

On/Off, Spring Return Fail-Safe, AC 230 V

- Torque 20 Nm /
- Nominal voltage AC 230 V
- Control On/Off



FSAF230A







Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 207253 V
	Power consumption in operation	37 VA
	Power consumption in rest position	10 W, 19 VA (60 Hz 12 VA), End stop 54 VA, 0.25 A slow blow fuse *
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" conduit connector
	Overload Protection	electronic throughout 095° rotation
	Electrical Protection	grounded enclosure, 230 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	6.8 lb [3.0 kg]
Materials	Housing material	galvanized steel
	Gears	steel, permanently lubricated

Footnotes † UL File XAPX.E108966





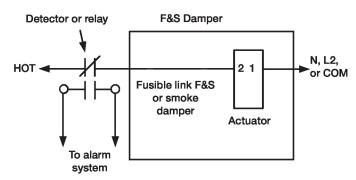
• * Neither UL nor Belimo require local over-current protection. The FSAF_A actuators draw higher peak current when driving against any type of stop. After 10 seconds current drops to the lower holding level. If used, this requires the value of a local fuse or breaker to be increased to avoid nuisance opening or tripping. A 2 A slow blow should be used for AC 24 V. A 0.5 A slow blow should be used for AC 120 V. A 0.25 A slow blow should be used for AC 230 V and a 0.3 A slow blow for AC 208 V.

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 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 / 19.0 / 25.4 mm	K7-2	
	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	ZS-260	
	and CSA, Class I, Zone 1&2, Groups B, C, D, (NEMA 7), Class III, Hazardous		
	(classified) Locations		
	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			

Actuators may be powered in parallel. Power consumption must be observed.

Ground present on some models.

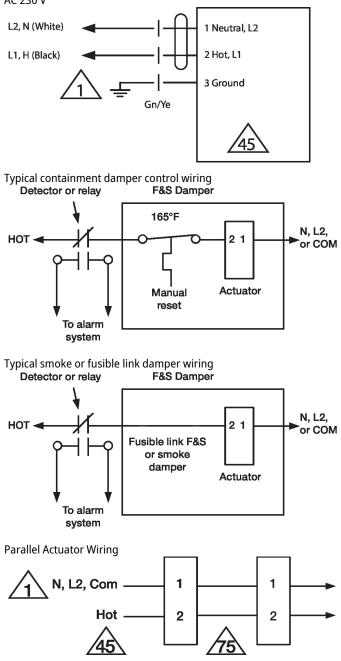




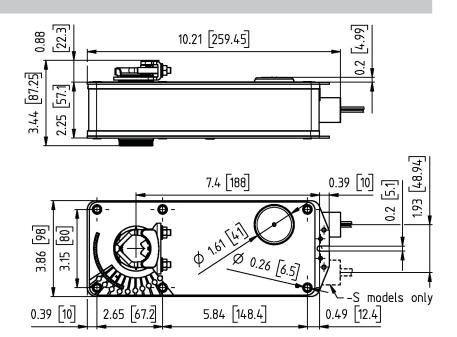
Typical smoke or fusible link damper wiring



AC 230 V







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