

K275Y011 (K275-1)



Energy
Management

3-point floating actuator for R296, R297 mixing valves and R586R distribution units

Datasheet
0940EN 04/2024



Actuator to control the R296, R297 mixing valves and R586R distribution units in HVAC systems.
The actuator can be controlled with the KLIMAbus thermoregulation.

➤ Versions and product codes

PRODUCT CODE	POWER SUPPLY	USE
K275Y011	230 V - 50 Hz	R296, R297 mixing valves R586R distribution units

NOTE. The following kits are also supplied with the actuator:

- P275Y003: kit for actuator installation on R296 mixing valves
- P275Y004: kit for actuator installation on R297 3/4", 1", 1-1/4" mixing valves

Accessories

- P275Y001: kit for actuator installation on R297 1-1/2" and 2" mixing valves and R297 flanged
- P275Y005: kit for actuator installation on R586R DN32 distribution units

Spare parts

- P275Y003: kit for actuator installation on R296 mixing valves
- P275Y004: kit for actuator installation on R297 3/4", 1", 1-1/4" mixing valves

► Technical data

- Type of actuator: 3-point floating
- Supply voltage: 230 Vac, 50 Hz
- Command type: automatic or manual
- Torque: max 15 Nm
- Power: 6 VA
- Rotation time: 73 s
- Rotation angle: 90°
- Degree of protection: IP44
- Protection class: II
- Connection cable: 4 x 0,5 mm²; length 1 m
- Ambient temperature: 0÷55 °C
- Fluid temperature: according to valve's specifications
- Storage temperature: -20÷80 °C
- Weight: 480 g (without valve)
- Maintenance: maintenance free

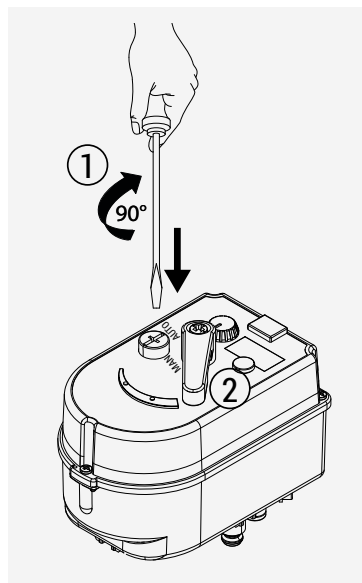
► Operation

Front panel description



- | | |
|---|--|
| 1 | Reversible mechanical indication |
| 2 | Button for manual/auto control |
| 3 | Lever for manual control, also serves for the indication of the valve position |
| 4 | Screws for cover removing |

Manual control



In the case of power failure or for service purposes, user can manually operate with the actuator:

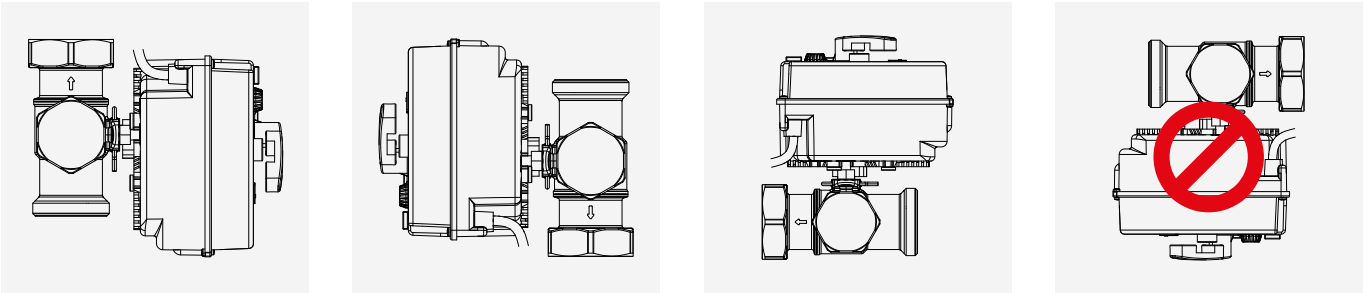
- with a screwdriver push and turn off the button to the MAN position.
- manually move the lever to desired position.

NOTE. When the button for manual operation is in MAN position, the actuator stays in temporary position regardless of control signal.

