



### Main

|                              |                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------|
| Range of product             | Modicon M171/M172                                                                                            |
| Product or component type    | Additional I/O module                                                                                        |
| Product specific application | HVAC and pumping solution                                                                                    |
| Total inputs/outputs         | 14                                                                                                           |
| Discrete input number        | 2                                                                                                            |
| Discrete output number       | 1 for relay outputs SPDT with independent common<br>3 for relay outputs SPST with same common                |
| Discrete output current      | 2 A for relay                                                                                                |
| Analogue input number        | 3 analog input NTC/Pt 1000<br>2 configurable                                                                 |
| Analogue output number       | 2 voltage, range: 0...10 V<br>2 PWM/PPM, range: 20 kHz, 12 V, 35 mA<br>1 current, range: 0...20 mA/4...20 mA |

### Complementary

|                           |                                                                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of port            | 1 LAN expansion bus                                                                                                                                                                                                             |
| Input/output number       | 5 analog output(s)<br>4 digital output(s)<br>5 analog input(s)                                                                                                                                                                  |
| Discrete input logic      | Sink or source (positive/negative)                                                                                                                                                                                              |
| Contacts usage            | Volt-free contacts                                                                                                                                                                                                              |
| Analogue input type       | Voltage 0...5 V (ratiometric)<br>Voltage 0...10 V<br>NTC temperature probe - 50...100 °C - resolution: 0.1 °C<br>Pt 1000 temperature probe - 50...400 °C - resolution: 0.1 °C<br>Current 0...20 mA/4...20 mA<br>Voltage 0...1 V |
| Sensor power supply       | 12 V DC at 85 mA                                                                                                                                                                                                                |
| [Us] rated supply voltage | 100...240 V +/- 10 % AC/DC                                                                                                                                                                                                      |
| Power consumption in W    | 7 W                                                                                                                                                                                                                             |
| Realtime clock            | Built-in clock at -10...55 °C                                                                                                                                                                                                   |
| Display type              | Without display                                                                                                                                                                                                                 |
| Overvoltage category      | II                                                                                                                                                                                                                              |
| Local signalling          | 1 LED (red) for programmable<br>1 LED (yellow) for programmable<br>1 LED (green) for programmable                                                                                                                               |
| Mounting support          | DIN rail                                                                                                                                                                                                                        |
| Width                     | 70.2 mm                                                                                                                                                                                                                         |
| Height                    | 87 mm                                                                                                                                                                                                                           |
| Depth                     | 61.6 mm                                                                                                                                                                                                                         |
| Net weight                | 0.385 kg                                                                                                                                                                                                                        |

## Environment

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| Directives                            | 86/188/EEC - physical agents (noise) directive<br>2006/95/EC - low voltage directive |
| Standards                             | EN/IEC 60730                                                                         |
| Product certifications                | EAC<br>CURus<br>CSA<br>CE                                                            |
| Ambient air temperature for operation | -10...55 °C conforming to UL 60730-1                                                 |
| Ambient air temperature for storage   | -20...85 °C                                                                          |
| Relative humidity                     | 10...90 % non-condensing                                                             |
| IP degree of protection               | IP20                                                                                 |
| Pollution degree                      | 2                                                                                    |

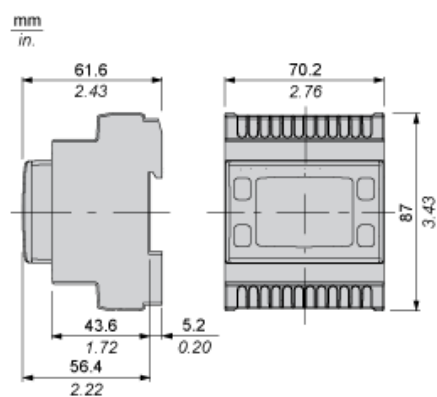
## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.298 kg |
| Package 1 Height | 1.300 dm |
| Package 1 width  | 0.900 dm |
| Package 1 Length | 1.900 dm |

## Offer Sustainability

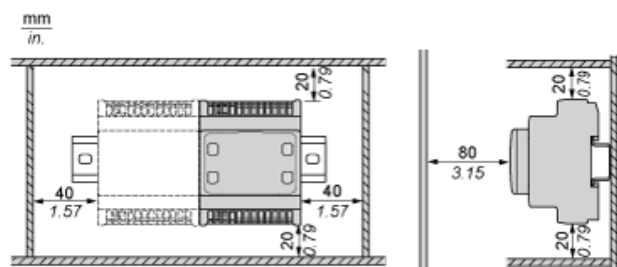
|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                |
| 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> |
| 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                                                          |

## Dimensions

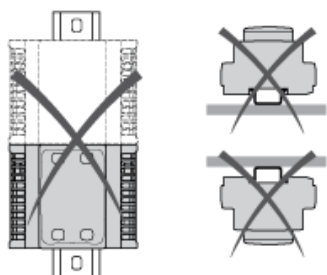


## Mounting and Clearance

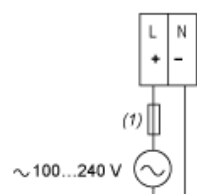
### Clearance



### Misplacement

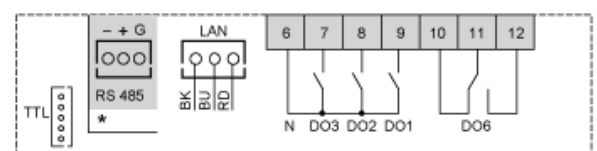


## Power Supply



(1) Type T fuse 160 mA

## Wiring Diagram



N : Neutral  
 GND : Ground  
 BK : Black  
 BU : Blue  
 RD : Red  
 AI : Analogue input  
 AO : Analogue output  
 DI : Digital input  
 DO : Digital output