Actuator for Valves with Rotating Stem



Product Description

EM9 is an electronic actuator for motorising valves type VTRE and TRV with rotating valve stem.

EM9 operates on 24 V and is controlled by selectable 0...10 Vdc, 2...10 Vdc, 0...20 mA or 4...20 mA control signal.

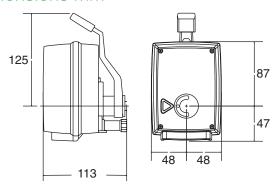
Specifications

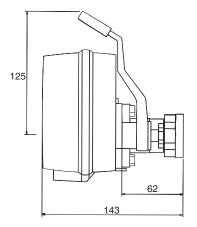
· ·	
Item numbers EM9/90° EM9/180°	860 1100 000 860- 1110 000
Supply voltage Power consumption	24 Vac, ±10%, 5060 Hz 3 VA
Duty cycle	10%
Torque	15 N-m
Control signal (selectable)	010 V/210 Vdc 020/420 mA dc
Running time Working range 90° (selectable) Working range 180° (selectable)	60/90/120s 120/180/240s
Operating temperature	−15 °C55 °C
Enclosure Rating	IP54
Main Construction Materials Enclosure Colour	Reinforced plastic PA66 Black/red
Weight	0.8 kg
Factory Settings Control input signal Running time	010 V
EM9/90 EM9/180 Control signal reaction Position	60 sec. 120 sec. Normal Mid-position

Features

- Programmable running time
- Reversible motor, gear train and an electronic circuit board in a plastic housing.
- All bearings are permanent lubrication type.
- Manual operation.
- Models for rotation of 90 degrees or 180 degrees.
- Position indication via pointer on the front cover.
- Control signal reaction can be programmed normal or inverted.
- Selectable jumpers are used to program running time, control signal type and reaction.

Dimensions mm





www.schneider-electric.com



Specification Sheet schneider-electric.com | 3

Function

EM9 is controlled by a voltage or current input so that a certain level always corresponds to a position of the actuator:

90 degrees working range	60, 90 or 120 sec.
180 degrees working range	120, 180, or 240 sec.

Mounting Kits

The EM9 for 90 degrees working range is delivered with details for motorising valves type VTRE.

 To use EM9 on valves type TRV, separately available mounting kits are necessary:

Butterfly valve TRV

Item Number 860 0991 000

 For the use of EM9 on valves with 180 working range Type VTRA/STMG additionally available mounting kits is necessary:

Mounting kit for Rotating disc type valve VTRA/STMG

Item Number 860 0990 000

Note that for valves with working range 180 the EM9/180 with working range 180 must be selected.

Wiring

Terminals	
AC	24 V, 5060 Hz
G0	System reference
Signal	Control signal

The actuator has two knockouts for cable inlets PG11



Installation

Installation is carried out according to instructions shipped with the actuator. The actuator may be mounted beside or above the valve. Mounting below the valve should be avoided.

Maintenance

Electric motor and gearbox are of permanent lubrication type and ensure a maintenance free actuator for normal operation.