DATA SHEET

Type 3005

PS

Electrical rotary actuator - On/Off and control

- Direct mounting on ball valves or butterfly valves
- Manual override as standard
- Adjustable limit switches
- Robust housing

Can be combined with

Type 2651
2/2- or 3/2-way ball valve, 2-piece

Type 2654
2/2-way ball valve, 3-piece

Type 2657
Ball valve, manually operated

Type 2671
Butterfly valve

Type 2674
Plastic butterfly valve

Type TKU001
2/2-way compact flange ball valve

The electrical rotary actuator Type 3005 PS is a compact and powerful actuator system that ensures a long service life.

The particularly robust housing also protects the actuator from various external influences and impacts. This makes it perfect for use within heavy industrial applications. The modular design also offers the option of equipping the actuators with further features such as heating resistors or potentiometers.

The materials have been selected for maintenance-free operation even in aggressive environments and ensure a low thermal load.

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Visit product website

Table of contents

1. General technical data 3
1.1. General data ... 3
1.2. Electrical data ... 4

2. Approvals and conformities 4
2.1. General notes ... 4
2.2. Conformity ... 4
2.3. Standards ... 4

3. Materials 4
3.1. Bürkert resistApp ... 4

4. Dimensions 5

5. Device/Process connections 6
5.1. Electrical connections ... 6

6. Product design and assembly 7
6.1. Product assembly ... 7

7. Ordering information 7
7.1. Bürkert eShop ... 7
7.2. Bürkert product filter ... 7
7.3. Ordering chart ... 8
On/Off variant ... 8
7.4. Ordering chart accessories ... 8
Actuator accessories ... 8
Reducing sleeves ... 8

DTS 1000532995 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

1. General technical data

1.1. General data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 5.
Material	
Cover	Polycarbonate (Lexan 943 A)
Body	Aluminium silicon alloy (AlSi12)
Weight	6 kg
Performance data	
Torque	100, 130, 150 Nm
Rotation angle	90° (adjustable)
Rotation time (90°)	19...32 s Further information can be found in chapter "7. Ordering information" on page 7.
Options	Heating resistor Potentiometer (100, 200, 500, 1000, 2000 Ω)
Electrical data	
Operating voltage	
Synchronous motor	24 V AC / 115 V AC / 230 V AC / 400 V
DC motor	24 V DC
Limit switches	4 adjustable (2 for the motor and 2 for the position feedback), max. 250 V AC 1 A inductive load 3 A ohmic load
Power consumption	27...45 W Further information can be found in chapter "7. Ordering information" on page 7.
Overvoltage category	II
Motor protection	Thermo switch (for actuators with alternating current (AC)) Multiple fuse (for actuators with direct current (DC))
Duty cycle	According to IEC60034 - 1.8 S2 short-term operation (On/Off variant) 20 min S3/S4 control operation 1200 cycles/hour, 25 % duty cycle at + 25 °C
Process/Port connection & communication	
Electrical connection	Cable glands according to ISO M20 × 1.5
Armature-side interface	Double square 22 mm
Position indicator	Standard
Approvals and conformities	
Degree of protection	IP67
Environment and installation	
Installation position	Do not install the actuator upside down, maximum installation angle: 90°
Ambient temperature	- 25 °C...+ 70 °C (S2)

DTS 1000532995 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

1.2. Electrical data

Actuator		Power supply	Voltage								
Variant	Torque		230 V AC		115 V AC		24 V AC		400 V		24 V DC
On/Off actuator	100 Nm	Frequency [Hz]	50	60	50	60	50	60	50	60	–
		Rotation time 90° [s]	23	19	23	19	23	19	23	19	–
		Nominal current [A]	0.12		0.23		1.1		0.065 1.)		–
		Maximum current [A]	0.14		0.28		1.3		0.075 1.)		–
		Power consumption 2.) [W]	27		27		27		45		–
	130 Nm	Frequency [Hz]	–		–		–		–		–
		Rotation time 90° [s]	–		–		–		–		32
		Nominal current [A]	–		–		–		–		1.3
		Maximum current [A]	–		–		–		–		2.5
		Power consumption 2.) [W]	–		–		–		–		31
	150 Nm	Frequency [Hz]	50	60	50	60	50	60	50	60	–
		Rotation time 90° [s]	23	19	23	19	23	19	23	19	–
		Nominal current [A]	0.17		0.3		1.5		0.08 1.)		–
		Maximum current [A]	0.2		0.36		1.8		0.1 1.)		–
		Power consumption 2.) [W]	39		39		39		55		–

