

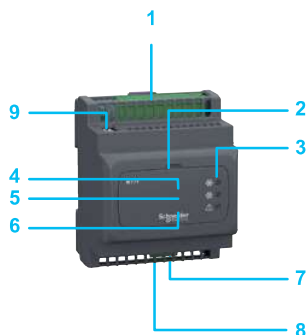
Presentation

Electronic expansion valve drivers

The 3 types of electronic expansion valve drivers are used to control the electronic expansion valve so as to control superheating after the evaporator.

- They are compatible with either performance or optimized logic controllers.
- They operate independently on measurement accessories such as:
 - NTC or PT1000 probes
 - Pressure transducers
- The 3 available electronic expansion valve drivers are compatible with competing valve brands such as those given in the table below:

Electronic expansion valve drivers Brand and type	Expansion valves Brand and type
Schneider Electric TM171VEVA2, TM171VEVD4, TM171VEVM4	ELIWELL™ SXVB
	ALCO™ EX4, EX5, EX6, EX7, EX8
	DANFOSS™ ETS50, ETS100
	SPORLAN™ SER(I) G, J, K, B, C, D SER1.5 to 20, SEI 30, 50, SEH



Description

35 mm/1.38 in. 1/2 rail mounting

TM171V●● electronic expansion valve drivers (1)

- 1 Output terminal block and power supply connector (24 V ~)
 - 2 Protective cover
 - 3 Three status LEDs
- Behind the removable protective cover:
- 4 6-position DIP switches
 - 5 Status LED (for operation with TM171AMFK programming stick)
 - 6 LAN serial port for connecting TM171DLED remote display
 - 7 Terminal block for analog/digital inputs
 - 8 Clip for 35 mm/1.38 in. 1/2 rail mounting
 - 9 TTL programming port

(1) TM171ASCTBVEV screw terminal block to be ordered separately, [see page 35](#)



TM171VEVA2



TM171VEVD4



TM171VEVM4

References

Electronic expansion valve drivers

Application	Number and type of channels	Reference	Weight kg/lb
Inputs	Outputs		
Actuator, convert 0-10 V or 4-20 mA in opening position contact	1 analog input: 1 x 4-20 mA, 0-5 V, or 0-10 V	1 digital output: 1 open collector (100 mA, 12 V ---)	TM171VEVA2 0.190/ 0.420
Autonomous, wired to manage On/Off contact	2 digital inputs: ■ 2 volt-free 4 analog inputs: ■ 2 NTC or PT1000, 4-20 mA, 0-5 V, or 0-10 V ■ 2 NTC or PT1000 (1)	2 digital outputs: ■ 1 open collector (100 mA, 12 V ---) ■ 1 SPST NO relay contact, 5 A, 250 V ~	TM171VEVD4 0.190/ 0.420
Autonomous, managed by Modbus (RS485)	2 digital inputs: ■ 2 volt-free 4 analog inputs: ■ 2 NTC (-50...+110 °C, -40...+150 °C/ -58...+203 °F, -40...+302 °F), PT1000, 4-20 mA, 0-5 V, or 0-10 V (1) ■ 2 NTC (-50...+110 °C, -40...+150 °C/ -58...+203 °F, -40...+302 °F), or PT1000 (1)	2 digital outputs: ■ 1 open collector (100 mA, 12 V ---) ■ 1 SPST NO relay contact, 5 A, ~ 250 V	TM171VEVM4 0.190/ 0.420

Accessories for electronic expansion valve drivers to be ordered separately

Designation	For connecting	Reference	Weight kg/lb
Screw terminal block for electronic expansion valve drivers	Power supply, sensor power supply, digital and analog I/O, Modbus link	TM171ASCTBVEV	0.050/ 0.110



TM171ASCTBVEV

(1) Two PT1000 (-50...+99.9 °C/-58... + 211.82 °F).