

Technical data sheet

FSLF120-S US

On/Off, Spring Return, 350°F [177°C] for half an hour, 15 s Cycle Time

- Torque 3.5 Nm / from 32...350°F [0...177°C]
- Nominal voltage AC 120 V
- Control On/Off







Technical data

Electrical data	Nominal voltage	AC 120 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 96132 V
	Power consumption in operation	18 VA
	Power consumption in rest position	4 W, 5.5 VA (50 Hz 8 VA), End stop 27 VA, 0.25 A slow blow fuse *
	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	(2) 18 GA appliance cables, 1 m, with 1/2" conduit connectors
	Overload Protection	electronic throughout 095° rotation
	Electrical Protection	grounded enclosure, 120 V
Functional data	Torque motor	30 in-lb [3.5 Nm] from 32350°F [0177°C]
	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Angle of rotation	Max. 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	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	4.4 lb [2.0 kg]



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Materials	Housing material	galvanized steel	
Footnotes	† UL File XAPX.E108966		
Safety notes			
Product features	 The FSLF draws higher persistop. Given the technology increased to avoid nuisant 0.25 A slow blow should b SAFETY NOTES Wiring and installation mu The actuator contains no of Cables are not plenum rat 1/2" Threaded Connector: actuator's input wiring with suitable junction box. 3/8" Flex Connector (-FC m by means of the provided 	equire individual fusing of FSLF actuators. ak current when driving against its end stop or any other ty y of fuses & breakers, this requires the value of fuse or brea- te opening or tripping. A 1 A slow blow should be used for e used for AC 120 V. A 0.125 A slow blow should be used for est comply with all local electrical and mechanical codes. components which the user can replace or repair. ed and require flex conduit. Screw a conduit fitting into the actuator's metal bushing. J h suitable flexible conduit. Properly terminate the conduit models): Mount the flexible conduit into the actuator's meta screw with a torque of 10 in-lb [1.2 Nm]. Jacket the actuator e conduit. Properly terminate the conduit in a suitable junc	aker to be AC 24 V. A r 230 V. acket the in a I bushing or's input
Flouutileatures			
Application		n actuators are designed for the operation of UL555 and L n ventilation and air-conditioning systems.	JL555S
Operation	applying power, the actuate	ts fail safe position with the damper blade(s) typically close r drives the damper to the open position. The internal spri If the power supply is interrupted, the spring moves the d	ng 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 dev Auxiliary switch 2 x SPDT	ice, Duct inside temperature 165°F BAE165 US S2A-F US	5
Mechanical accessories	Description	Туре	
	Weather shield 330x203x15 Weather shield 406x213x10	2 mm [13x8x6"] (LxBxH) ZS-100 2 mm [16x8-3/8x4"] (LxWxH) ZS-150	

Electrical installation

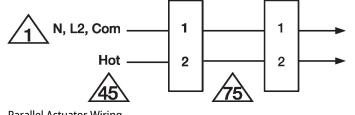
APPLICATION NOTES

 \bigwedge Provide overload protection and disconnect as required.

Actuators may be powered in parallel. Power consumption must be observed. As Actuators may be powered in parallel. Power consumption must be observed. Auxiliary switches are for end position indication or interlock control. Double insulated. Ground present on some models.

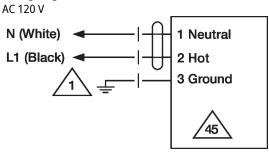


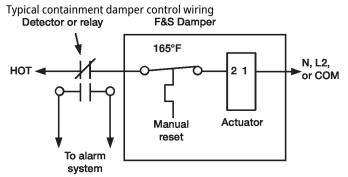
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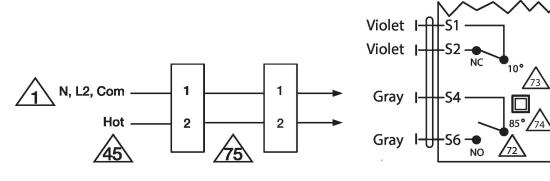
Parallel Actuator Wiring

Wiring diagrams



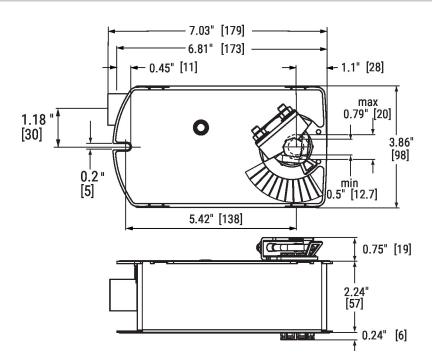


Parallel Actuator Wiring



Auxiliary Switch Wiring





SALES CONTACT



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