



Glavno

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|------------------------------|--|
| Range of product | Modicon TM7 |
| Product or component type | Power distribution module |
| Range compatibility | Modicon LMC058 Modicon M258 |
| Product compatibility | Motion controller Logic controller |
| Product specific application | Supply 24 V DC I/O modules and bus TM7 |
| [Us] rated supply voltage | 24 V |
| Supply circuit type | DC |
| Electrical connection | 1 male + 1 female connectors M8 for power supply 1 male + 1 female connectors M12 for TM7 bus |

Komplementarno

| | |
|--------------------|--|
| Local signalling | 2 LEDs for sensor/actuator power supply status |
| Nominal power | 15 W |
| Operating position | Any position |
| Fixing mode | By 2 screws |
| Product weight | 0.19 kg |

Okolina

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|---------------------------------------|--|
| standards | IEC 61131-2 |
| product certifications | C-Tick CURus GOST-R ATEX II 3g EEx nA II T5 |
| marking | CE |
| ambient air temperature for operation | -10...60 °C |
| ambient air temperature for storage | -25...85 °C |
| relative humidity | 5...95 % without condensation |
| operating altitude | 0...2000 m |
| storage altitude | 0...3000 m |
| vibration resistance | 7.5 mm constant amplitude (f = 2...8 Hz) conforming to IEC 60721-3-5 Class 5M3 2 gn constant acceleration (f = 8...200 Hz) conforming to IEC 60721-3-5 Class 5M3 4 gn constant acceleration (f = 200...500 Hz) conforming to IEC 60721-3-5 Class 5M3 |
| shock resistance | 30 gn for 11 ms conforming to IEC 60721-3-5 Class 5M3 |
| resistance to electrostatic discharge | 8 kV in air conforming to EN/IEC 61000-4-2 6 kV in contact conforming to EN/IEC 61000-4-2 |
| resistance to electromagnetic fields | 10 V/m (f = 0.08...2 Hz conforming to EN/IEC 61000-4-3 1 V/m (f = 2...2.7 Hz conforming to EN/IEC 61000-4-3 |
| resistance to fast transients | 1 kV shielded cable conforming to EN/IEC 61000-4-4 2 kV power supply conforming to EN/IEC 61000-4-4 1 kV input/output conforming to EN/IEC 61000-4-4 |
| surge withstand | 0.5 kV differential mode conforming to EN/IEC 61000-4-5 1 kV common mode conforming to EN/IEC 61000-4-5 |
| electromagnetic compatibility | EN/IEC 61000-4-6 |
| disturbance radiated/conducted | CISPR 11 |

Offer Sustainability

| | |
|-----------------------|-----------------------|
| Green Premium product | Green Premium product |
|-----------------------|-----------------------|

Compliant - since 1039 - Schneider Electric declaration of conformity Compliant - since 1039 - Schneider Electric declaration of conformity

Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold

Available Available

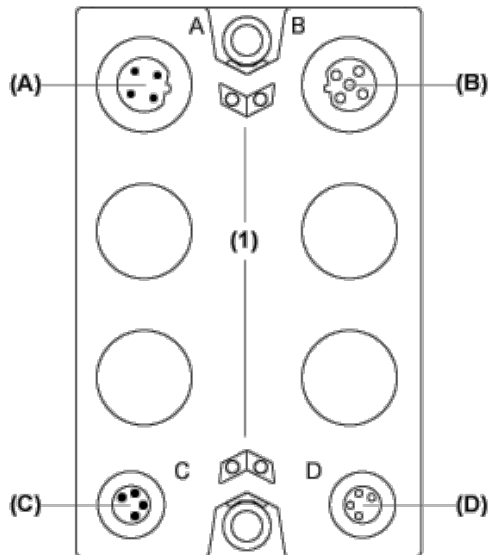
Available Available

Contractual warranty

Warranty period 18 months

TM7 Power Distribution Block (PDB)

