mounting on a DIN Rail

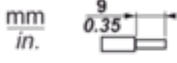






Connections and Schema

**TM5 System Wiring Recommendations**

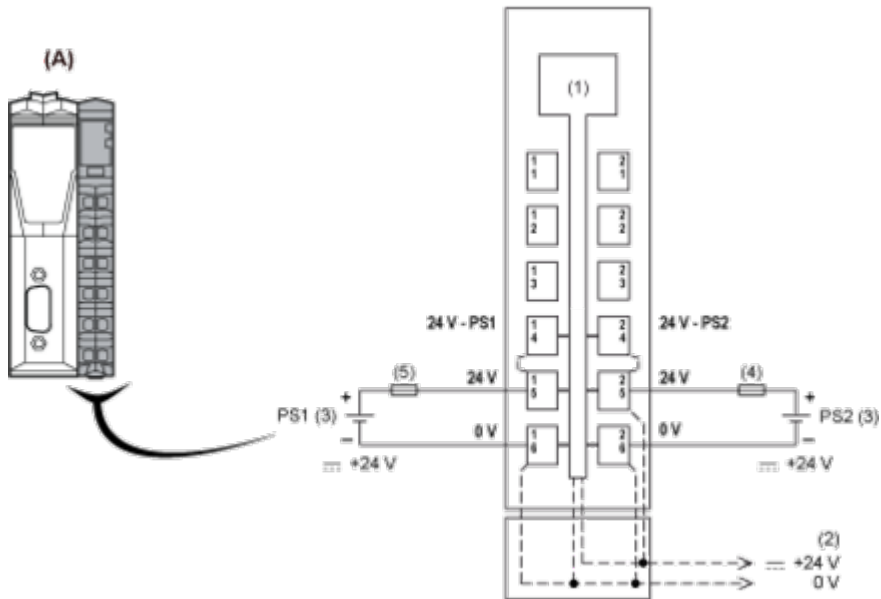
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**Wire Sizes to Use with the Removable Spring Terminal Blocks**

| <br>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                                                                   |

Interface Power Distribution Module

Wiring Diagram



- (A) Interface Power Distribution Module (IPDM)
- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated in the bus bases
- (3) PS1/PS2: External isolated power supply 24 Vdc
- (4) External fuse, Type T slow blow, 10 A max., 250 V
- (5) External fuse, Type T slow blow, 1 A, 250 V