



ELECTROTHERMAL ACTUATORS 100N

SE1

APPLICATION

Electrothermal actuator SE1 is used to control zone and fan-coil valves in HVAC systems. SE1 is suitable to drive VFX valve bodies series.

When actuators is not energized the valves are normally closed on direct way. Two action types are available: ON-OFF and modulating 0...10 Vdc.

The sensing element inside the capsule spreads out causing the movement of the shaft. So the stem valve connected to the shaft moves and opens the valve.

When actuator is powered OFF, the shaft goes up and the valve moves to the closed position by a spring return. The assembly actuator/valve body is done directly by a metal ring nut easy, no tool is necessary.

The actuator is fitted with position valve indication.

TYPE	FORCE N	STROKE mm	POWER SUPPLY Vac 50/60 HZ	ACTION	POWER CONSUMPTION VA
SE1M24	100	2.5	24	0...10 Vdc	3.5
SE1T24	100	2.5	24	ON/OFF	3.0
SE1T230	100	2.5	230	ON/OFF	3.0

TECHNICAL FEATURES

Power supply:

SE1M24 24 Vac ± 10% 50/60 Hz
SE1T24 24 Vac ± 10% 50/60 Hz
SE1T230 230 Vac ± 10% 50/60 Hz

Peak current:

SE1M24 < 0.25 A
SE1T24 < 0.25 A
SE1T230 < 0.70 A

Sensing element:

special wax

Timing:

SE1T230 3.5 min (2.5 mm at 20 °C)
SE1T24 4.5 min (2.5 mm at 20 °C)

Working temp.:

0...50 °C

Working humidity:

10...90 % r.h. (without condensing)

Storage temp.:

-20...70°C

Cable:

PVC, section 2 x 0,50 mm², length 2 m

Connection:

metal ring M30 x 1.5

Housing:

transparent

Protection class:

IP40, IP44 if mounted vertically

Self extinguishing:

V0 - V1 according to UL94

Dimensions:

see next page

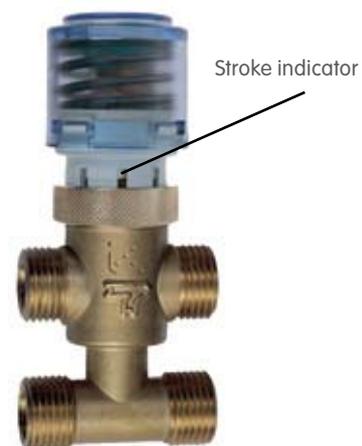
Weight:

200 g

INSTALLATIONS

Mount the thermal actuator on the valve body and tighten the metal ring nut on the thread of bonnet valve body. This operation must be done when the actuator is cold (not powered on). Perform the electrical connections as per electrical wiring diagrams. Pay attention that the power supply value corresponds to the value of actuator indicated on label stuck on the unit.

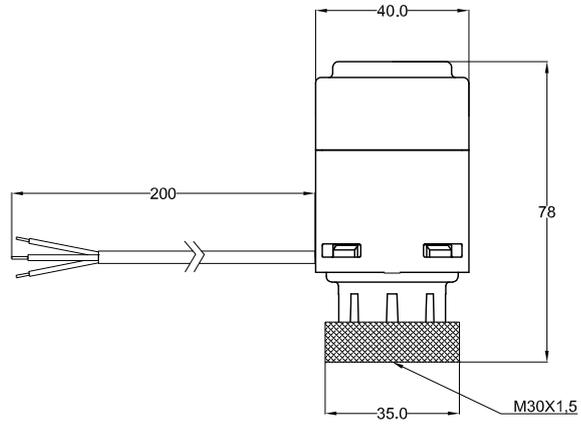
fig.1



WIRING DIAGRAM AND DIMENSIONS (mm)

SEIM24

COM	Blue
IN. (V) 0...10 V	Black
24 Vac	Brown



SEIT24 / SEIT230

COM	Blue
24/230 Vac SEIT24/SEIT230	Brown

