Type 3003

PS

Electrical Rotary Actuator - On/Off and control

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

Product variants described in the data sheet may differ from the product presentation and description.

DTS 1000361793 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

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

Type description

The electrical rotary actuator Type 3003 PS is a compact and powerful actuator system which guarantees a long service life.

Materials and components have been chosen for maintenance-free operation even in aggressive environments and ensure low thermal loading on the actuator.

The robust housing protects the actuator against environmental influences and impacts. Moreover, the modular design offers many additional features such as heating resistors and potentiometers.

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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 ... 5

3. Materials 5
3.1. Bürkert resistApp ... 5

4. Dimensions 6

5. Device/Process connections 7
5.1. Electrical connections ... 7

6. Product design and assembly 8
6.1. Product assembly ... 8

7. Ordering information 8
7.1. Bürkert eShop ... 8
7.2. Bürkert product filter ... 9
7.3. Ordering chart ... 9
On/Off variant ... 9
Control variant with analogue input and analogue output signal ... 9
7.4. Ordering chart accessories ... 10
Actuator accessories ... 10
Reducing sleeves ... 10

DTS 1000361793 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 6.
Material	
Cover	Polycarbonate (Lexan 943 A)
Body	Aluminium silicon alloy (AlSi12)
Weight	
On/Off variant (without accessories)	2.5 kg
Control variant (without accessories)	4 kg
Performance data	
Torque	
On/Off variant	25, 50 Nm
Control variant	25, 45 Nm
Rotation angle	90° (adjustable)
Rotation time (90°)	5...80 s Further information can be found in chapter "7. Ordering information" on page 8.
Options	Heating resistor (except at 400 V) 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	8...55 W Further information can be found in chapter "7. Ordering information" on page 8.
Overvoltage category	II
Control drive with analogue input signal and analogue output signal	
Input	2...10 V / 0...10 V / 4...20 mA / 0...20 mA
Output	0...10 V
Motor protection	Thermoswitch Multiple fuse for On/Off variant with 24 V 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 gemäß M20 × 1.5
Armature-side interface	Double square 17 mm
Position indicator	Standard
Approvals and conformities	
Degree of protection	IP65
Environment and installation	
Installation position	Do not install the actuator upside down, maximum installation angle: 90°.
Ambient temperature	
On/Off variant	- 25 °C...+ 70 °C (S2)
Control variant	- 20 °C...+ 60 °C (S4)

DTS 1000361793 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 variant	25 Nm	Frequency [Hz]	50 / 60	50 / 60	50 / 60	–	–
		Operation time [s]	17 / 14	17 / 14	17 / 14	–	9
		Nominal current [A]	0.08	0.15	0.8	–	0.6
		Maximum current [A]	0.09	0.18	0.96	–	1.2
		Power consumption [W]	17 / 23	18 / 20	18 / 23	–	15
	50 Nm (fast rotation)	Frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	–
		Operation time [s]	6 / 5	6 / 5	6 / 5	6 / 5	–
		Nominal current [A]	0.17	0.34	1.6	0.08	–
		Maximum current [A]	0.2	0.41	1.9	0.13	–
		Power consumption [W]	39	39	39	55	–
	50 Nm (medium-fast rotation)	Frequency [Hz]	50 / 60	50 / 60	50 / 60	–	–
		Operation time [s]	33 / 28	33 / 28	33 / 28	–	16
		Nominal current [A]	0.05	0.13	0.6	–	0.6
		Maximum current [A]	0.06	0.15	0.73	–	1.2
		Power consumption [W]	13	15	15	–	15
	50 Nm (slow rotation)	Frequency [Hz]	50 / 60	50 / 60	50 / 60	–	–
		Operation time [s]	80 / 67	80 / 67	80 / 67	–	–
		Nominal current [A]	0.03	0.07	0.33	–	–
		Maximum current [A]	0.04	0.08	0.4	–	–
		Power consumption [W]	8	8	8	–	–
Control variant	25 Nm	Frequency [Hz]	50 / 60	50 / 60	50 / 60	–	–
		Operation time [s]	17 / 14	17 / 14	17 / 14	–	–
		Nominal current [A]	0.05	0.13	0.6	–	–
		Maximum current [A]	0.06	0.15	0.73	–	–
		Power consumption [W]	12	15	15	–	–
	45 Nm	Frequency [Hz]	50 / 60	50 / 60	50 / 60	–	–
		Operation time [s]	17 / 14	17 / 14	17 / 14	–	–
		Nominal current [A]	0.1	0.2	1	–	–
		Maximum current [A]	0.12	0.24	1.2	–	–
		Power consumption [W]	22	22	22	–	–

