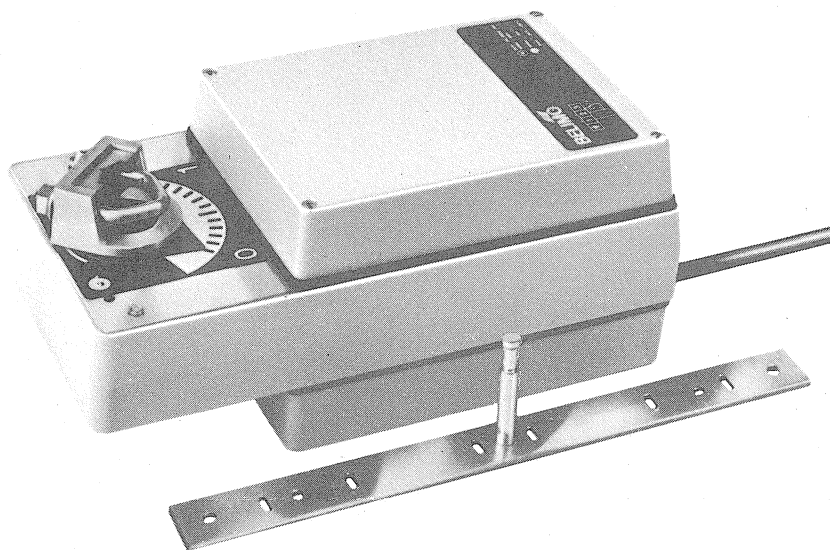
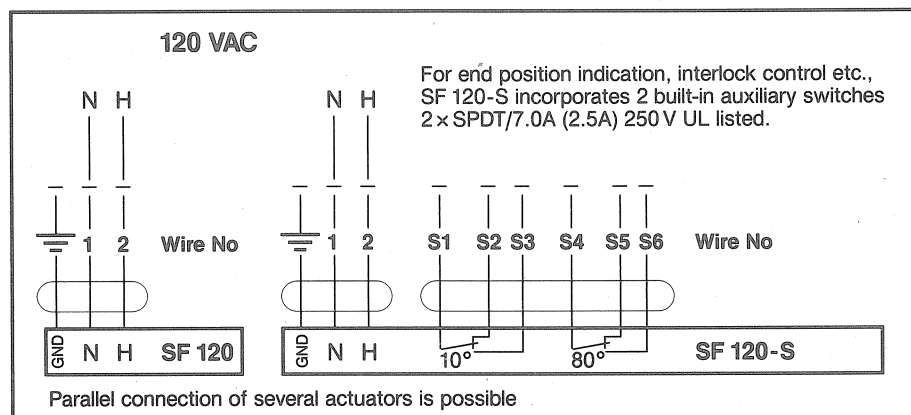


On-off, spring return safety, 120 V

Torque min. 133 in-lb, for control of damper surface up to 35 ft². UL listed.

Wiring diagram**Application**

For on-off damper operation. This actuator performs a reliable safety function offering not only freeze protection on outside air dampers, but also hygienic protection on airtight dampers. The actuator can be mounted by means of a special clamp, directly onto the damper shaft. As an alternative, the unit can also be mounted inside the damper, under, or in, the duct with the use of the ZG-100 series universal mounting bracket. For out-door mounting, use weather shield ZS-100.

Operation

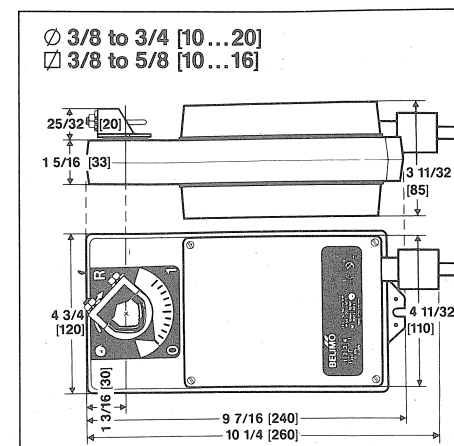
When power is applied, the actuator moves to its normal working position, at the same time tensioning the spring return safety mechanism. When the power is disengaged, the spring return function returns the actuator to its safety position. On the SF 120-S version, two built-in end switches are provided for safety interfacing or signaling. These are fixed to operate at 0° and 80°.

Accessories

ZDB	Angle of rotation limiter
ZG-FM2	Damper linkage kit
ZG-100	Universal mounting bracket
ZG-101	Universal mounting bracket
ZG-102	Multiple actuator mounting bracket
ZS-100	Weather shield

Dimensions

All ratings in brackets are metric



Technical Data		SF 120 / SF 120-S
Power supply		120 VAC ± 10 % 50/60 Hz
Power consumption		Running approx. 6W Holding approx. 4W
Transformer sizing		8 VA
Electrical connections		3 ft, 18 GA cable, 1/2" conduit connector
Angle of rotation		mechanically limited to 90°
Torque	- at rated voltage - with spring return	min. 133 in-lb [15 Nm] min. 133 in-lb [15 Nm]
Direction of rotation		can be selected by L/R hand mounting
Position indication		0...1 (0 = safety position)
Running time	- actuator operation - spring return	approx. 110...140 sec } approx. 10...19 sec } 0 to 133 in-lb [0 to 15m]
Humidity		5 to 80 % RH noncondensing
Ambient temperature		-22°F to +122°F [-30°C to +50°C]
Storage temperature		-40°F to +176°F [-40°C to +80°C]
Noise level	- motor - spring return	max. 45 db (A) > 45 db (A)
Servicing		maintenance free
Lifespan		60,000 open-close operations
Weight		6.2 lb [2.8 kg]

