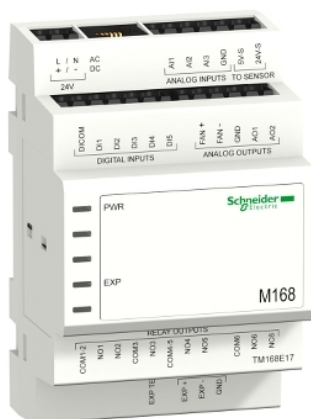




Main

Range of Product	Modicon M168 logic controller
Product or Component Type	Application-specific expansion module
Product Specific Application	Control of electronic expansion valve
Connector type	Without connector

Complementary

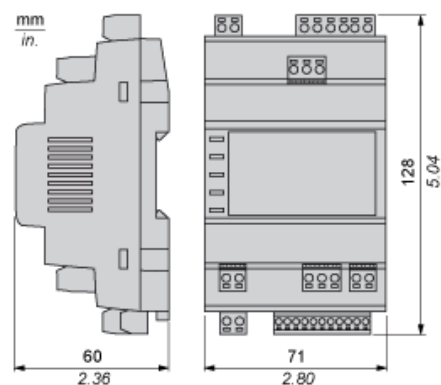
Discrete input number	2 no isolated digital input 1 isolated digital input
Contacts usage	Volt-free contacts
Discrete input voltage	100...240 V
Discrete input voltage type	AC/DC
Sensor power supply	12 V AC/DC
Voltage state 1 guaranteed	100 V auxiliary input
Analogue input number	1 2
Analogue input type	Voltage 0...10 V or 0...5 V ratio Current 0...20 mA/4...20 mA Temperature probe -100...400 °C Pt 1000 Temperature probe -50...+120 °C NTC 10k
Discrete output voltage	250 V AC
Discrete output current	5000 mA
Electrical durability	100000 Cycles 24 V AC 100000 cycles 24...37 V DC
Mounting Support	35 mm symmetrical DIN rail
Width	2.80 in (71 mm)
Height	5.04 in (128 mm)
Depth	2.36 in (60 mm)
Net Weight	0.38 lb(US) (0.172 kg)

Environment

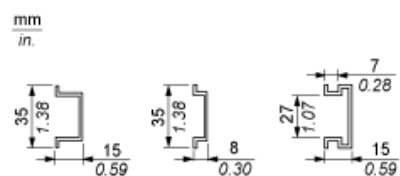
Standards	EN 60730-1 EN 61000-6-3 2006/95/EEC EN 61000-6-1 UL 60730
Marking	UL CE
Ambient air temperature for operation	14...140 °F (-10...60 °C)
Ambient Air Temperature for Storage	-13...140 °F (-25...60 °C)
Relative humidity	10...90 % without condensation
IP Degree of Protection	IP20
Pollution degree	2
Overvoltage category	III
Operating altitude	0...6561.68 ft (0...2000 m)