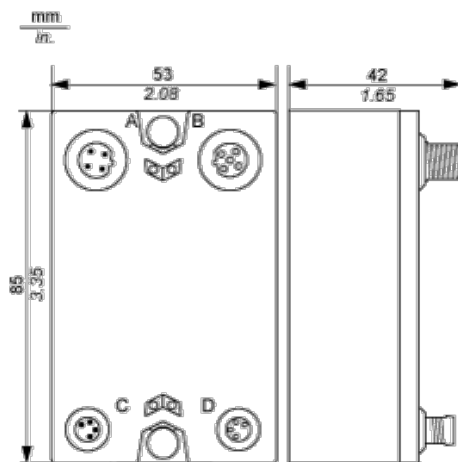
Description



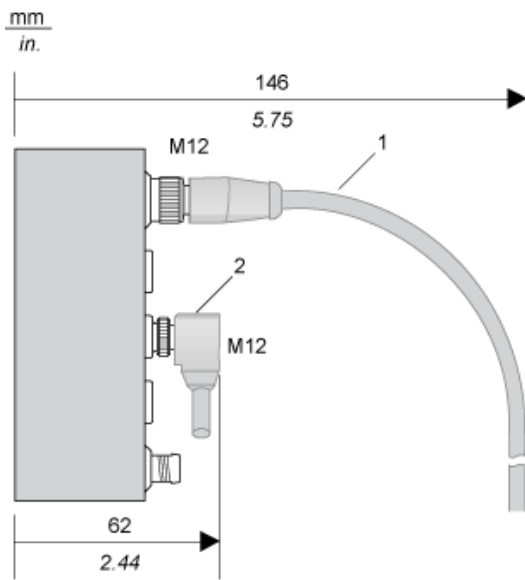
- (A) TM7 bus IN connector
- (B) TM7 bus OUT connector
- (C) 24 Vdc power IN connector
- (D) 24 Vdc power OUT connector
- (1) Status LEDs

TM7 Block, Size 1

Dimensions



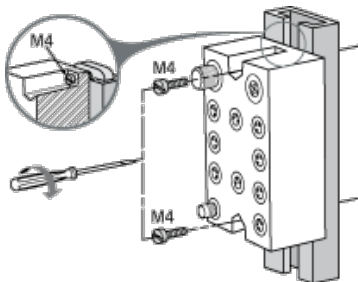
Spacing Requirements



- 1 Straight cable
- 2 Elbowed cable

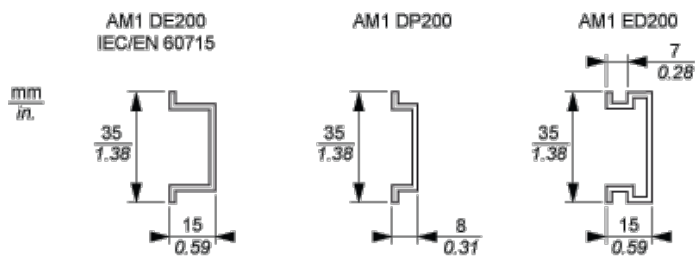
Installation Guidelines

TM7 Block on an Aluminium Frame



NOTE: Maximum torque to fasten the required M4 screws is 0.6 N.m (5.3 lbf-in).