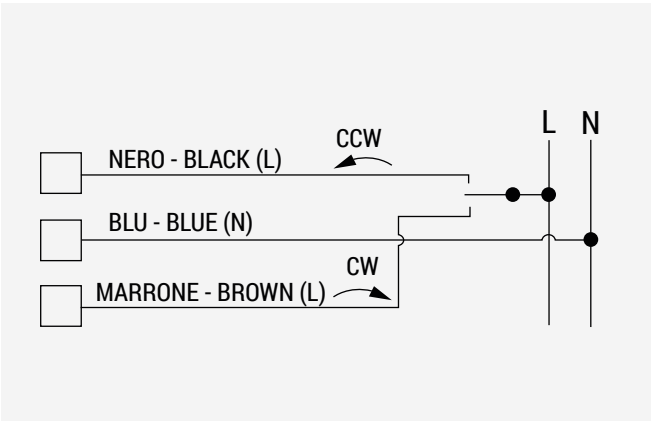
Installation

NOTE. To correctly install the K275Y011 actuator on Giacomini valves, refer to the instructions of the valves.

Allowed positions



Electrical connection



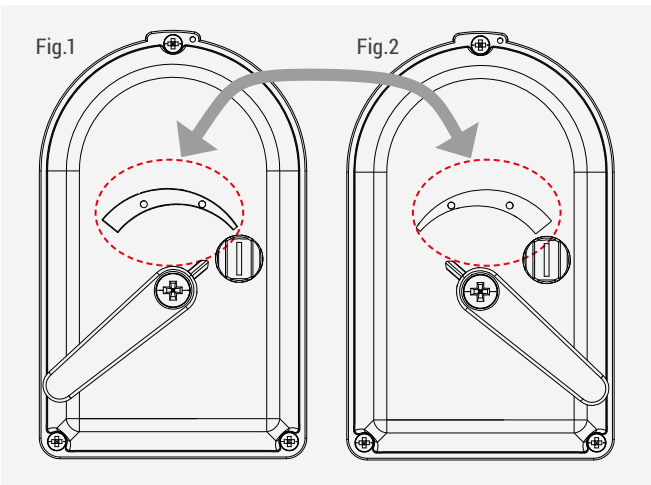
⚠ WARNING. Make sure the power supply voltage is disconnected while the connections are being carried out.

⚠ WARNING. Make and check the electrical connections before powering the system. Short circuits or incorrectly connected cables could cause permanent damage to the electrical components of the actuator.

WIRE COLOR	FUNCTION
Nero - Black	Supply 230 Vac (counterclockwise rotation direction)
Blu - Blue	Neutral
Marrone - Brown	Supply 230 Vac (clockwise rotation direction)

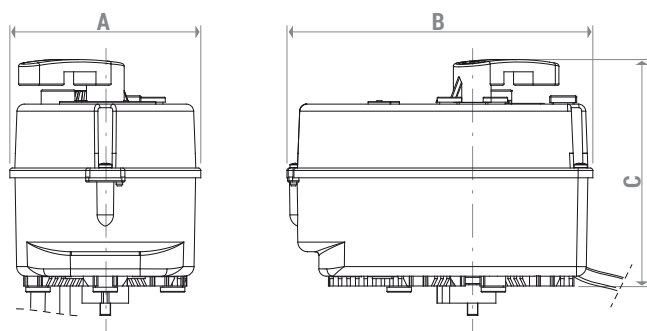
Indicator position

According to the cables connection (counterclockwise or clockwise rotation direction), set the indicator regarding to the application.



WIRE COLOR	Fig.1	Fig.2
Nero - Black	Opening CCW	Closing
Blu - Blue	Neutral	Neutral
Marrone - Brown	Closing	Opening CW

➤ Dimensions



PRODUCT CODE	A [mm]	B [mm]	C [mm]
K275Y011	78	125	93

➤ Reference standards

- EMC 2004/108/CE
- LV 2006/95/CE
- PAH 2005/69/CE

➤ Product specifications

K275Y011

3-point floating actuator to control the R296, R297 mixing valves and R586R distribution units in HVAC systems. Supply voltage: 230 Vac, 50 Hz. Command type: automatic or manual. Torque: max 15 Nm. Power consumption: 6 VA. Rotation time: 73 s. Rotation angle: 90°. Degree of protection: IP44. Protection class II. Connection cable: 4 x 0,5 mm²; length 1 m. Ambient temperature: 0÷55 °C. Fluid temperature: according to valve's specifications. Storage temperature: -20÷80 °C. Weight: 480 g (without valve). Maintenance: maintenance free. Complies with the Directive EMC 2004/108/EC and Low Voltage Directive 2006/95/EC.

⚠ Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

♻ Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

ℹ Additional information. For more information, go to giacomini.com or contact our technical assistance service. This document provides only general indications. Giacomini S.p.A. may change at any time, without notice and for technical or commercial reasons, the items included herewith. The information included in this technical sheet do not exempt the user from strictly complying with the rules and good practice standards in force.

♻ Product Disposal. Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.