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.

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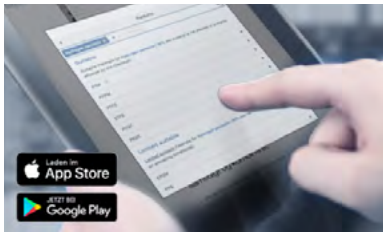
2.3. Standards

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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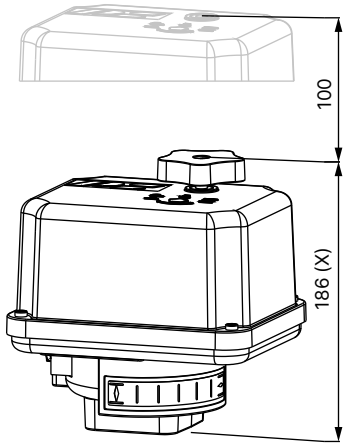
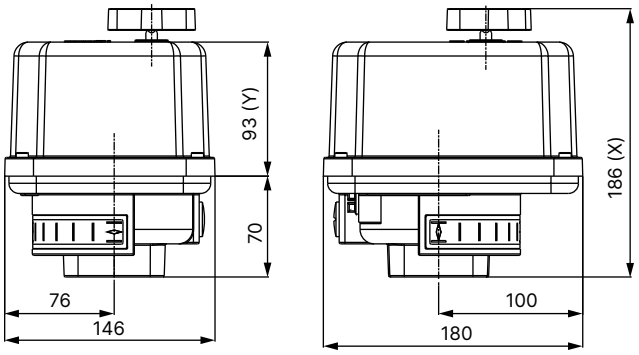
4. Dimensions

