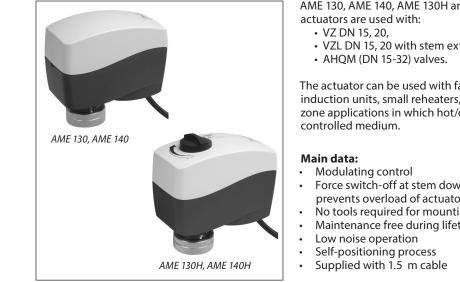


Data sheet

Actuators for modulating control AME 130, AME 140, AME 130H, AME 140H

Description



AME 130, AME 140, AME 130H and AME 140H

· VZL DN 15, 20 with stem extension plug or

The actuator can be used with fan coil units, induction units, small reheaters, recoolers, and zone applications in which hot/cold water is the

- Force switch-off at stem down position prevents overload of actuator and valve.
- No tools required for mounting
- Maintenance free during lifetime

Ordering

Туре	Supplyvoltage (V AC)	Speed (s/mm)	Code No.
AME 130	24	24	082H8044
AME 140		12	082H8045
AME 130H		24	082H8046
AME 140H		12	082H8047

Spare parts			
Туре	Code No.		
Cable (5 m)	082H8052		

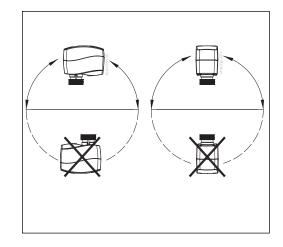
Technical data

Туре		AME 130, AME 130H	AME 140, AME 140H
Power supply	V	24 AC; +10 to -15%	
Power consumption	VA	1.3	
Frequency	Hz	50/60	
Controlling DV	V	0-10 (2-10) [Ri = 200 kΩ]	
Control Input Y	mA	0-20 (4-20) [Ri = 500Ω]	
Closing force	N	200	
Max. stroke	mm	5.5	
Speed	s/mm	24	12
Max. medium temperature inside the pipe		130	
Ambient temperature	°C	0 55	
torage and transport temperature		-40 70	
Ambient humidity		95 % r.h., non-condensing	
Protection Class		II	
Grade of enclosure		IP 42	
Weight	kg	0	.3
CE - marking in accordance with standard	ds	Low Voltage Directive (LVD) 2014/35/EU: EN 60730-1, EN 60730-2-14 Electromagnetic Compatibility Directive (EMC) 2014/30/EU: EN 61000-6-2, EN 61000-6-3	

Dantoss

Data sheet

Installation



Mechanical

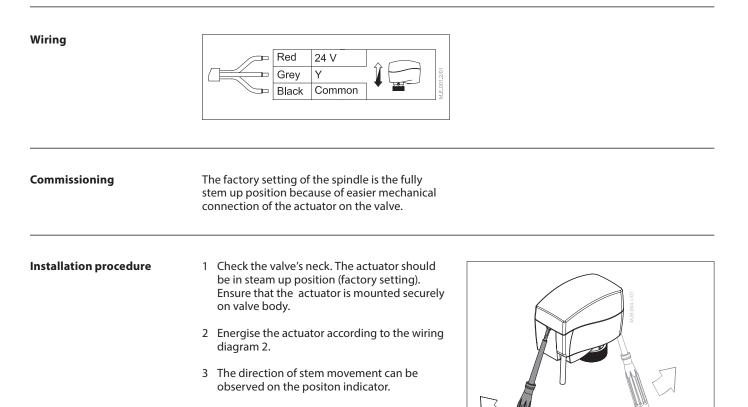
The actuator should be mounted with the valve stem in either horizontal position or pointing upwards.

The actuator is fixed to the valve body by means of a mounting ring which requires no tools for mounting. The ring should be tightened by hand.

Electrical

Important: It is strongly recommended that the mechanical installation is completed before the electrical installation.

Each actuator is supplied with the connecting cable for the controller.



position

indicator

AME 130, AME 140, AME 130H, AME 140H

DIP Switch Setting (for service purposes only) The actuator has a function selection DIP switch under the removable cover.

