



Actuator, form XB

Part no. **LS-XB-ZB**  
 Catalog No. **106872**  
 Alternate Catalog No. **LS-XB-ZB**

### Delivery program

|                      |  |  |   |
|----------------------|--|--|---|
| Basic function       |  |  | actuators   |
| Part group reference |  |  | LS(4)...ZB  |
| Function             |  |  | Flat actuator   |
| Description          |  |  | With the actuator inserted, the N/O contact is open and the NC contact is closed. |
| For use with         |  |  | LS...ZB   |

### Technical data

#### General

|                       |  |                 |  |
|-----------------------|--|-----------------|--|
| Standards             |  |                 | IEC/EN 60947   |
| Climatic proofing     |  |                 | Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30 |
| Mounting position     |  |                 | As required  |
| Terminal capacities   |  | mm <sup>2</sup> |  |
| Solid                 |  | mm <sup>2</sup> | 1 x (0.75 - 2.5)<br>2 x (0.75 - 1.5)   |
| Flexible with ferrule |  | mm <sup>2</sup> | 1 x (0.5 - 1.5)<br>2 x (0.5 - 1.5)   |
| Repetition accuracy   |  | mm              | 0.02   |

#### Contacts/switching capacity

|  |                  |         |          |
|--|------------------|---------|----------|
| Rated impulse withstand voltage          | U <sub>imp</sub> | V AC    | 6000     |
| Rated insulation voltage                 | U <sub>i</sub>   | V       | 500      |
| Rated operational current                | I <sub>e</sub>   | A       |          |
| AC-15                                    |                  |         |          |
| 24 V                                     | I <sub>e</sub>   | A       | 10       |
| 220 V 230 V 240 V                        | I <sub>e</sub>   | A       | 6        |
| 380 V 400 V 415 V                        | I <sub>e</sub>   | A       | 4        |
| DC-13                                    |                  |         |          |
| 24 V                                     | I <sub>e</sub>   | A       | 3        |
| 110 V                                    | I <sub>e</sub>   | A       | 0.8      |
| 220 V                                    | I <sub>e</sub>   | A       | 0.3      |
| Supply frequency                         |                  | Hz      | max. 400 |
| Short-circuit rating to IEC/EN 60947-5-1 |                  |         |          |
| max. fuse                                |                  | A gG/gL | 6        |

#### Mechanical variables

|  |              |   |        |
|--|--------------|---|--------|
| Mechanical shock resistance (half-sinusoidal shock, 20 ms) |              |   |        |
| Standard-action contact                                    |              | g | 25     |
| Operating frequency  | Operations/h |   | ≤ 1800 |

### Design verification as per IEC/EN 61439

|  |                   |   |   |
|--|-------------------|---|---|
| Technical data for design verification                   |                   |   |   |
| Rated operational current for specified heat dissipation | I <sub>n</sub>    | A | 0 |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub>  | W | 0 |
| Equipment heat dissipation, current-dependent            | P <sub>vid</sub>  | W | 0 |
| Static heat dissipation, non-current-dependent           | P <sub>vs</sub>   | W | 0 |
| Heat dissipation capacity                                | P <sub>diss</sub> | W | 0 |
| IEC/EN 61439 design verification                         |                   |   |   |
| 10.2 Strength of materials and parts                     |                   |   |   |

|  |  |  |
|--|--|--|
| 10.2.2 Corrosion resistance  |  | Meets the product standard's requirements.   |
| 10.2.3.1 Verification of thermal stability of enclosures   |  | Meets the product standard's requirements.   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat   |  | Meets the product standard's requirements.   |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |  | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation   |  | Please enquire   |
| 10.2.5 Lifting   |  | Does not apply, since the entire switchgear needs to be evaluated.                                       |
| 10.2.6 Mechanical impact   |  | Does not apply, since the entire switchgear needs to be evaluated.                                       |
| 10.2.7 Inscriptions  |  | Meets the product standard's requirements.   |
| 10.3 Degree of protection of ASSEMBLIES  |  | Does not apply, since the entire switchgear needs to be evaluated.                                       |
| 10.4 Clearances and creepage distances   |  | Meets the product standard's requirements.   |
| 10.5 Protection against electric shock   |  | Does not apply, since the entire switchgear needs to be evaluated.                                       |
| 10.6 Incorporation of switching devices and components   |  | Does not apply, since the entire switchgear needs to be evaluated.                                       |
| 10.7 Internal electrical circuits and connections  |  | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors   |  | Is the panel builder's responsibility.   |
| 10.9 Insulation properties   |  |  |
| 10.9.2 Power-frequency electric strength   |  | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage   |  | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material   |  | Is the panel builder's responsibility.   |
| 10.10 Temperature rise   |  | Not applicable.  |
| 10.11 Short-circuit rating   |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.           |
| 10.12 Electromagnetic compatibility  |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.           |
| 10.13 Mechanical function  |  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

## Technical data ETIM 7.0

|  |  |                                   |
|--|--|-----------------------------------|
| Sensors (EG000026) / Actuator for position switch with separate actuator (EC001487)  |  |                                   |
| Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Actuator for position switch with separate actuator (ecl@ss10.0.1-27-06-05 [BAA078012]) |  |                                   |
| Model  |  | Actuator with horizontal mounting |