

Product availability: Non-Stock - Not normally stocked in distribution facility



### Main

|                           |              |
|---------------------------|--------------|
| Range of product          | Modicon M171 |
| Product or component type | Controller   |

### Complementary

|                           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| Number of port            | 1 Modbus serial link - RS485                                                          |
| Input/output number       | 2 digital input(s)<br>4 analog input(s)<br>2 digital output(s)<br>8 (total)           |
| Discrete input number     | 2                                                                                     |
| Discrete input logic      | Sink or source (positive/negative)                                                    |
| Contacts usage            | Volt-free contacts                                                                    |
| Sensor power supply       | 5 V DC<br>12 V DC                                                                     |
| Discrete output number    | 1 open collector<br>1 SPST                                                            |
| Analogue input number     | 2 analog input NTC<br>2 analog input Pt 1000, range: 4...20 mA or 0...5 V or 0...10 V |
| [Us] rated supply voltage | 24 V AC/DC (+/- 10 %)                                                                 |
| Display type              | Without display                                                                       |
| Mounting support          | DIN rail                                                                              |
| Width                     | 2.76 in (70.2 mm)                                                                     |
| Height                    | 3.43 in (87 mm)                                                                       |
| Depth                     | 2.43 in (61.6 mm)                                                                     |

### Environment

|                                       |                          |
|---------------------------------------|--------------------------|
| Marking                               | CE                       |
| Ambient air temperature for operation | 23...122 °F (-5...50 °C) |
| IP degree of protection               | IP20                     |

### Ordering and shipping details

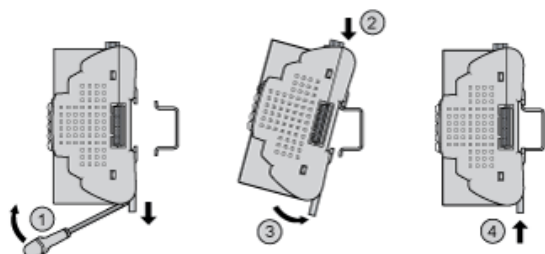
|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22537 - M171 / M172 HVAC CONTROLLERS |
| Discount Schedule     | PC12                                 |
| GTIN                  | 003606480752902                      |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 0.6099999999999999                   |
| Returnability         | N                                    |
| Country of origin     | IT                                   |

## Offer Sustainability

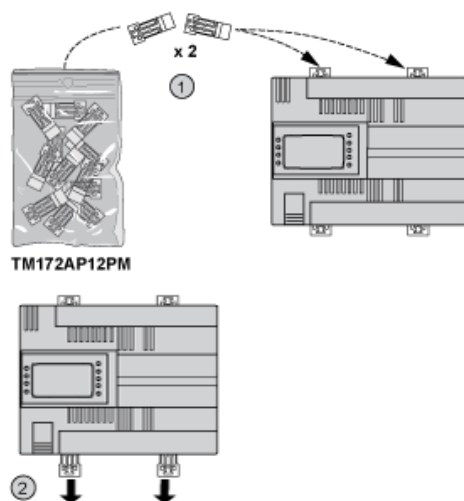
|                                  |                                                                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                                                                                                  |
| RoHS (date code: YYWW)           | Compliant - since 1427 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                                                                                                                                                      |
| Product environmental profile    | Available                                                                                                                                                                                              |
| Product end of life instructions | Available                                                                                                                                                                                              |
| California proposition 65        | WARNING: This product can expose you to chemicals including:                                                                                                                                           |
| - - - - - Substance 1            | Lead and lead compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm.                                                                        |
| - - - - - More information       | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                                                                                          |