Note:
Dimensions in mm

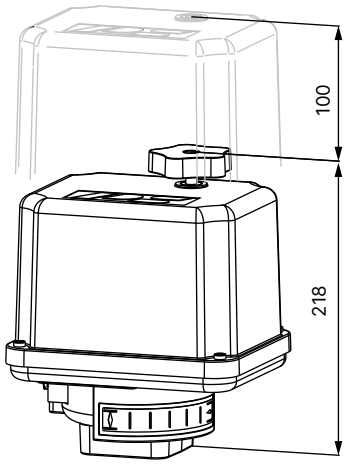
On/Off variant

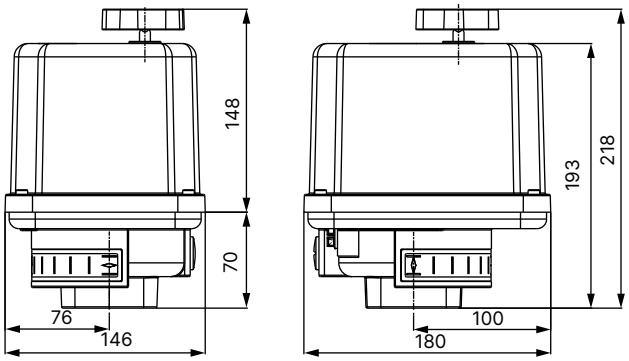


For 6 s variant: X = 251 Y =123

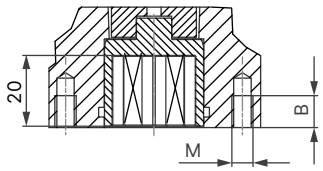


Control variant

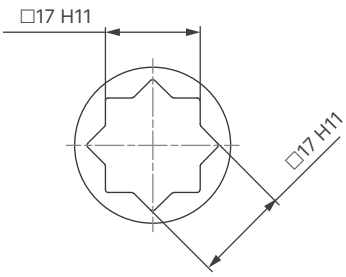




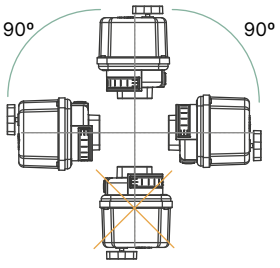
ISO flange dimension



Double square drive



Mounting positions



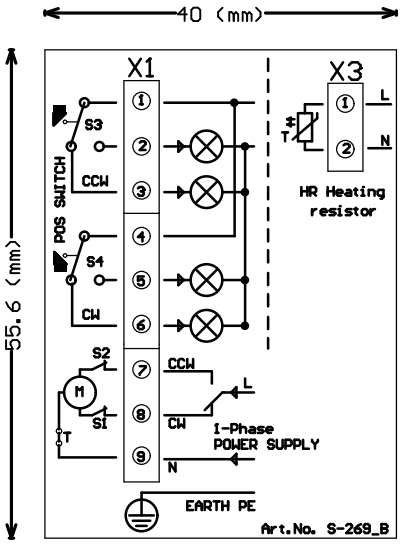
Armature-side interface according to ISO 5211	F04/F07	F05/F07
M	M5/M8	M6/M8
B	8/12 mm	9/12 mm

