## AVM234S: 2500N Actuator

(With analog SUT positioner) 2 point or 3 point control and analogue I/O signals


## TECHNICAL DESCRIPTION

Power supply 230 V with modules or direct connection for $24 \mathrm{~V} \sim$ or $24 \mathrm{~V}=$; continuous activation also permissible at 230 V Two-part housing made of fire-retardant yellow plastic and seals to IP66.
Maintenance-free gearbox of sintered steel, gearbox plate of steel.
Patented actuator-valve coupling.
Mounting column made of stainless steel; mounting bracket (for fitting the valve) of aluminium
Electrical connections (max. $2.5 \mathrm{~mm}^{2}$ ) with screw terminals.
Three pre-scored cable inlets for M20×1.5 (2×) and M16×1.5.
Installation position: vertically upright to horizontal, but not upside down unless protected from dripping water.


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## AREAS OF USE

For use with two or three-way control valves. For controllers with continuous output ( $0 . . .10 \mathrm{~V}$ or $4 . . .20 \mathrm{~mA}$ ) or switching output (2-point or 3-point control.

## HOW ENERGY EFFICIENCY IS IMPROVED

Automatic adaptation to valve, precision control and high energy efficiency with minimal operating noise.

## FEATURES

- Pushing force of at least 2500 N
- Stepping motor with SUT (Superior Universal Technology) electronic control unit and electronic load-dependent cut-off
- Automatic detection of control signal applied (continuous or switching), indicated by two LEDs
- The type of characteristic (linear, quadratic or equal-percentage) can be set on the actuator
- Automatically adapts to valve stroke between 8 and 49 mm; captive even in the event of a power failure
- Direction of travel can be selected via screw terminals when making electrical connection or remotely
- Coding switches for selecting the characteristic and the running time ( 2,4 or $6 \mathrm{~s} / \mathrm{mm}$ )
- Lever for external manual adjustment, with motor cut-off, and for triggering a re-initialisation
- Easy assembly with valve; spindle is connected automatically when control voltage is applied

| Type | Positioning time <br> $(\mathrm{s} / \mathrm{mm})$ | Nominal stroke <br> $(\mathrm{mm})$ |
| :---: | :---: | :---: |
| AVM234SK002 | $2 / 4 / 6$ | 49 |

## DIMENSION DRAWING



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## TECHNICAL DATA



1) Also for 2-point or 3-point depending on the connection for 24 V ~
2) Design the transformers for this value, otherwise functional faults may occur.
3) If the temperature of the medium is higher (from $130^{\circ} \mathrm{C}$ to $240^{\circ} \mathrm{C}$ ), an adaptor is required (see accessories)

## CE conformity

EMC Directive 2004/108/EC
EN 61000-6-2
EN 61000-6-4

Over-voltage category III
Degree of pollution III
accessories

| Type | Description |
| :---: | :---: |
| 1-0152285 | Temperature adaptor for media temperature > $130^{\circ} \mathrm{C} . . .240^{\circ} \mathrm{C}$ |
| 1-0152287 | Potentiometer 1000 , $1 \mathrm{~W}, 24 \mathrm{~V}$; installation as per MV 505894 |
| 1-0152289 | Auxiliary change-over contacts (2 pcs. each) 12... 250 V Infinitely variable, min. 100 mA and 12 V , additional load 6(2) A, MV 505866 |
| 1-0152281 | 230 V Module, plug-in type, for 2-/3-point and continuous activation, additional power 2 VA 230 V 15\% power supply, MV $505901,50 / 60 \mathrm{~Hz}$ |
| 1-0152287 | 115 V Module, plug-in type 50/60 Hz |
| 1-0152627 | 4-20 mA Position feedback signal, for 24VAC/DC, output load resistor max. 600 ohm Accuracy +/- $5 \%$ of full range |
| 1-0147655 | Cable gland M $20 \times 1.5$ |


[^0]:    Subject to change without notice.

