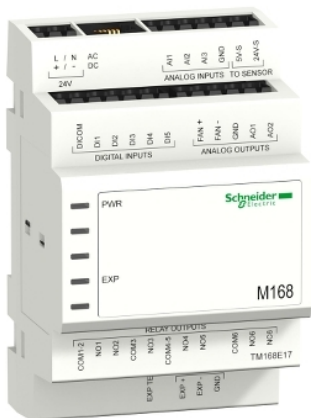


Characteristics

TM168BEVCM

M168 electronic expansion valve driver module stand alone



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
Contacts usage	Volt-free contacts
Sensor power supply	12 V
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	0.35 lb(US) (0.158 kg)

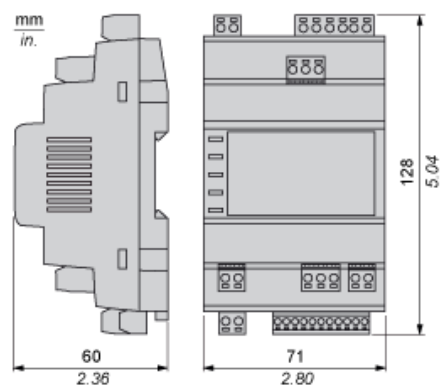
Environment

Standards	EN 60730-1 EN 61000-6-3 EN 61000-6-1 UL 60730 2006/95/EEC
Marking	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)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

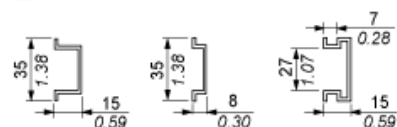
Electronic Expansion Valve Module

Dimensions

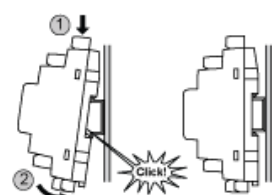


Mounting and Clearance

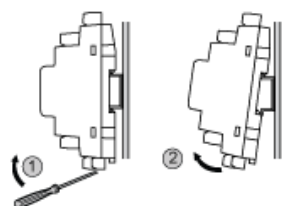
mm
in.



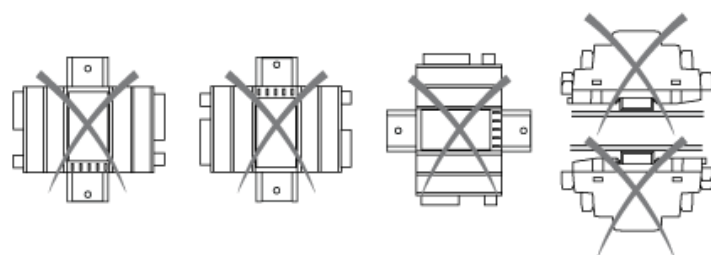
Mounting



Dismounting

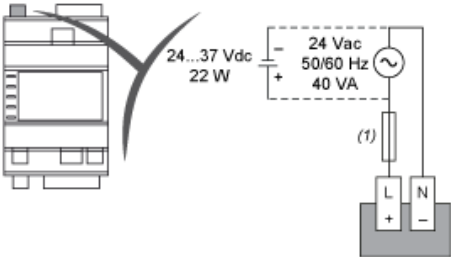


Misplacement



Power Supply

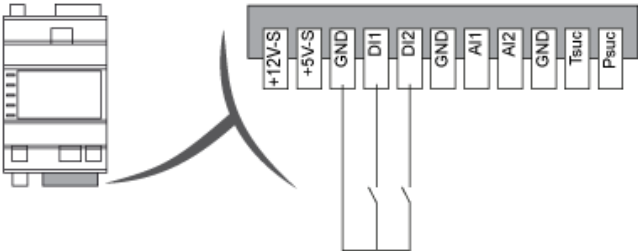
Wiring Diagram



(1) 2 A Type T 250 V AC

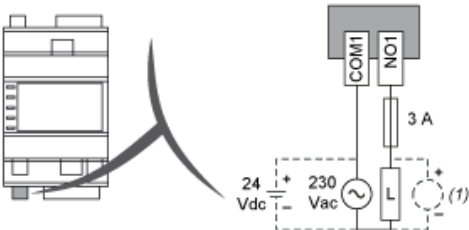
Dry Contact Digital Inputs

Wiring Diagram

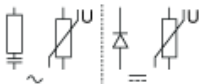


Digital Outputs

Wiring Diagram

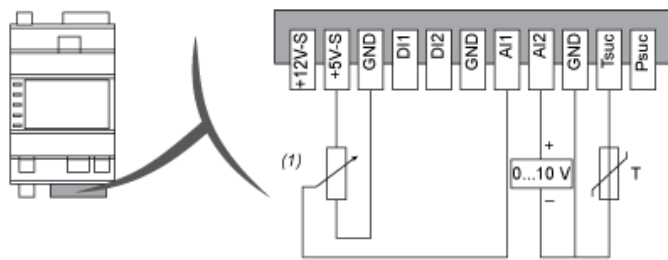


(1) Protection for inductive load



Analog Inputs

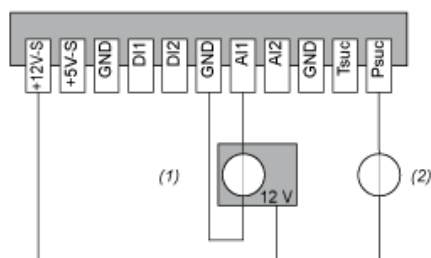
Temperature and Voltage Sensing



(1) Ratio

Analog Inputs

Current Sensing

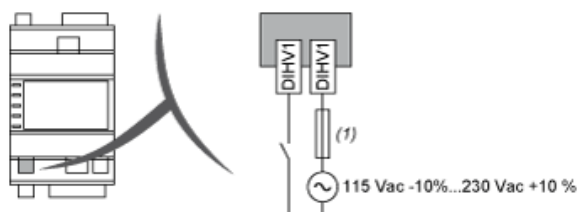


(1) 20 mA 3-wire Sensor

(2) 20 mA 2-wire Sensor

115/230 V AC Digital Input

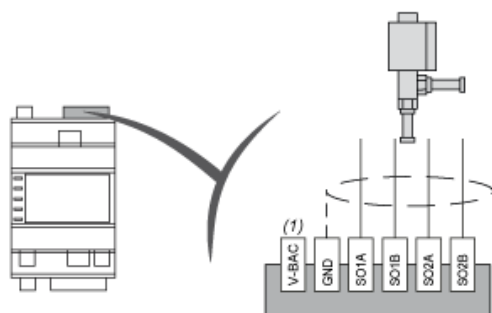
Wiring Diagram



(1) 2.5 mA Type T

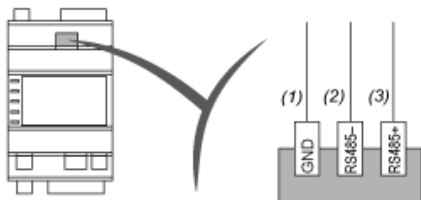
Bipolar Stepper Motor Digital Outputs

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 in.				
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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