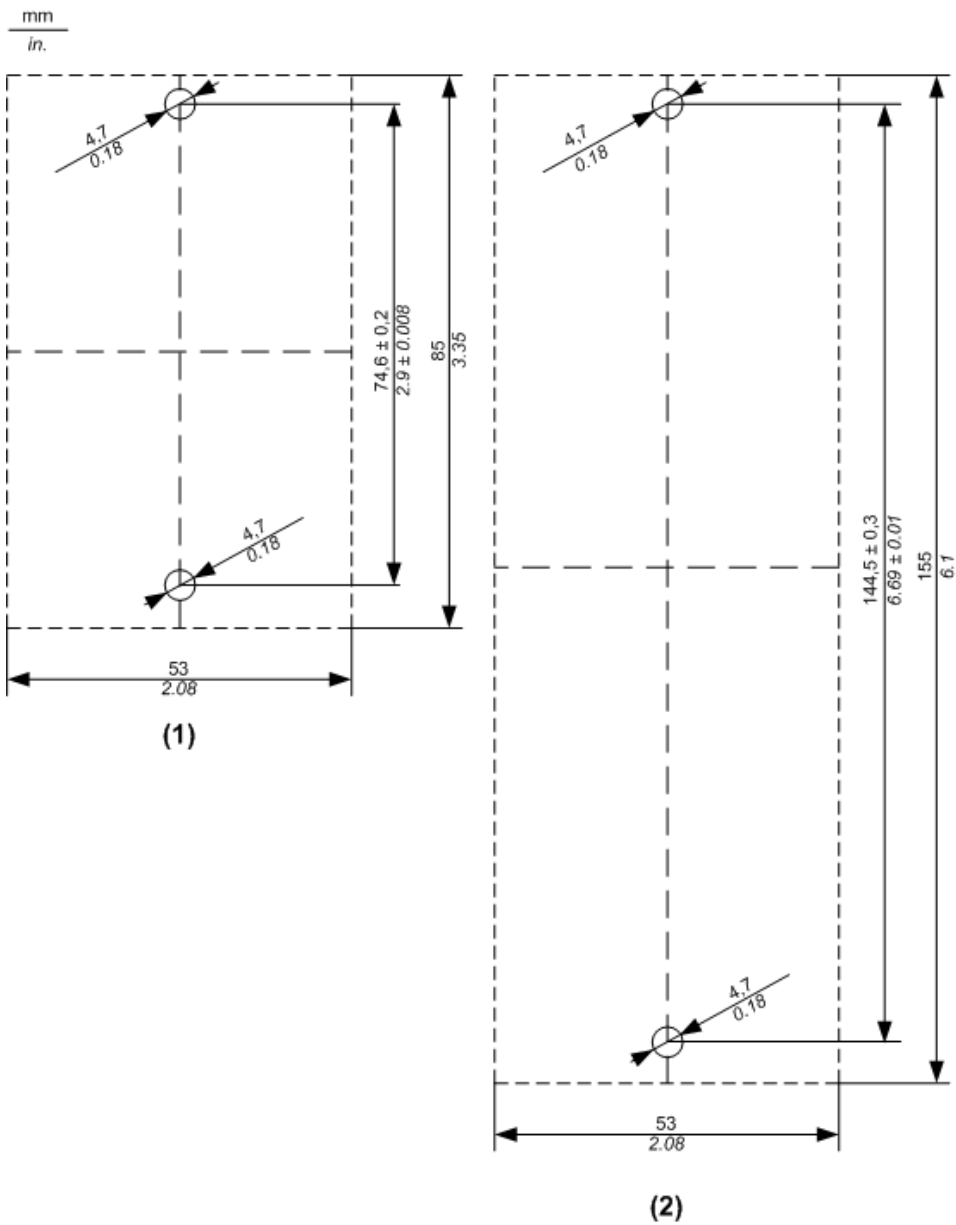
TM7 Block on a DIN Rail



NOTE: Only size 1 (smallest) blocks can be installed on DIN rail with the TM7ACMP mounting plate.

TM7 Block Directly on the Machine

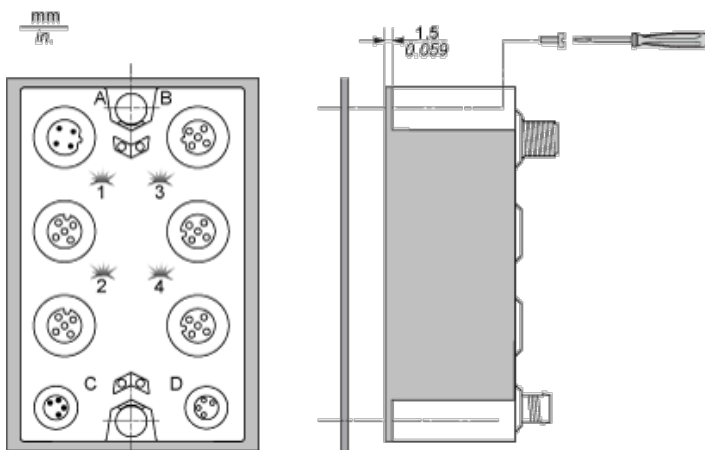
Drilling template of the block:



(1) Size 1

(2) Size 2

The thickness of the base plate should be taken into consideration when defining the screw length.

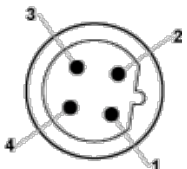
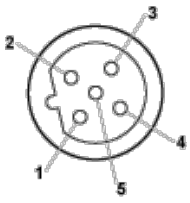


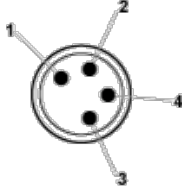
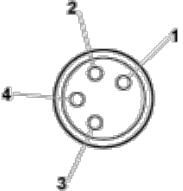
NOTE: Maximum torque to fasten the required M4 screws is 0.6 N.m (5.3 lbf-in).

Wiring Diagram

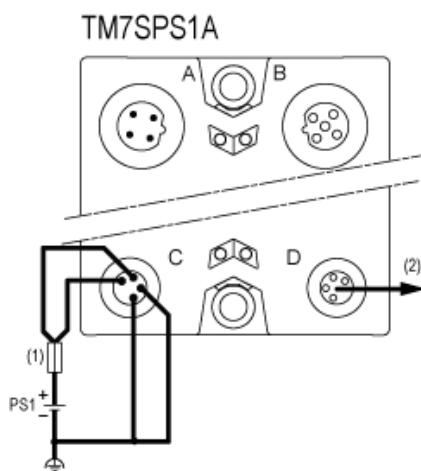
Pin Assignments

| TM7 bus IN connector (A) | Pin | Designation | TM7 bus OUT connector (B) |
|--------------------------|-----|-------------|---------------------------|
|--------------------------|-----|-------------|---------------------------|

| | | | |
|--|---|--------------|--|
|  | 1 | TM7 V+ |  |
| | 2 | TM7 Bus Data | |
| | 3 | TM7 0V | |
| | 4 | TM7 Bus Data | |
| | 5 | N.C. | |

| Power IN connector (C) | Pin | Designation | Power OUT connector (D) |
|---|-----|-------------------|---|
|  | 1 | 24 Vdc Main power |  |
| | 2 | 24 Vdc Main power | |
| | 3 | 0 Vdc | |
| | 4 | 0 Vdc | |

Wiring the Power Supply



(1) External fuse, Type T slow-blow, 1 A minimum, 4 A maximum, 250 V

(2) Maximum current 4 A

PS1 External isolated main power supply, 24 Vdc