## Mounting and Clearance

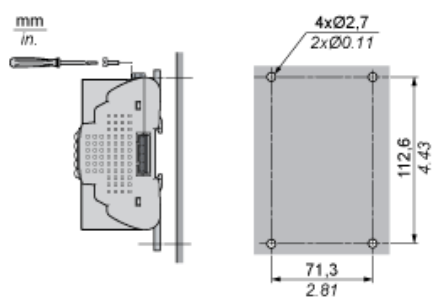
### DIN Rail Mounting



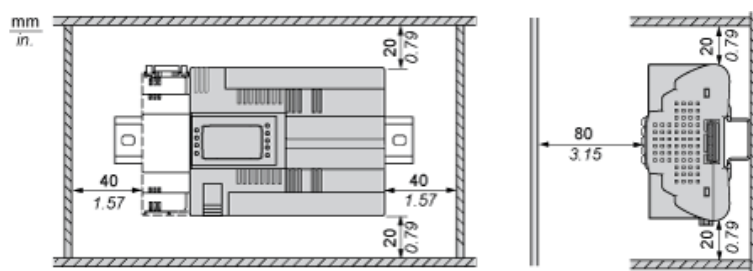
### Clips for Panel Mounting



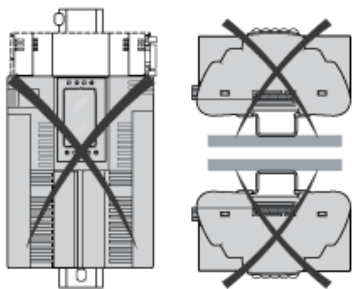
### Panel Mounting



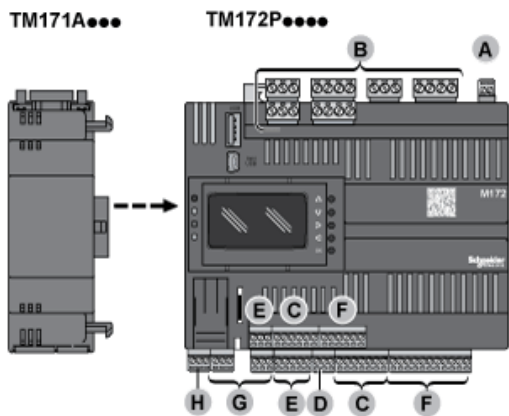
### Clearance



Incorrect Mounting Position

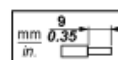


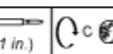
Assembling a Module



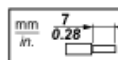
Wiring Sections and Torque

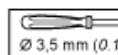
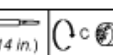
A, C, D, E, F, G, H

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
|  |  |  |  |  |  |  |  |  |         |
| mm<br>in.                                                                           | 0.35                                                                                | 0.14...1.5                                                                          | 0.14...1.5                                                                          | 0.25...1.5                                                                          | 0.25...0.5                                                                          | 2 x 0.08...0.5                                                                      | 2 x 0.08...0.75                                                                     | 2 x 0.25...0.34                                                                     | 2 x 0.5 |
| mm <sup>2</sup>                                                                     |                                                                                     | 0.14...1.5                                                                          | 0.14...1.5                                                                          | 0.25...1.5                                                                          | 0.25...0.5                                                                          | 2 x 0.08...0.5                                                                      | 2 x 0.08...0.75                                                                     | 2 x 0.25...0.34                                                                     | 2 x 0.5 |
| AWG                                                                                 |                                                                                     | 26...16                                                                             | 26...16                                                                             | 22...16                                                                             | 22...20                                                                             | 2 x 28...20                                                                         | 2 x 28...20                                                                         | 2 x 24...22                                                                         | 2 x 20  |

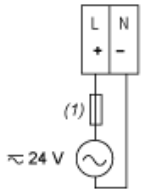
|                                                                                     |                                                                                     |       |             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-------------|
|  |  | N·m   | 0.22...0.25 |
| Ø 2,5 mm (0.1 in.)                                                                  | C                                                                                   | lb-in | 1.95...2.21 |

B

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |
| mm<br>in.                                                                           | 7<br>0.28                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| mm <sup>2</sup>                                                                     | 0.2...2.5                                                                           | 0.2...2.5                                                                           | 0.25...2.5                                                                          | 0.25...2.5                                                                          | 2 x 0.2...1                                                                         | 2 x 0.2...1.5                                                                       | 2 x 0.25...1                                                                        | 2 x 0.5...1.5                                                                       |
| AWG                                                                                 | 24...14                                                                             | 24...14                                                                             | 22...14                                                                             | 22...14                                                                             | 2 x 24...18                                                                         | 2 x 24...16                                                                         | 2 x 22...18                                                                         | 2 x 20...16                                                                         |

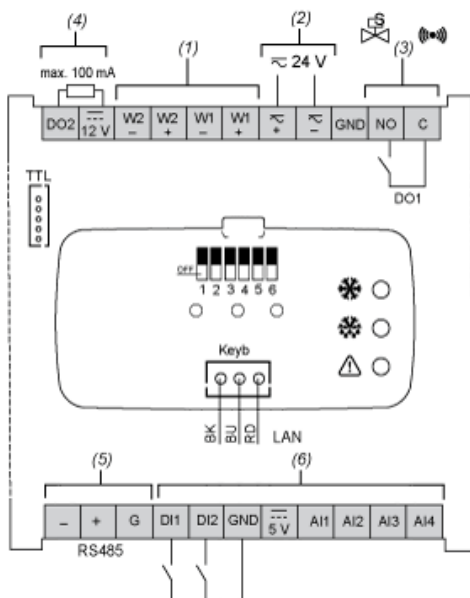
|                                                                                     |                                                                                     |       |             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-------------|
|  |  | N·m   | 0.5...0.6   |
| Ø 3,5 mm (0.14 in.)                                                                 | C                                                                                   | lb-in | 4.42...5.31 |

## Power Supply



(1) Type T fuse 3,15 A

## Wiring Diagram



- (1) Electronic Expansion Valve output
- (2) Power supply 24 V ac/dc
- (3) DO1: Relay output 5 A 250 Vac (Solenoid valve/Alarm)  
C: Common - NO: Normally Open
- (4) DO2: Open collector (Solenoid valve/Alarm)
- (5) Serial port RS485
- (6) Digital and analog inputs  
GND - Ground

# Mouser Electronics

Authorized Distributor

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