Electronic Expansion Valve Module

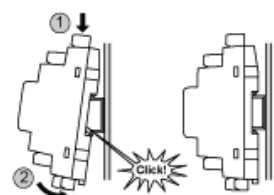
Dimensions



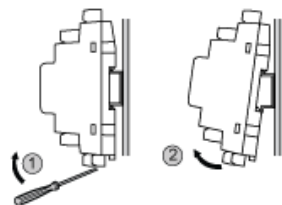
Mounting and Clearance



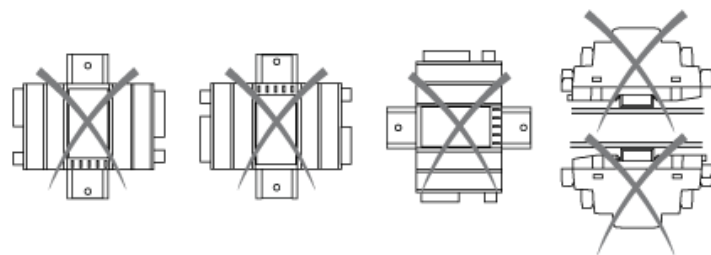
Mounting



Dismounting

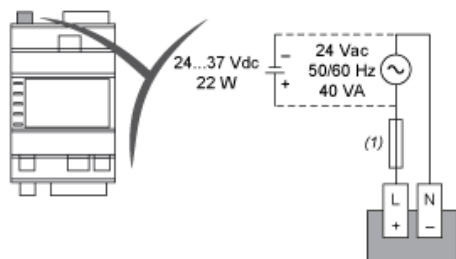


Misplacement



Power Supply

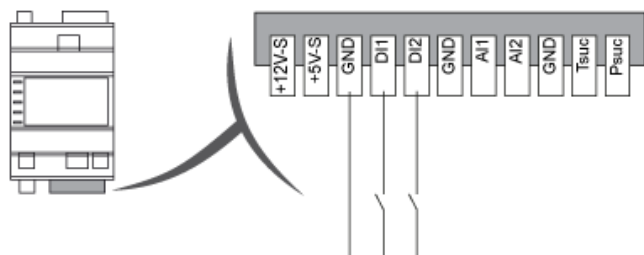
Wiring Diagram



(1) 2 A Type T 250 V AC

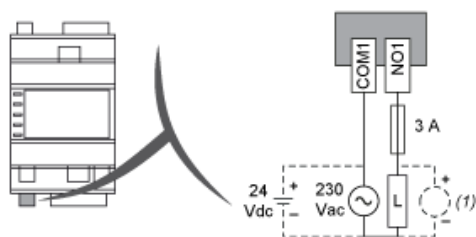
Dry Contact Digital Inputs

Wiring Diagram

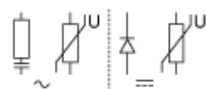


Digital Outputs

Wiring Diagram

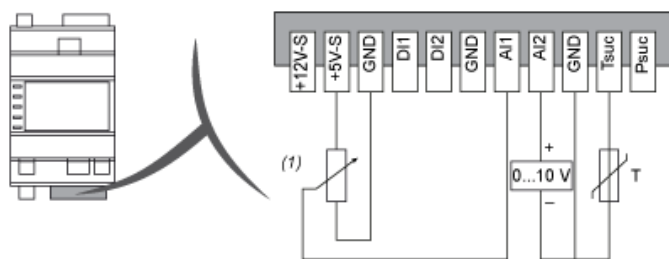


(1) Protection for inductive load



Analog Inputs

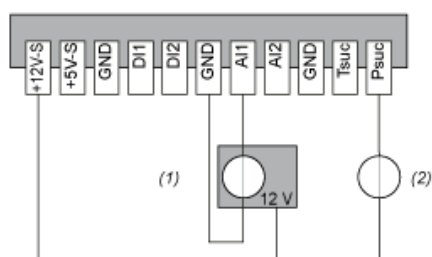
Temperature and Voltage Sensing



(1) Ratio

Analog Inputs

Current Sensing

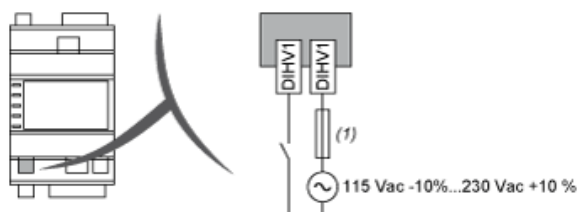


(1) 20 mA 3-wire Sensor

(2) 20 mA 2-wire Sensor

115/230 V AC Digital Input

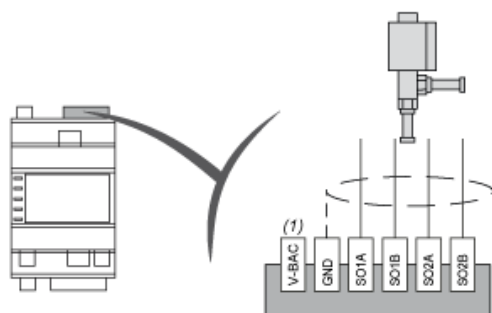
Wiring Diagram



(1) 2.5 mA Type T

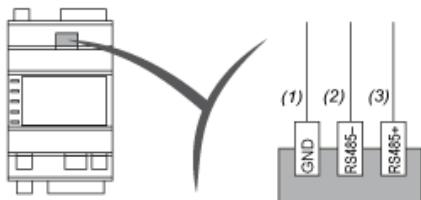
Bipolar Stepper Motor Digital Outputs

Electronic Expansion Valve



(1) Reserved for the backup power supply module

Modbus Serial Line Communication



- (1) BR - Brown
- (2) WH - White / BL - Blue
- (3) BL - Blue

Wiring Requirements

Cable Types and Wire Sizes

mm ²	0,08...2,5	0,25...2,5	0,25...1,5	2 x 0,25...2 x 0,75
AWG	28...14	24...14	24...16	2 x 24...2 x 18

Use copper conductors only. Use shielded cables for Modbus.

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