5-year warranty

LISTED 94 D5 TEMP. IND. & REG. EQUIP. c UL us

Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 207...253 V
	Power consumption in operation	17 VA
	Power consumption in rest position	4 W, 8 VA (60 Hz 5.5 VA), End stop 27 VA, 0.125 A slow blow fuse *
	Electrical Connection	18 GA, 1 m, 3 colour coded wires
	Overload Protection	electronic throughout 0...95° rotation
	Electrical Protection	grounded enclosure, 230 V
Functional data	Torque motor	3.5 Nm @ 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 0...50°C
	Running time fail-safe	<15 s
	Sound power level, motor	45 dB(A)
	Sound power 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, Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC. 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	0...50°C [32...122°F]
	Storage temperature	-40...80°C [-40...176°F]
	Servicing	maintenance-free

Technical data

Weight	Weight	3.1 kg
Materials	Housing material	Galvanized steel

Safety notes

- * Neither UL nor Belimo require individual fusing of FSLF actuators.
- The FSLF draws higher peak current when driving against its end stop or any other type of stop. Given the technology of fuses & breakers, this requires the value of fuse or breaker to be increased to avoid nuisance opening or tripping. A 1 A slow blow should be used for AC 24 V. A 0.25 A slow blow should be used for AC 120 V. A 0.125 A slow blow should be used for 230 V.
- SAFETY NOTES
- Wiring and installation must comply with all local electrical and mechanical codes.
- The actuator contains no components which the user can replace or repair.
- Cables are not plenum rated and require flex conduit.
- 1/2" Threaded Connector: Screw a conduit fitting into the actuator's metal bushing. Jacket the actuator's input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.
- 3/8" Flex Connector (-FC models): Mount the flexible conduit into the actuator's metal bushing by means of the provided screw with a torque of 1.2 Nm. Jacket the actuator's input wiring with suitable flexible conduit. Properly terminate the conduit in a suitable junction box.

Accessories

Electrical accessories	Description	Type
	Thermoelectric tripping device, Duct inside temperature 165°F	BAE165 US
	Auxiliary switch 2x SPDT	S2A-F US

Mechanical accessories	Description	Type
	Weather shield 330x203x152 mm [13x8x6"] (LxWxH)	ZS-100
	Weather shield 406x213x102 mm [16x8-3/8x4"] (LxWxH)	ZS-150

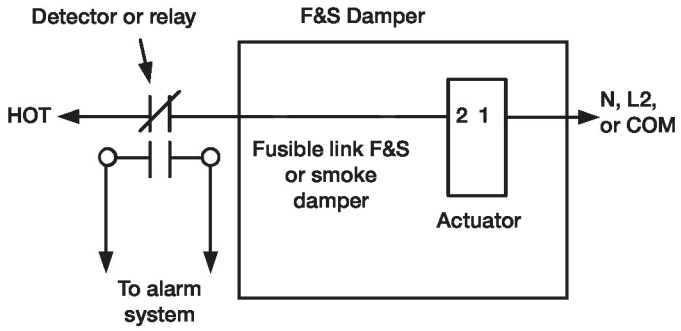
Electrical installation

APPLICATION NOTES

1 Provide overload protection and disconnect as required.

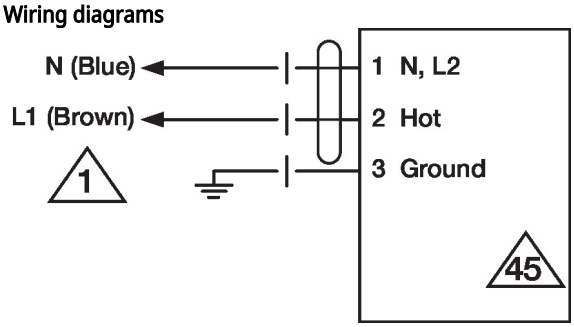
45 Actuators may be powered in parallel. Power consumption must be observed.

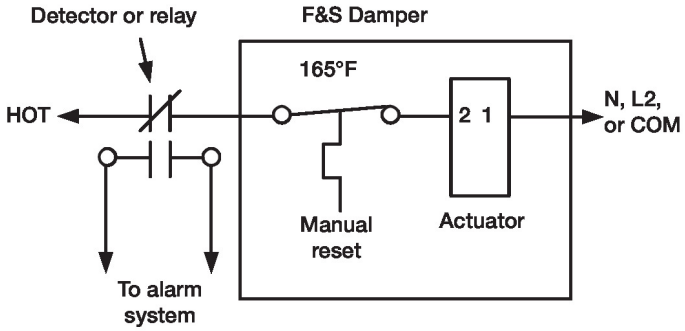
75 Ground present on some models.

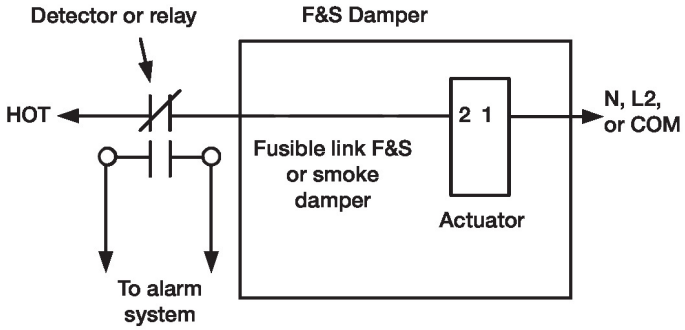


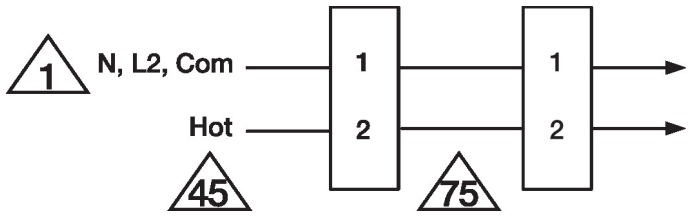
Electrical installation

Wiring diagrams

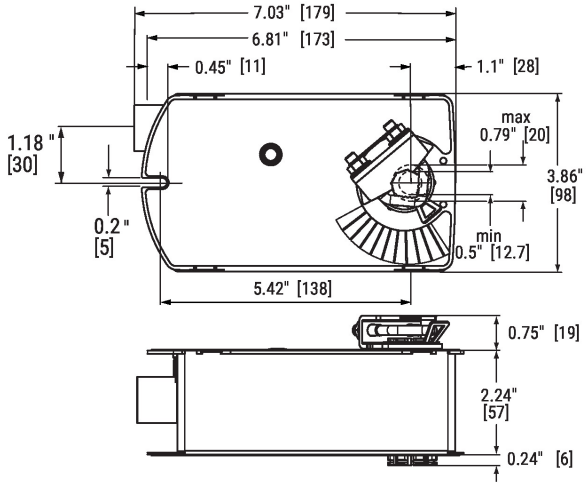








Dimensions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6.81" [173]
0.45" [11]
1.1" [28]
max
0.79" [20]
1.18 "
[30]
3.86"
[98]
0.2 "
[5]
min
0.5" [12.7]
5.42" [138]
0.75" [19]
2.24"
[57]
0.24" [6]