- The switch provides the following functions:
 - SW1: Reset

Changing this switch position will cause the actuator to go through a self stroking cycle.

• SW2:

0/2 - Input signal range selector

If set to OFF position, the input signal is in the range from 2 -10 V (voltage input) or from 4-20 mA (current input). If set to ON position, the input signal is in the range from 0-10 V (voltage input) or from 0-20 mA (current input).

• SW3:

D/I - Direct or inverse acting selector

If set to OFF position, the actuator is direct acting (stem lowers as voltage increases). If the actuator is set to ON position, the actuator is inverse acting (stem raises as voltage increases).

• SW4:

---/**Seq** - Normal or sequential mode selector:

If set to OFF position, the actuator is working in range 0(2)-10V or 0(4)-20mA. If set to ON position, the actuator is working in sequential range; 0(2)-5 (6)V or (0(4)-10 (12)mA) or (5(6)-10V) or (10(12)-20mA). • SW5:

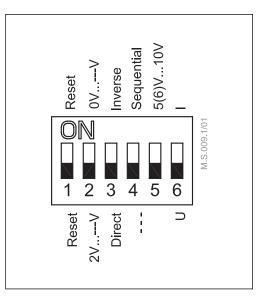
0 ... 5 V/5 ... 10 V - Input signal range in sequential mode:

If set to OFF position, the actuator is working in sequential range 0(2)-5 (6)V or 0(4)-10 (12) mA. If set to ON position, the actuator is working in sequential range; 5(6)-10V or 10(12)-20mA.

• SW6:

U/I - Input signal type selector

If set to OFF position, voltage input is selected. If set to ON position, current input is selected.



Manual override (for service purposes only)



Caution: Do not manually operate the drive under power!

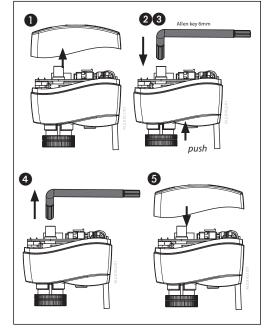
AME 130, AME 140

- 1 Remove the cover.
- 2 Insert the Allen key 6 into the spindle.
- 3 Press and hold the button (on the bottom side of the actuator) during manual override.
- 4 Pull out the tool.
- 5 Place cover back on the actuator.

Remark:

A "click" sound after energizing the actuator means that the gear wheel has jumped into normal position.

If manual override has been used, then Y signal is not correct until the actuator reaches it's end position. If this is not accepted, reset the actuator.



ENGINEERING TOMORROW



Data sheet

AME 130, AME 140, AME 130H, AME 140H

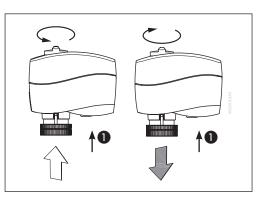
Manual override (continuous)

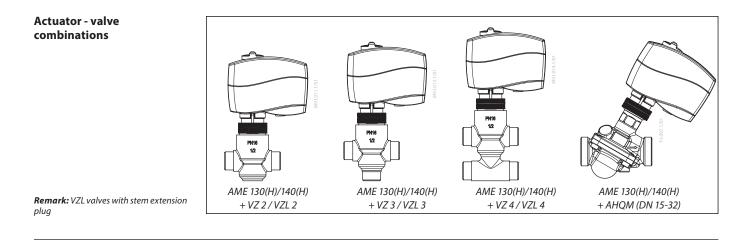
AME 130H, AME 140H

1 Press and hold the button (on the bottom side of the actuator) during manual override.

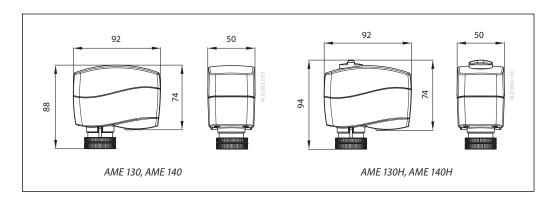
Remark:

A "click" sound after energizing the actuator means that the gear wheel has jumped into normal position.





Dimensions



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