

Technical data sheet

FSLF24-S-FC US

Fail-Safe actuator used in typical Fire and Smoke damper applications

- Torque motor 30 in-lb [3.5 Nm]
- Nominal voltage AC/DC 24 V
- Control On/Off
- @ 350°F [177°C] for 30 min
- 15 s, <15 s Motor/Fail-safe
- 2 x SPST







Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	15 VA
	Power consumption in rest position	2.5 W, 3.5 VA, End stop 25 VA, 1 A slow blow fuse *
	Transformer sizing	24 VA
	Auxiliary switch	2 x SPST, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one set at 85°
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	18 GA, 1 m, 2 color coded wires
	Overload Protection	electronic throughout 095° rotation
	Electrical Protection	actuators are double insulated
Functional data	Torque motor	30 in-lb [3.5 Nm] @ 350°F [177°C] for 30 min
	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Angle of rotation	95°
	Running Time (Motor)	15 s / 90°
	Running time motor note	at rated voltage and torque 32122°F [050°C]
	Running time fail-safe	<15 s
	Noise level, motor	45 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP30
	Degree of protection NEMA/UL	NEMA 1
	Enclosure	UL Enclosure Type 1
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02
		NYC Department of Buildings MEA 197-07-M California State Fire Marshal Listing 3210-1593:102
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	32122°F [050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	4.2 lb [1.9 kg]



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Materials	Housing material	galvanized steel	
Footnotes	† UL File XAPX.E108966		
Safety notes			
Ĺ	 The FSLF draws higher personance of the stop. Given the technology increased to avoid nuisar 0.25 A slow blow should be SAFETY NOTES Wiring and installation me The actuator contains no Cables are not plenum rational statement of the source o	require individual fusing of FSLF actuators. eak current when driving against its end stop or any other by of fuses & breakers, this requires the value of fuse or brace opening or tripping. A 1 A slow blow should be used fo be used for AC 120 V. A 0.125 A slow blow should be used f ust comply with all local electrical and mechanical codes. components which the user can replace or repair. ted and require flex conduit. : Screw a conduit fitting into the actuator's metal bushing. th suitable flexible conduit. Properly terminate the conduit models): Mount the flexible conduit into the actuator's metal screw with a torque of 10 in-lb [1.2 Nm]. Jacket the actuat ple conduit. Properly terminate the conduit in a suitable jun	eaker to be r AC 24 V. A or 230 V. Jacket the t in a cal bushing or's input
Product features			
Application		irn actuators are designed for the operation of UL555 and in ventilation and air-conditioning systems.	UL555S
Operation	applying power, the actuat	its fail safe position with the damper blade(s) typically closor drives the damper to the open position. The internal spe. If the power supply is interrupted, the spring moves the n.	ring is
Typical specification	All smoke and combination fire and smoke dampers shall be provided with Belimo FSTF, FSLF, FSNF, or FSAF series actuators. All substitutions must be approved before submission of bid. Damper and actuator shall have UL555S Listing for 250°F and/or 350°F. Actuator shall have been tested to UL2043 per requirements of IMC 602.2 and NEC 300.22 (c). Where position indication is required -S models with auxiliary switches shall be provided.		
Accessories			
Electrical accessories	Description	Туре	
	Thermoelectric tripping de Auxiliary switch 2 x SPDT	vice, Duct inside temperature 165°F BAE165 L S2A-F US	
Mechanical accessories	Description	Туре	
	Weather shield 13x8x6" [33 Weather shield 406x213x1	80x203x152 mm] (LxWxH) ZS-100 02 mm [16x8-3/8x4"] (LxWxH) ZS-150	

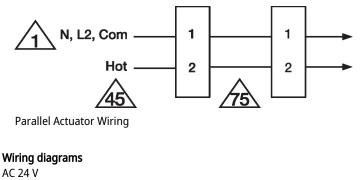
Electrical installation

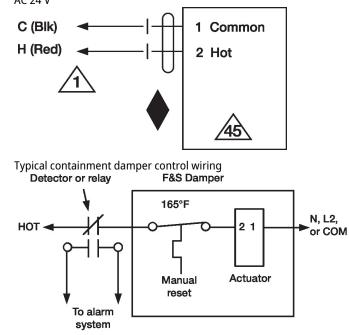
APPLICATION NOTES

Provide overload protection and disconnect as required.
Actuators may be powered in parallel. Power consumption must be observed.
S4 makes to S6 when actuator is powered open.
Auxiliary switches are for end position indication or interlock control.
Double insulated.
Ground present on some models.



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Parallel Actuator Wiring

