

Technical data sheet

US-360S-024-135-S2/RE25

For F&S damper according to UL555

Description

Spring- return fire Actuator including external tripping device for fire and smoke dampers of 90° angle of rotation to be used in HVAC installations.

- **Torque Motor** 15 Nm [135 in-lb]
- **Torque Spring** 15 Nm [135 in-lb]
- **Nominal Voltage** 24 VAC/DC
- **Control** 2 Point
- **Auxiliary switch** 2x fixed, not adjustable
- **Damper shaft adaption** Universal round < 25mm [0,98in] (RE25)


Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	19...29 VAC/DC
	Power consumption motor (motion)	8,5 W
	Power consumption standby (end position)	2,0 W
	Wire sizing	13,5 VA
	Control	2 Point
	Position feedback	-
	Auxiliary switch	2 x SPDT (AgAu)
	Contact load	1 mA...5 (2,5) A, 5 VDC...250 VDC
	Switching point	5° / 80° @ -5°...+90°
Connection	Connection Motor	Cable 1000 mm [3,3 ft], 2 x AWG 18
	Connection Auxiliary switch	Cable 1000 mm [3,3 ft], 6 x AWG 18
	Connection GUAC	-
Functional data	Torque Motor	>15 Nm [135 in-lb]
	Torque Spring	>15 Nm [135 in-lb]
	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	<10 s / 90°
	Sound power level Motor	<45 dB(A)
	Sound power level Spring	<65 dB(A)
	Damper coupling	Universal round < 25mm [0,98in] (RE25)
	Position indication	mechanical with pointer
	Service life	>60.000 cycles (-5°...+90°...-5°)
Safety	Protection class	III (class 2)

Technical data

Safety	Degree of protection	IP54 [NEMA 2]
	UL	-
	Mode of operation	Typ 1.AA B (EN60730-2-14)
	Rated impulse voltage	0,8 kV (EN60730-1)
	Control pollution degree	2 (UL 840)
	Ambient temperature normal operation	-30°C...+50°C [-22°F...+122°F]
	Storage temperature	-30°C...+50°C [-22°F...+122°F]
	Ambient humidity	5...95% r.F., not condensing (EN 60730-1)
	Maintenance	maintenance-free
Dimensions/ Weight	Dimensions	193 x 96 x 70 mm [7.60 x 3.77 x 2.76 in]
	Weight	ca. 1.800g [3.97 lb]

Operating mode / Properties

Operating mode

Through connecting the power supply to blk+red, 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 damper actuators running time is adapted to come closer to the needs of UL555/UL555S requirements.

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

Direct mounting

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

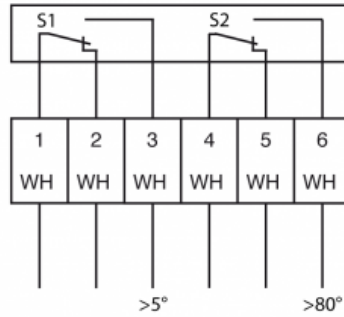
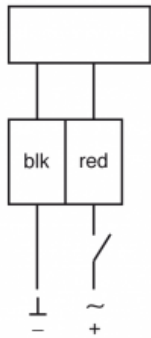
Signaling

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.

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

- Connect via safety isolation transformer
- The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
- In 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.

Technical drawing

