

On/Off, Spring Return, AC 120 V, Auxiliary Switch

- Torque 20 Nm /
- Nominal voltage AC 120 V
- Control On/Off

Technical data sheet

FSAF120A-S







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	30 VA
	Power consumption in rest position	7.5 W, 12 VA (50 Hz 20 VA), End stop 47 VA, 0.5 A slow blow fuse *
	Auxiliary switch	2 x SPST, 6 A resistive (2.5 A inductive) @ AC 250 V, one set at 5°, one set at 85°
	Switching capacity auxiliary switch	6 A resistive (2.5 A inductive) @ AC 250 V
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" conduit connector
	Overload Protection	electronic throughout 095° rotation
	Electrical Protection	grounded enclosure, 120 V
Functional data	Torque motor	180 in-lb [20 Nm]
	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)	25 s / 90°
	Running time fail-safe	<15 s
	Noise level, motor	70 dB(A)
	Noise level, fail-safe	73 dB(A)
	Position indication	Mechanical
Safety data	Degree of protection IEC/EN	IP40
	Degree of protection NEMA/UL	NEMA 1
	Enclosure	UL Enclosure Type 1
	Agency Listing	cULus listed to UL60730-1A:02; UL 60730-2-14:02 and CAN/CSA-E60730-1:02
	Quality Standard	ISO 9001, RoHS (EU-Directive 2011/65/EU)
	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	7.2 lb [3.2 kg]
Materials	Housing material	galvanized steel
	Gears	steel, permanently lubricated



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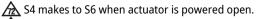
	Footnotes	† UL File XAPX.E108966	
Safety notes			
	Ţ	 * Neither UL nor Belimo require local over-current protection. The FS higher peak current when driving against any type of stop. After 10 s the lower holding level. If used, this requires the value of a local fuse increased to avoid nuisance opening or tripping. A 2 A slow blow shot 0.5 A slow blow should be used for AC 120 V. A 0.25 A slow blow shot and a 0.3 A slow blow for AC 208 V. 	seconds current drops to e or breaker to be ould be used for AC 24 V. A
Product features			
	Application	The FS series of spring-return actuators are designed for the operation of UL555 and UL555S listed fire/smoke dampers in ventilation and air-conditioning systems.	
	Operation	The actuator is mounted in its fail safe position with the damper blade(s) typically closed. Upon applying power, the actuator drives the damper to the open position. The internal spring is tensioned at the same time. If the power supply is interrupted, the spring moves the damper back to its fail-safe position.	
	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 device, Duct inside temperature 165°F	BAE165 US

	Thermoelectric tripping device, Duct inside temperature 165°F Auxiliary switch 2 x SPDT	BAE165 US S2A-F US
Mechanical accessories	Description	Туре
	Anti-rotation bracket, for AF / NF	AF-P
	End stop indicator	IND-AFB
	Shaft clamp reversible, for central mounting, for damper shafts Ø12.7 /	K7-2
	19.0 / 25.4 mm	
	Ball joint suitable for damper crank arm KH8, Multipack 10 pcs.	KG8
	Actuator arm, for 3/4" shafts, clamping range Ø1022 mm, Slot width 8.2 mm	KH-AFB
	Push rod for KG6 & KG8 ball joints (36" L, 5/16" diameter).	SH8
	Wrench 0.32 in and 0.39 in [8 mm and 10 mm]	TOOL-06
	Mounting bracket for AF	ZG-100
	Mounting bracket	ZG-101
	Dual actuator mounting bracket.	ZG-102
	Weather shield 330x203x152 mm [13x8x6"] (LxBxH)	ZS-100
	Weather shield 406x213x102 mm [16x8-3/8x4"] (LxWxH)	ZS-150
	Explosion proof housing 406x254x164 mm [16x10x6.435"] (LxBxH), UL and CSA, Class I, Zone 1&2, Groups B, C, D, (NEMA 7), Class III, Hazardous (classified) Locations	ZS-260
	Weather shield 438x222x140 mm [17-1/4x8-3/4x5-1/2"] (LxBxH), NEMA 4X, with mounting brackets	ZS-300
		ZG-AFA108
		ZG-AFA
	Damper clip for damper blade, 3.5" width.	ZG-DC1
	Damper clip for damper blade, 6" width.	ZG-DC2
Electrical installation		

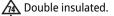
A Provide overload protection and disconnect as required.



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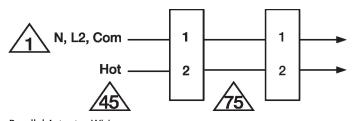


Auxiliary switches are for end position indication or interlock control.



🛦 Ground present on some models.

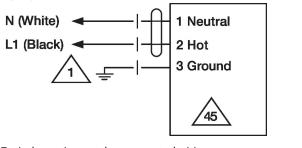
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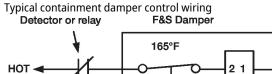


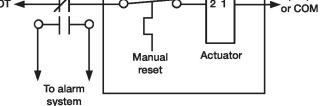
Parallel Actuator Wiring

Wiring diagrams

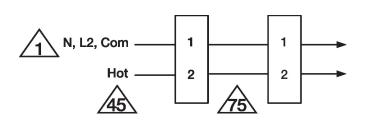


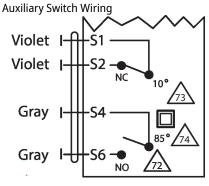




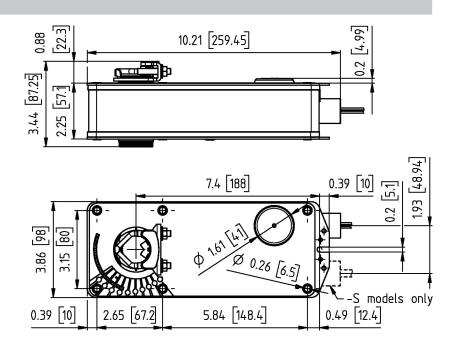


Parallel Actuator Wiring









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