DTS 1000361793 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

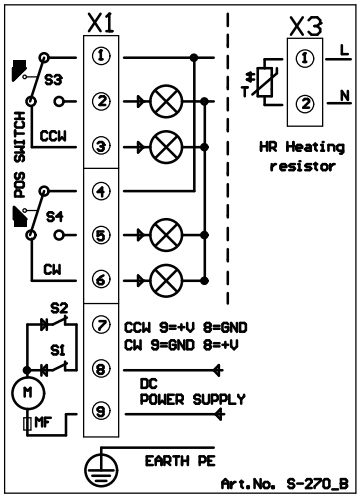
5. Device/Process connections

5.1. Electrical connections

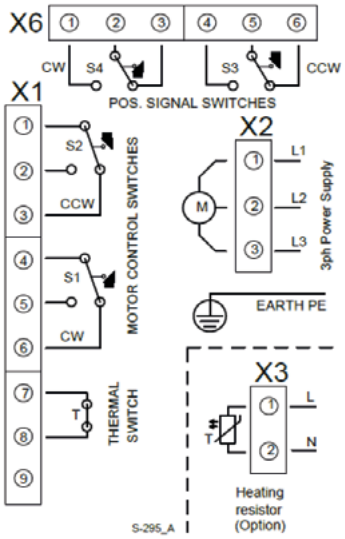
230 V, 115 V, 24 V
AC supply



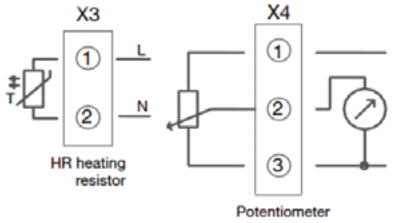
24 V
DC supply

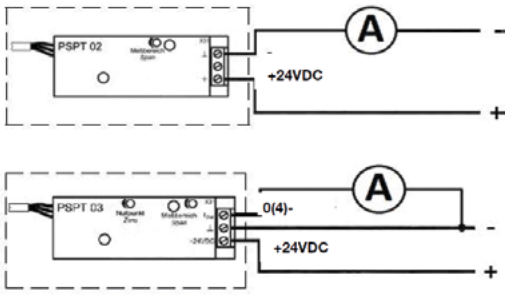


400 V AC



Options





Position feedback indicator

DTS 1000361793 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

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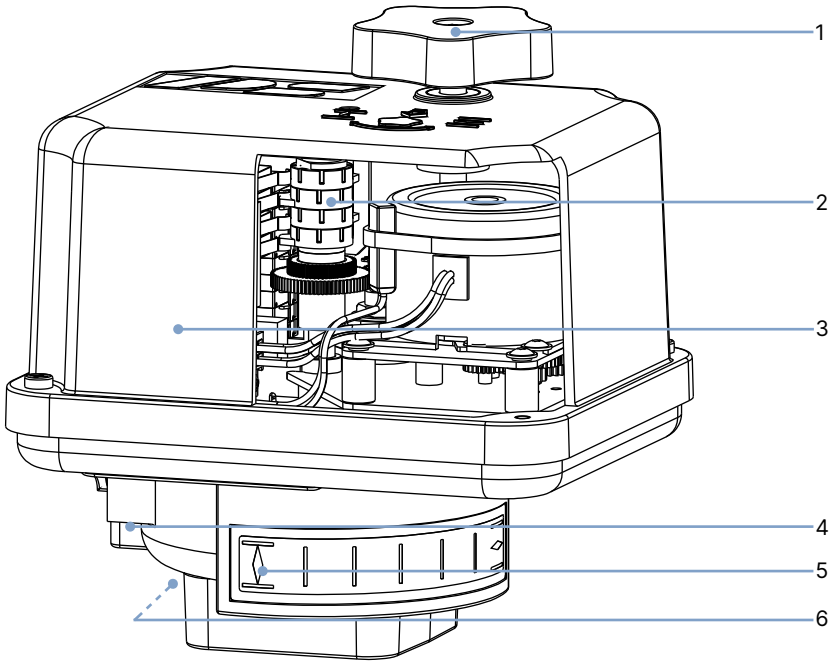
6. Product design and assembly

6.1. Product assembly



No.	Element
1	Manual override
2	Predefined switching cams
3	Cover in UV-resistant polycarbonate, IP65
4	Gear housing in aluminium
5	Position indicator
6	Stop screw (adjustable from the outside)

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

7.3. Ordering chart

On/Off variant

Torque [1.]	Double square	Interface acc. to ISO 5211	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]					
25	17	F05/07	17	14	–	329988	329989	329990	–	–
		F04/07			–	329991	329992	329993	–	–
		F05/07	–	–	9	–	–	–	–	329994
		F04/07	–	–		–	–	–	–	329995
50		F05/07	6	5	–	329996	329997	329998	329999	–
			–	–	16	–	–	–	–	330000
			33	28	–	330001	330002	330003	–	–
			80	67	–	330004	330005	330006	–	–

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.

Control variant with analogue input and analogue output signal

Torque [1.]	Double square	Interface acc. to ISO 5211	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]					
25	17	F05/07	17	14	–	330007	330008	330010	–	–
		F04/07			–	330011	330012	330013	–	–
45		F05/07	17	14	–	330014	330015	330016	–	–
		F04/07			–	330017	330018	330019	–	–

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

DTS 1000361793 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

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
Heating resistor for Type 3003-PS (for 24 V AC/DC actuators)	774210
2-wire position indicator for Type 3003-PS	774107
3-wire position indicator for Type 3003-PS	774108
Potentiometer 100 Ω for Type 3003-PS (for On/Off variant)	774109
Potentiometer 200 Ω for Type 3003-PS (for On/Off variant)	774110
Potentiometer 500 Ω for Type 3003-PS (for On/Off variant)	774111
Potentiometer 1000 Ω for Type 3003-PS (for On/Off variant)	774112
Potentiometer 2000 Ω for Type 3003-PS (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 17/14 mm	665290
Reducing sleeve double square/square 17/14 mm	773348
Reducing sleeve double square/square 17/11 mm	773343
Reducing sleeve square/square 22/19 mm	773836
Reducing sleeve double square/square 22/17 mm	684858
Reducing sleeve double square/double suqare 22/14 mm	666684
Reducing sleeve double square/square 22/11 mm	773344
Reducing sleeve double square/square 27/22 mm	774594
Reducing sleeve square/square 27/19 mm	774279
Reducing sleeve square/square 27/17 mm	774193

DTS 1000361793 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026