



### Main

Range of product	Modicon M171/M172
Product or component type	Programmable controllers
Product specific application	HVAC and pumping solution
Variant	Programmable
Number of inputs/outputs	27
Discrete input number	8
Discrete output number	3 for relay outputs SPST with same common 2 for relay outputs SPDT with independent common 2 for solid state, isolated SSR with same common
Discrete output current	0.5 A for solid state, isolated 8 A for relay SPDT 5 A for relay SPST
Analogue input number	2 analog input NTC 4 configurable

### Complementary

Number of port	1 CAN port - screw terminal block 1 USB type A - USB type A female 1 USB type mini B - USB device port Mini-B 1 RS485 - screw terminal block (Modbus serial link)
Input/Output number	6 analog input(s) 5 analog output(s) 8 digital input(s) 7 digital output(s) 1 high-speed counter(s)
Discrete input logic	Sink or source (positive/negative)
Discrete input voltage	24 V AC/DC 48 V DC
Discrete input current	2.5 mA
Input impedance	20 kOhm
Analogue input type	Impedance 0...1500 hOhm Impedance 0...300 daOhm

Voltage 0...5 V (ratiometric)  
 Temperature probe, Pt 1000 - 200...800 °C - resolution: 0.1 °C  
 Temperature probe, NTC - 50...110 °C - resolution: 0.1 °C (extended)  
 Temperature probe, NTC - 40...150 °C - resolution: 0.1 °C  
 Current 4...20 mA  
 Voltage 0...10 V

Analogue output number	3 voltage/current, range: 4...20 mA or 0...10 V 2 open collector, range: 1 kHz, 12 V, 35 mA
Sensor power supply	5 V DC at 50 mA 12 V DC at 150 mA
[Us] rated supply voltage	24 V AC/DC (+/- 20%) 48 V DC (+/- 20%)
Power consumption in W	18 W at 24...48 V AC/DC
Realtime clock	Built-in realtime clock at -10...55 °C
Display type	LCD display - 128 x 64 pixels
Overvoltage category	II
Local signalling	1 LED red programmable 1 LED yellow programmable 1 LED green programmable
Mounting support	DIN rail
Width	140 mm
Height	110 mm
Depth	61.6 mm
Product weight	0.385 kg

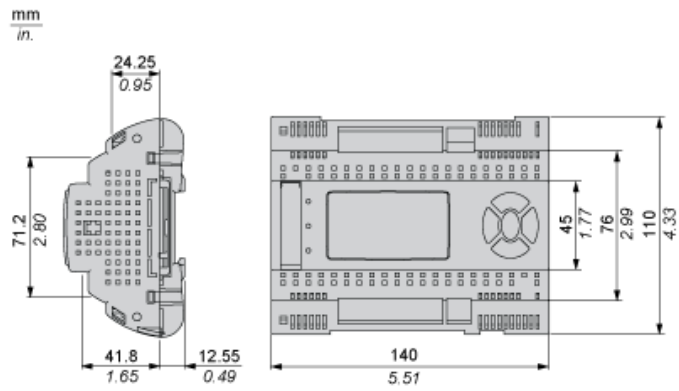
## Environment

Directives	86/188/EEC - physical agents (noise) directive 2011/65/EU - RoHS directive 2006/95/EC - low voltage directive 1907/2006/EC - REACH directive
Standards	EN/IEC 60730
Product certifications	CSA CE cURus EAC
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

## Offer Sustainability

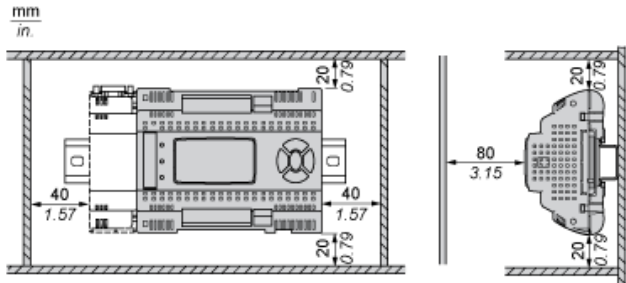
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1426 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>

