



Main

Range of product	Modicon M171/M172
Product or component type	Controller
Product specific application	HVAC and pumping solution
Variant	Programmable
Number of inputs/outputs	22
Discrete input number	6
Discrete output number	1 for open collector 3 for relay outputs SPST with same common 2 for solid state SSR with independent common
Discrete output current	2 A for relay 2 A for triac
Analogue input number	3 analog input NTC 2 configurable
Analogue output number	3 voltage, range: 0...10 V 1 PWM/PPM, range: 20 kHz, 12 V, 35 mA 2 triac, range: 3 A

Complementary

Number of port	1 LAN expansion bus 1 RS485 - screw terminal block (Modbus serial link)
Input/output number	5 analog output(s) 6 digital input(s) 5 analog input(s) 6 digital output(s)
Discrete input logic	Sink or source (positive/negative)
Contacts usage	Volt-free contacts
Analogue input type	Voltage 0...10 V Current 0...20 mA/4...20 mA Voltage 0...1 V Voltage 0...5 V (ratiometric) NTC temperature probe - 50...100 °C - res.: 0.1 °C
Sensor power supply	12 V DC at 85 mA 5 V DC at 20 mA
[Us] rated supply voltage	12...24 V +/- 10 % AC 24 V +/- 10 % DC
Power consumption in W	4 W
Realtime clock	Built-in realtime clock at -20...55 °C
Display type	Four 7-segment display units
Overvoltage category	II
Local signalling	6 LEDs red 5 LEDs green 7 LEDs amber programmable
Mounting support	Flush mounting
Width	74 mm
Height	32 mm
Depth	76 mm
Product weight	0.164 kg

Environment

directives	2006/95/EC - low voltage directive 86/188/EEC - physical agents (noise) directive
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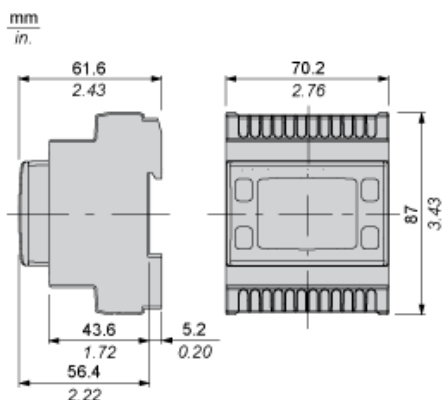
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standards	EN/IEC 60730
product certifications	CE CSA CURus EAC
ambient air temperature for operation	-20...55 °C conforming to UL 60730-1
ambient air temperature for storage	-40...85 °C
relative humidity	10...90 % non-condensing
IP degree of protection	IP20
pollution degree	2

Offer Sustainability

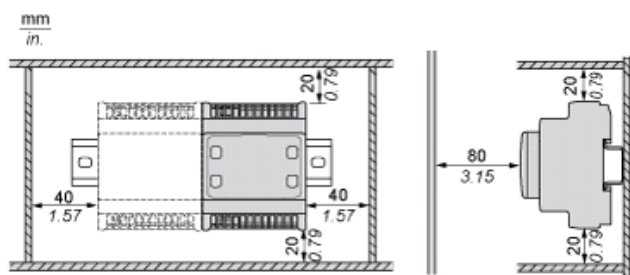
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1429 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions

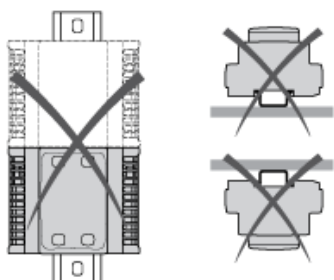


Mounting and Clearance

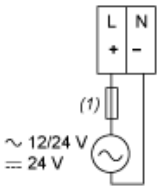
Clearance



Misplacement

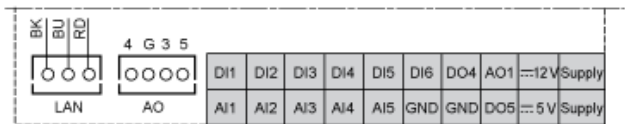
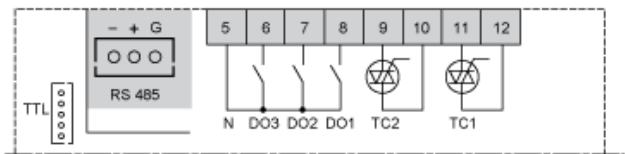
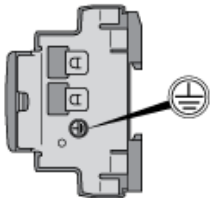


Power Supply



(1) Type T fuse (Controller: 1.25 A , Expansion: 1 A)

Wiring Diagram



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