1.) Per phase
2.) With max. torque and 50 Hz

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

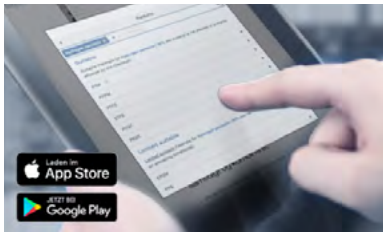
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

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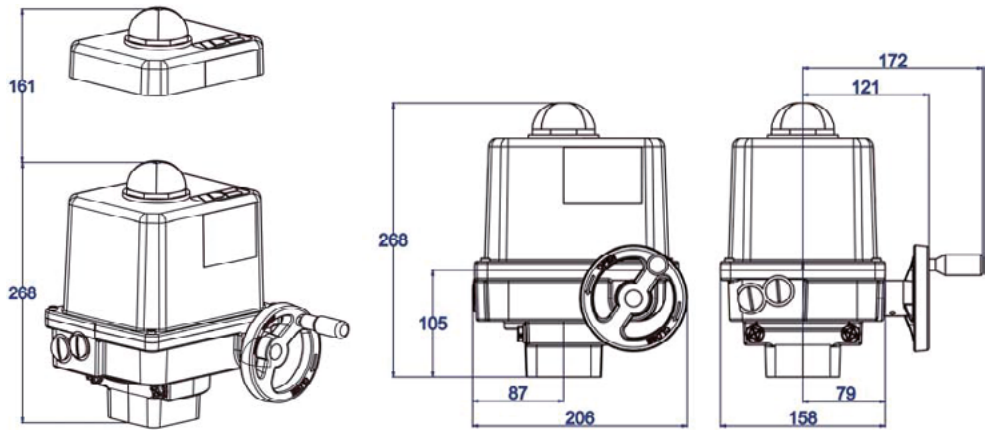
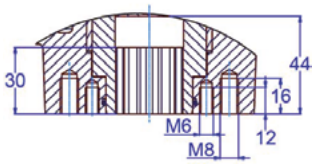
4. Dimensions

Note:
Dimensions in mm

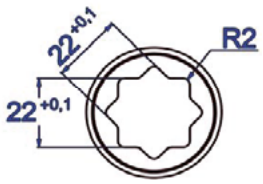
On/off variant



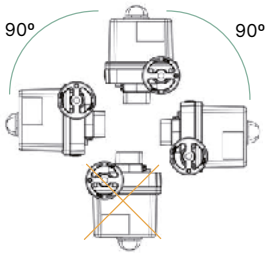
ISO flange dimension



Double square drive



Mounting positions



Armature-side interface according to ISO511	F05/F07
M	M6/M8
B	9/12 mm

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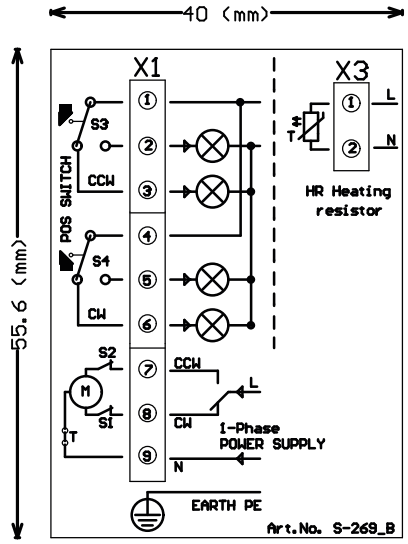
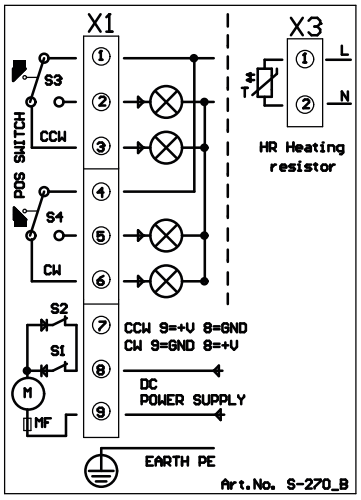
5. Device/Process connections