Dimensions

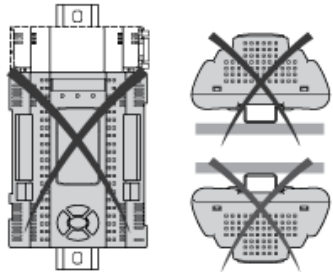


Mounting and Clearance

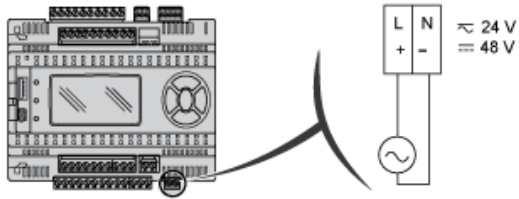
Clearance



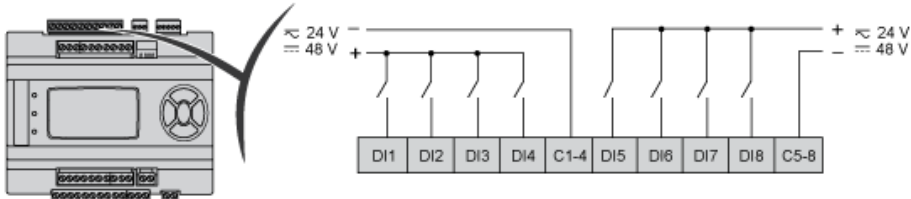
Misplacement



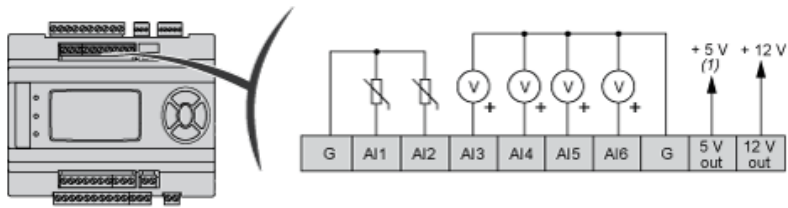
Power Supply



Digital Inputs

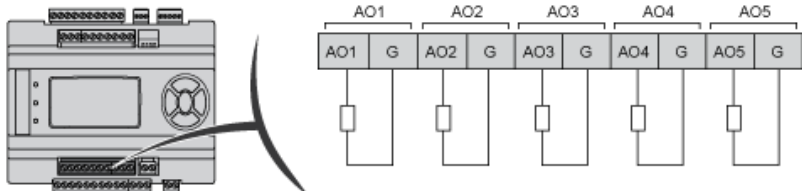


Analog Inputs



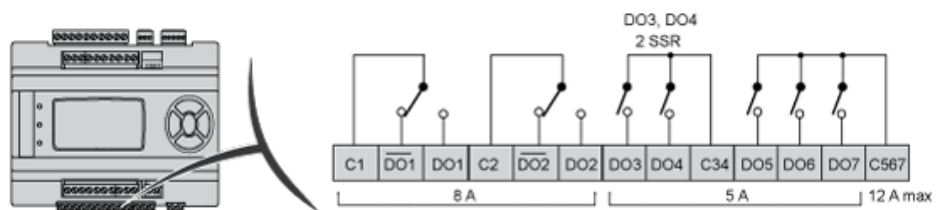
(1) Max current: 50 mA.  
G : Ground

Analog Outputs





Digital Outputs



C : common

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Fast Digital Input

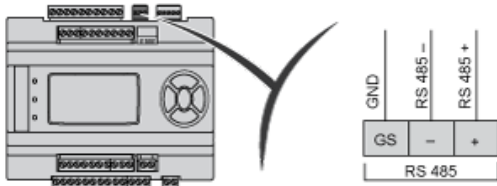
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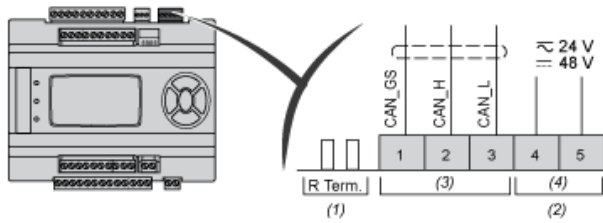
Serial Line Port (RS 485)

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Apply 120 Ohm terminal resistance  
GS serial GND isolated from G

CAN Expansion Bus

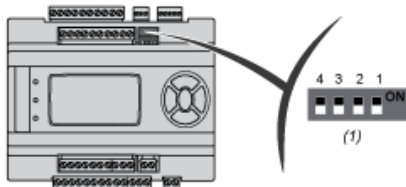


- (1) CAN terminal resistance
- (2) Output for remote keyboard
- (3) CANOPEN
- (4) Power Out

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4 DipSwitches

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(1) 4 DIP SWITCH  
LOW Address

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