Actuator for smoke control dampers 90°

- Torque motor 40 Nm
- Nominal voltage AC 230 V
- Control Open/close
- Mechanical interface Form fit 12x12 mm, continuous hollow shaft



Technical data

| ectrical | |
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| Nominal voltage | AC 230 V |
|--|---|
| Nominal voltage frequency | 50/60 Hz |
| Nominal voltage range | AC 198264 V |
| Switching thresholds min. ON voltage | AC 198 V |
| Switching thresholds max. OFF voltage | AC 100 V |
| Power consumption in operation | 8 W |
| Power consumption in rest position | 0.5 W |
| Power consumption for wire sizing | 15 VA |
| Power consumption for wire sizing note | Imax 7.9 A @ 5 ms |
| Auxiliary switch | 2 x SPDT |
| Switching capacity auxiliary switch | 1 mA6 A (3 A inductive), DC 5 VAC 250 V |
| Switching points auxiliary switch | 3° / 87° |
| Tolerance | ±2° |
| Connection supply / control | Cable 1 m, 3 x 0.75 mm², halogen-free |
| Connection auxiliary switch | Cable 1 m, 6 x 0.75 mm², halogen-free |
| Torque motor | 40 Nm |
| | |

Functional data

| Torque motor | 40 Nm |
|---|---|
| Inhibiting torque dynamic | 40 Nm |
| Inhibiting torque static (voltage-free) | 50 Nm |
| Direction of motion motor | selectable by mounting L/R |
| Manual override | with hand crank |
| Angle of rotation | Max. 100° |
| Angle of rotation note | Including 5° mechanical overrun at both sides |
| Running time motor | <60 s / 90° |
| Sound power level, motor | 62 dB(A) |
| Mechanical interface | Form fit 12x12 mm, continuous hollow shaft |
| Position indication | Mechanically, with pointer |
| Service life | Min. 10'000 cycles |

Safety data

| II reinforced insulation | |
|--------------------------------------|--|
| II reinforced insulation | |
| IP54 | |
| CE according to 2014/30/EU | |
| CE according to 2014/35/EU | |
| IEC/EN 60730-1 and IEC/EN 60730-2-14 | |
| Type 1.B | |
| 4 kV | |
| 2.5 kV | |
| 3 | |
| -3050°C | |
| -4080°C | |
| | |



| Technical data sheet | BE230-12 | |
|----------------------|----------|--|
| | | |

| Ambient humidity | Max. 95% r.H., non-condensing |
|------------------|-------------------------------|
| Servicing | maintenance-free |
| Weight | 2.8 kg |
| VVCIQIIL | 2.0 Kg |

Weight

Safety notes



- The device must not be used outside the specified field of application, especially not in aircraft or in any
 other airborne means of transport.
- · Caution: Power supply voltage!
- The actuator is adapted to and installed on the smoke control damper by the damper manufacturer. For
 this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then
 bears full responsibility for the proper functioning of the damper.
- The two switches integrated in the actuator are to be operated either on power supply voltage or at safety extra-low voltage. The combination power supply voltage/safety extra-low voltage is not permitted.
- Because of the fact that very high torques are applied to the damper shaft, the use of St50 (as a minimum) is recommended.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Mode of operation

2-wire open/close control. The actuator is overload-proof and can thus remain energised even at the end stops.

Signalling

Two microswitches with fixed settings are installed in the actuator for indicating the damper end positions. It should be noted with this application however that the contacts can no longer be used in the milliampere range after larger currents have been applied to them, even if this has taken place only once. The position of the damper blade can be read off on a mechanical position indication.

Manual operation

The hand crank included in the shipment can be used for manual operation of the actuator.

Standards / Regulations

The design of the actuator is based on the specific requirements from the European standards:

- EN 12101-8: Smoke and heat control systems Part 8: Smoke control dampers
- EN 1366-10: Fire resistance tests for service installations Part 10: Smoke control dampers
- EN 13501-4: Fire classification of construction products and building elements Part 4: Classification using data from fire resistance tests on components of smoke control systems

Delivery notes

Incl. Hand crank, Pointer, Protective bag

Accessories

| Electrical accessories | Description | Туре |
|------------------------|---|------------|
| | Communication and power supply unit for smoke control dampers actuators 24 V with connector | BKNE230-24 |
| Mechanical accessories | Description | Туре |
| | Hand crank 40 mm for BLF, BF, BLE, BE | ZK1-B |
| | Hand crank 70 mm for BLF, BF, BLE, BE | ZK2-B |
| | Protective bag with wire, 100 pcs. | ZSD-B.1 |
| | Pointer 12x12 mm for BLF, BF, BLE | ZZ12-B |

Electrical installation

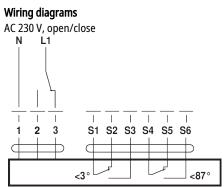


Caution: Power supply voltage!

Parallel connection of other actuators possible. Observe the performance data and the switching thresholds.

Combination of power supply voltage and safety extra-low voltage not permitted at the both auxiliary switches.





Dimensions

Dimensional drawings

