

Technical data sheet

340TA-230-05-S2/8Fx

Spring return fire

Description

Spring-return actuator including external thermal tripping device TA-72 (72°C) for fire and smoke dampers of 90° angle of rotation to be used in HVAC installations.

- Torque Motor 5 Nm
- Torque Spring 5 Nm
- Nominal Voltage 230 VAC/DC
- Control 2 Point
- Auxiliary switch 2x fixed, not adjustable
- Damper coupling form closure 8 mm (8F 8)
 form closure 10 mm (8F10)
 form closure 12 mm (8F12)



Technical data

Electrical data	Nominal voltage	230 VAC (50/60Hz), 230 VDC
	Nominal voltage range	85...265 VAC
	Power consumption motor (motion)	5,5 W
	Power consumption standby (end position)	2,0 W
	Wire sizing	9,5 VA
	Control	2 Point
	Position feedback	-
	Auxiliary switch	2 x SPDT (AgAu)
	Contact load	1 mA...5 (2,5) A, 5 VDC...250 VAC
	Switching point	5° / 80° @ -5°...+90°
	Thermal tripping device	2 x acc. EN 60691
	Temperature TF1	+72 °C (Inside-Duct)
	Temperature TF2	+71 °C (Outside-Duct)
Functional data	Connection Motor	Cable 1000 mm, 2 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6 x 0,75 mm ² (halogen free)
	Connection GUAC	-
	Torque Motor	>5 Nm
	Torque Spring	>5 Nm
	Synchronised speed	±5%
	Direction of rotation	selected by mounting
	Manual override	Manual operation
	Angle of rotation	-5°...max.+90°
	Running time Motor	<75 s / 90°
	Running time Spring	<20 s / 90°
	Sound power level Motor	<45 dB(A)
	Sound power level Spring	<65 dB(A)
Damper coupling		form closure 8 mm (8F 8) form closure 10 mm (8F10) form closure 12 mm (8F12)

Technical data

Functional data	Position indication	mechanical with pointer
	Service life	>60.000 cycles (-5°...+90°...-5°)
Safety	Protection class	II (double insulation)
	Degree of protection	IP54
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1.AA B (EN60730-1)
	Rated impulse voltage	4 kV (EN60730-1)
	Control pollution degree	3 (EN60730-1)
	Ambient temperature normal operation	-30°C...+50°C
	Ambient temperature safety operation	>+75 °C
	Storage temperature	-30°C...+50°C
	Ambient humidity	5...95% r.F., not condensing (EN 60730-1)
	Maintenance	maintenance-free
Dimensions/ Weight	Dimensions	145 x 75 x 70 mm
	Weight	ca. 1.200g

Operating mode / Properties

Operating mode

Through connecting the power supply to BU+BN (1+2), the actuator moves to position 1 while the pre-tensioned spring is wound up the same time. If the power supply is interrupted the actuator is moving back to position 0 by the spring power. The actuator is still maintaining the minimum torque at the damper spindle.

The actuator is overload-proof and requires no end switches. It automatically stops when the end stop is reached.

Operating mode TA

The external thermal tripping device TA with the duct mountable fuse TF1 and external duct fuse TF2 is cutting the power supply as soon as either TF1 or TF2 is exceeding temperatures of 72°C. The tripping device TA is equipped with a test switch and a LED. Both are only working if the actuator is powered correctly.

The LED is green if:
 -the actuator is powered on; ready for operation
 -TF1 and TF2 have not tripped

The LED is red if:
 -During the test switch is pressed; test mode is starting (spring return)

Signaling

The two integrated auxiliary switches are activated at the fixed switching positions (< 5° and > 80°). The damper position can be checked by the mechanical pointer.

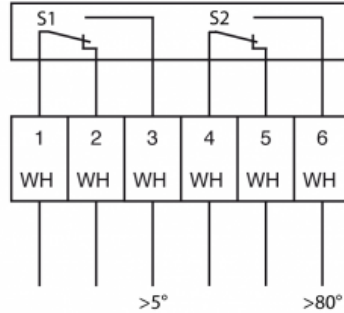
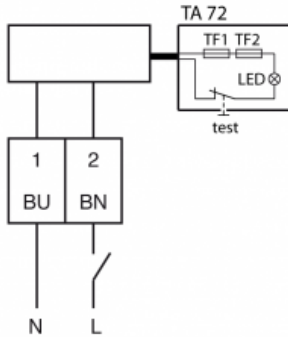
Direct mounting

Simple direct mounting on the damper spindle with formlock, supplied with anchoring supports to prevent the actuator from rotating.

Manual override

The actuator can be operated only manually while the power supply is off. The supplied lever is to open and lock the damper position. The lock stays until the power supply is put on.

Connection / Safety remarks



Safety remarks

- Attention mains voltage
- The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.
- The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- The actuator is adapted and mounted to the fire and smoke damper by the damper manufacturer. For this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then bears full responsibility for the proper functioning of the damper.

Technical drawing