5.1. Electrical connections

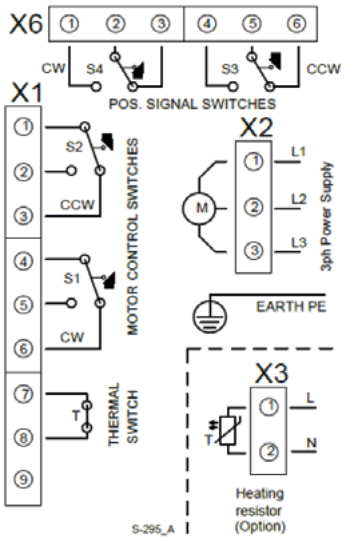
230 V, 115 V, 24 V
AC supply



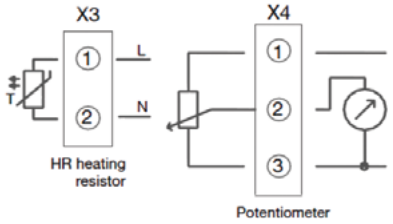
24 V
DC supply

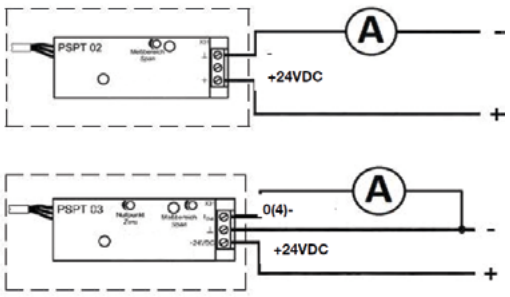


400 V AC



Options





Position feedback indicator

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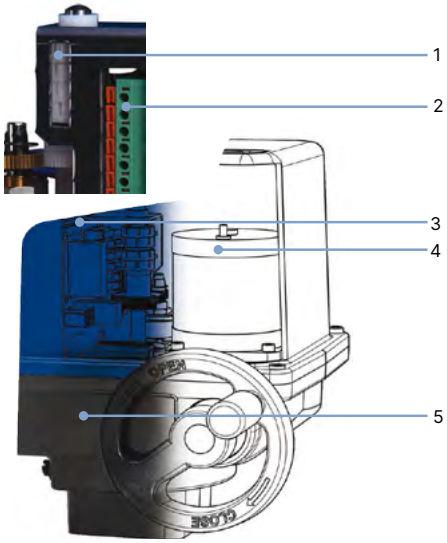
6. Product design and assembly

6.1. Product assembly



No.	Element
1	Predefined switching cams
2	Spring terminals
3	Metal central beam
4	Synchronous motor
5	Robust Wolfrom planetary gear

7. Ordering information

7.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

7.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

DTS 1000532995 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

7.3. Ordering chart

On/Off variant

Torque [1.]	Double Square	Interface according to ISO 5211	90° rotation time [2.]			Article no.	Article no.	Article no.	Article no.	Article no.
			AC		DC	230 V AC	115 V AC	24 V AC	400 V	24 V DC
			50 Hz	60 Hz						
[Nm]	[mm]		[s]	[s]	[s]					
100	22	F05/07	23	19	–	20024161	20024162	20024163	20024164	–
130			–	–	32	–	–	–	–	20024165
150			23	19	–	20024166	20024167	20024168	20024169	–

1.) For the actuator choice, we recommend a safety torque equal to 1.5 times of the valve maximal torque.
2.) Other rotation angles are available on request.

Other variants on request

Voltage
Other supply voltages

7.4. Ordering chart accessories

Actuator accessories

Description	Article no.
Heating resistor for Type 3003-PS (for 230 V AC and 115 V AC actuators)	774106
2-wire position indicator for Type 3003-PS	774210
3-wire position indicator for Type 3003-PS	774107
Potentiometer 100 Ω for Type 3003-PS (for On/Off variant)	774108
Potentiometer 200 Ω for Type 3003-PS (for On/Off variant)	774109
Potentiometer 500 Ω for Type 3003-PS (for On/Off variant)	774110
Potentiometer 1000 Ω for Type 3003-PS (for On/Off variant)	774111
Potentiometer 2000 Ω for Type 3003-PS (for On/Off variant)	774112
Potentiometer 2000 Ω (for On/Off variant)	774113

Reducing sleeves

Description	Article no.
Reducing sleeve double square/square 14/9 mm	665288
Reducing sleeve double square/square 14/11 mm	665289
Reducing sleeve square/square 22/19 mm	773836
Reducing sleeve double square/square 22/17 mm	684858
Reducing sleeve double square/double square 22/14 mm	666684
Reducing sleeve double square/square 22/11 mm	773344

DTS 1000532995 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026