

Technical data sheet

BF230

Spring-return actuator for fire and smoke dampers 90° in ventilation and air-conditioning systems.

- Nominal torque 18 Nm / 12 Nm
- Nominal voltage AC 230 V
- Control open-close
- Damper rotation form fit 12 mm (10 mm with enclosed adapter)



Technical data

| Electrical data | Nominal voltage | AC 230 V |
|-----------------|--|---|
| Liectrical uata | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 198 V 264 V |
| | Power consumption in operation | 8.5 W |
| | Power consumption at rest | 3 W |
| | Power consumption for wire sizing | 11 VA |
| | Power consumption for wire sizing note | Imax 0.5 A @ 5 ms |
| | Auxiliary switch | 2 x SPDT |
| | Switching capacity auxiliary switch | Contact gold-plated silver: 1 mA 3 (0.5) A, DC 5 V AC 250 V (II Totally insulated) |
| | Switching points auxiliary switch | 5° / 80° |
| | Connection supply | Cable 1 m, 2 x 0.75 mm ² (halogen-free) |
| | Connection auxiliary switch | Cable 1 m, 6 x 0.75 mm ² (halogen-free) |
| | | |
| Functional data | Torque motor | Min. 18 Nm |
| | Torque spring-return | Min. 12 Nm |
| | Direction of rotation motor | Can be selected by mounting L / R |
| | Angle of rotation | Max. 95° (incl. 5° initial spring tension) |
| | Running time motor | <120 s |
| | Running time spring-return | ~16 s (tamb = 20°C) |
| | Sound power level motor max. | 45 dB (A) |
| | Sound power level spring-return max. | 63 dB (A) |
| | Damper rotation | Form fit 12 mm (10 mm with enclosed adapter) |
| | Position indication | Mechanically, with pointer |
| | Service life | Min. 60,000 safety positions |
| Safety | Protection class IEC/EN | II Totally insulated |
| | Degree of protection IEC/EN | IP54 in all mounting positions |
| | EMC | CE according to 2004/108/EC |
| | Low-voltage directive | CE according to 2006/95/EC |
| | Certification IEC/EN | Certified according to IEC/EN 60730-1 and IEC/EN 60730-2-14 |
| | Mode of operation | Туре 1.АА.В |
| | Rated impulse voltage supply / control | 4 kV |
| | Control pollution degree | 3 |
| | Ambient temperature normal duty | -30°C 50°C |
| | Ambient temperature safety duty | The safety position will be attained up to max. 75°C when triggered by a thermal fuse |
| | Non-operating temperature | -40°C 80°C |
| | Ambient humidity | 95% r.h., non-condensing |
| | Maintenance | Maintenance-free |
| Weight | Weight approx. | 3.1 kg |

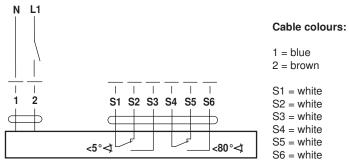


| Safety notes | | |
|---|---|---|
| | The actuator is not allowed to be used outside the specified field especially in aircraft or in any other airborne means of transport The actuator is adapted and mounted to the fire and smoke dam manufacturer. For this reason, the actuator is only supplied dire manufacturers. The manufacturer then bears full responsibility functioning of the damper. The device may only be opened at the manufacturer's site. It do parts that can be replaced or repaired by the user. The device contains electrical and electronic components and is disposed of as household refuse. All locally valid regulations an be observed. | t. uper by the damper ct to safety damper for the proper pes not contain any s not allowed to be |
| Product features | | |
| Mode of operation Signalling Manual operation | tensioning the return spring. The damper is turned back to the safety position by spring energy when the supply voltage is interrupted. Two microswitches with fixed settings are installed in the actuator for indicating the damper end positions. The position of the damper blade can be read off on a mechanical position indicator. | |
| | position. It can be unlocked manually or automatically by applying | |
| Accessories | | |
| Electrical accessories Mechanical accessories | Description Auxiliary switch, 2 x SPDT, 6 A (2.5 A), AC 250 V Adapter with clamp for rotary axes up to 20 mm for BF and BLF Adapter with DM18 rotary axis, L = 33 mm for BF and BLF Adapter 12/8 mm for BF and BLF Adapter 12/11 mm for BF and BLF Bracket for SN2-C7 auxiliary switch for BF and BR | Data sheet name SN2-C7 ZK-BF ZA18-BF ZA8-BF ZA8-BF ZA11-BF ZSN-BF |
| Electrical installation | | |

| Notes | Caution: Power supply voltage! Parallel connection of other actuators possible. Note the performance data. |
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Wiring diagrams

AC 230 V, open-close





Dimensions [mm]

Dimensional drawings

