

EDELWEISS Actuators

Electrical Explosion Proof actuators

Catalogue 2012

Series EXBF – on/off

- ✚ *Spring Return torque: 12 Nm*
- ✚ *Motor torque: 18 Nm*
- ✚ *Spring running time $\pm$ 16 sec*
- ✚ *Control ON/OFF*
- ✚ *Power supply 230V ac, 24V ac, 24V dc*
- ✚ *In according to EN 60079-0, EN60079-1, EN 60079-31*
- ✚ *Zone 1, 2, 21, 22*

Applications

The EXBF spring return actuators are intended for the operation of fire and smoke dampers in ventilation and air-conditioning systems.

Features

The actuator moves the damper to its working position while tensioning the spring return until it is powered. If the power supply is interrupted the spring moves the damper back to its safe position. The actuator is overload protected. The actuator can be mounted directly on the damper shaft if square, 12 x 12 mm or 10 x 10 mm (adaptor included); Several mounting brackets are available for applications where the actuator cannot be directly coupled to the damper shaft. The cable glands are fit for cable diameters from 8 to 10,5 mm.

Products range

ITEM	Belimo type	Auxiliary Switch
EXBF 0 A 001 2 L 000	BF230	2 x SPDT
EXBF 0 A 001 2 R 000		
EXBF 0 A 001 2 U 000		
EXBF 0 B 001 2 L 000	BF24	
EXBF 0 B 001 2 R 000		
EXBF 0 B 001 2 U 000		

Options available on request:

Different angle of rotation
Different wiring length



0948

NEMKO 03 ATEX 1242X



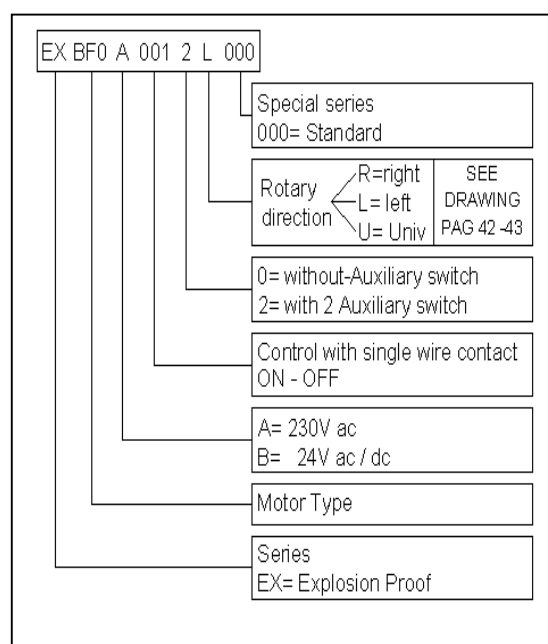
II 2G Ex d IIC T6 Gb



II 2D Ex tb IIIC T67 °C

For zone 1, 2, 21, 22

The product may be differ from the illustration



EDELWEISS Actuators

Electrical Explosion Proof actuators

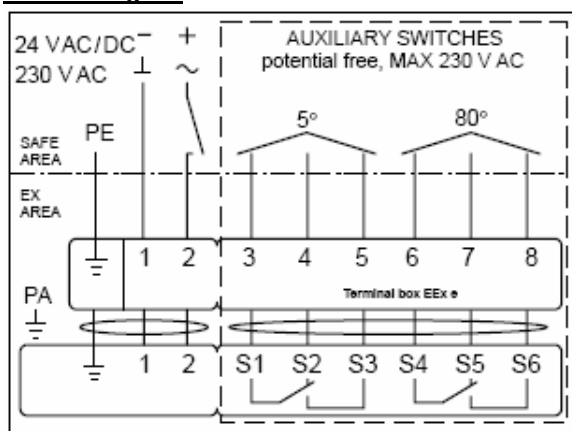
Catalogue 2012 Series EXBF – on/off

Technical data		
Torque	- motor	18 Nm
	- Spring	12 Nm
Rotation angle		95°
Running time		140 Sec
Running time spring return		± 16 sec
Ambient temperature		-20°C + 50°C
Degree of protection		IP66
Housing material		Aluminium baked varnish
Maintenance		None
Fastening		Terminal block in Ex e box
Wiring length		1 m. cable
Weight		8.5 kg
Auxiliary micro switches		6A (3A) max 250 V ac Switching point at 5° e 80°
EMC		CE according to 2004/108/EC
Low voltage directive		CE according to 2006/95/EEC
Halogen – Free wiring		According to IEC 60332-1/3 and According to IEC 60754-1/2

Technical data	
EXBF A Version	
Power supply	230 V AC ±14% 50/60 Hz
Power consumption: running	8,0 W
	At rest 3,0 W
Sizing	12,5 VA

EXBF B Version	
Power supply	24 V AC ± 20% 50/60 Hz
	24 V DC -10% + 20%
Power consumption: running	7,0 W
	At rest 2,0 W
Sizing	10 VA

Electric diagram



NOTE:

- Read the note about the use and torque requirements of the damper manufacturer
- All electrical wirings must be according to local standards.
- Electrical connections by power off only.
- Ex e junction box must not be opened under any circumstances when the power is on.
- Actuator cable must be installed in a fixed position and protected against damage.
- Avoid excessive vibrations.
- Before switching-on, check that no other equipment is damaged and make sure that supply voltage corresponds with the Actuator's specification.
- Before switching-off check for possible effects on other equipments.
- The Actuator cannot and is not to be opened to guarantee explosion proof and warranty.
- For any problem contact Edelweiss Actuators. The equipment shall be marked "X" since flameproof joint is other than the relevant minimum or maximum according to CEI EN 60079-1. Information on dimension of flameproof joints available at Edelweiss Actuators.srl

Typical application

