

Data sheet

Electrical rotary actuators

AMB 162, AMB 182

Description



AMB 162 and AMB 182 actuators are used for temperature control in central heating systems together with 3-way and 4-way rotary valves of the types HRB and HFE.

The actuators are applicable with:

- Controllers with 3-point outlet (e.g. ECL)
- Controllers with standard voltage or current output (e.g. ECL)

Features:

- Manual operation
- Position indication
- 1.5 m wire included

Main Data:

- Nominal Voltage:
230 V, 50/60 Hz
24 V, 50/60 Hz
- Control Input signal: modulating or 3-point
- Torque: 5/10/15 Nm
- Rotation angle: 90 °
- Speed: 70, 140, 280 or 670 s/90 °

Ordering

Type	Torque (Nm)	Control signal	Speed (s/90°)	Supply voltage (V)	Remark	for valve DN	Code No.
AMB 162	5	3 - point	670	230 AC	-	15-50	082H0010
			140	230 AC	-		082H0011
				24 AC	AS*		082H0012
			70	230 AC	-		082H0013
		modulating	140	24 AC/DC	-		082H0014
				230 AC	AS*		082H0015
AMB 182	10	3-point	70	230 AC	-	65-100	082H0016
	15	3-point	280	24 AC	-		082H0017
				230 AC	AS*	125-150	082H0018
		modulating	140	24 AC	-		082H0019
				230 AC	AS*		082H0020
		modulating	140	24 AC/DC	-		082H0021
				230 AC	AS*		082H0022
		modulating	140	24 AC/DC	-		082H0023
				230 AC	AS*		082H0024

* Actuator with built-in auxiliary signal switch

Accessories

Type	Designation	Code No.
Linkage	Linkage kit ¹⁾	065Z0440
	Retrofit linkages for rotary valves ²⁾	065Z0441

¹⁾ Supplied with actuator AMB 162/182

²⁾ For combination with Danfoss old generation (2009) valves HRB3/HRB4/HFE3/HFE4

Technical data

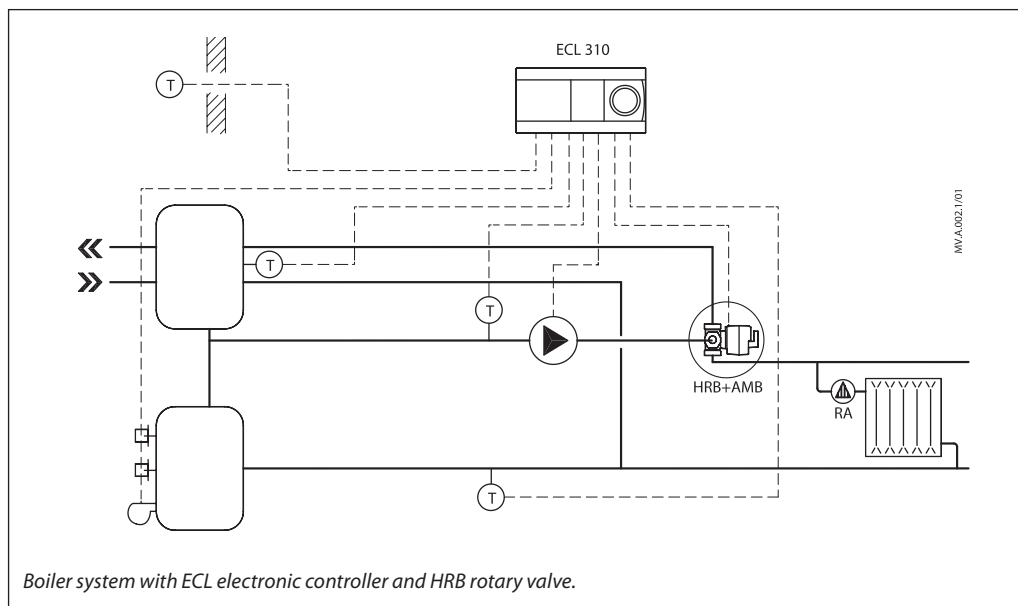
Power supply	V	24 AC/DC or 230 AC
Power consumption	VA	AMB 162: 2,5 AMB 182: 3,5
Frequency	Hz	50/60
Control Input		3-point 0-10 V (2-10 V)
Operating torque	Nm	5, 10 or 15
Rotation angle		90 °
Max. medium temperature	°C	130
Ambient temperature		0 ... 50
Storage and transport temperature		- 10 ... + 80
Protection Class		II
Grade of enclosure		IP 42
Weight	kg	0.15
CE marking in accordance with standards		Low voltage directive (LVD) 2006/95/EC: EN 60730-1, EN 60730-2-14 EMC Directive 2004/108/EC: EN 61000-6-2, EN 61000-6-3

Installation

The actuator can be mounted directly to the rotary valve.

Rotating angle is limited to 90° and when the actuator reaches the limit, the voltage supply to the actuator is disconnected.

Application principle



Wiring

24V



3	SP	24 VAC
2	SN	0 V
1	SP	24 VAC




Code No.:
082H0013, 082H0014, 082H0018, 082H0021

230V



3	SP	230 VAC
2	SN	0 V
1	SP	230 VAC




Code No.:
082H0010, 082H0011, 082H0012, 082H0015,
082H0017, 082H0019, 082H0020

24V

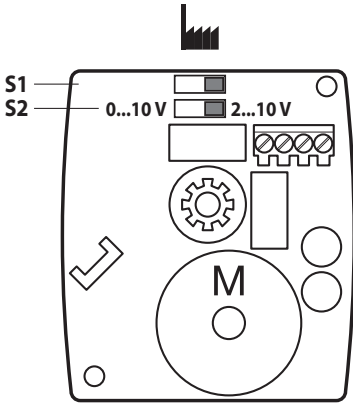


5	X	2...10 VDC
3	Y	0(2)...10 VDC
2	SP	24 V AC/DC
1	SN	0 V



Code No.:
082H0016, 082H0023

DIP switch setting



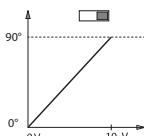
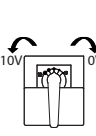
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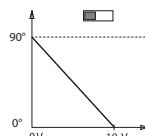
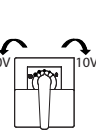
S2

0...10 V

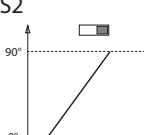
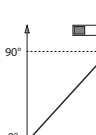
2...10 V

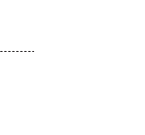
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S2




Dimensions

