

**Actuator, angled, flexible**



**Part no.**                    **LS-XF-ZBZ**  
**106832**  
**EL Number**                **4356185**  
**(Norway)**

| <b>General specifications</b>             |  |   |
|---|--|---|
| Product name                              |  | Eaton Moeller® series LS Actuator   |
| Part no.                                  |  | LS-XF-ZBZ   |
| EAN                                       |  | 4015081065929   |
| Product Length/Depth                      |  | 55 millimetre   |
| Product height                            |  | 65 millimetre   |
| Product width                             |  | 29 millimetre   |
| Product weight                            |  | 0.038 kilogram  |
| Compliances                               |  | CE Marked   |
| Certifications                            |  | UL 508<br>EN 60947-5<br>CSA Std. C22.2 No. 14<br>IEC 60947-5<br>UL File No.: E29184<br>CSA-C22.2 No. 14<br>IEC/EN 60947<br>CE<br>IEC/EN 60947-5<br>UL<br>CSA Class No.: 3211-03<br>CSA<br>UL Category Control No.: NKCR<br>CSA File No.: 012528 |
| Product Tradename                         |  | LS  |
| Product Type                              |  | Actuator  |
| Product Sub Type                          |  | None  |
| <b>Features &amp; Functions</b>           |  |   |
| Functions                                 |  | For combination with LS-...ZBZ/X basic devices  |
| Material                                  |  | Stainless steel   |
| <b>General information</b>                |  |   |
| Duty factor                               |  | 100 %   |
| Model                                     |  | Actuator with vertical mounting   |
| Operating frequency                       |  | 800 Operations/h  |
| Overvoltage category                      |  | III   |
| Pollution degree                          |  | 3   |
| Rated impulse withstand voltage (Uimp)    |  | 4000 V AC   |
| Repetition accuracy                       |  | 0.02 mm (Contacts/switching capacity)   |
| Type                                      |  | Actuator<br>Angled, flexible actuator   |
| <b>Ambient conditions, mechanical</b>     |  |   |
| Mounting position                         |  | As required   |
| Shock resistance                          |  | 10 g, Standard-action contact, Mechanical, Half-Sinusoidal shock 20 ms  |
| <b>Climatic environmental conditions</b>  |  |   |
| Ambient operating temperature - min       |  | -25 °C  |
| Ambient operating temperature - max       |  | 40 °C   |
| Climatic proofing                         |  | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78  |
| <b>Terminal capacities</b>                |  |   |
| Terminal capacity (flexible with ferrule) |  | 2 x (0.5 - 1.5) mm <sup>2</sup><br>1 x (0.5 - 1.5) mm <sup>2</sup>  |
| Terminal capacity (solid)                 |  | 2 x (0.75 - 1.5) mm <sup>2</sup><br>1 x (0.75 - 2.5) mm <sup>2</sup>  |
| <b>Electrical rating</b>                  |  |   |
| Power consumption                         |  | 8 VA at 120 V AC (electromechanical actuation)  |

|  |  |  |
|--|--|--|
|  |  | 8 W at 24 V DC (electromechanical actuation)   |
| Rated insulation voltage (Ui)  |  | 400 V  |
| Rated operational current (Ie)   |  | 6 A at AC-15, 24 V<br>0.8 A at 110 V<br>3 A at 24 V<br>6 A at AC-15, 220 V 230 V 240 V<br>4 A at AC-15, 380 V 400 V 415 V<br>0.3 A at 220 V                      |
| Short-circuit protection rating  |  | Max. 6 A gG/gL, Fuse, Contacts   |
| Supply frequency   |  | Max. 400 Hz, Contacts  |
| Voltage tolerance  |  | 1.1 x Us, Pick-up and drop-out values<br>0.85 x Us, Pick-up and drop-out values  |
| <b>Actuator</b>  |  |  |
| Mechanical holding force   |  | 1700 N (according to GS-ET-19 (04/2004), XG, XW, XNG)<br>1600 N (according to GS-ET-19 (04/2004), XWA, XFG, XF)<br>1200 N (according to GS-ET-19 (04/2004), XNW) |
| <b>Design verification</b>   |  |  |
| Equipment heat dissipation, current-dependent Pvid                               |  | 0 W  |
| Heat dissipation capacity Pdis   |  | 0 W  |
| Heat dissipation per pole, current-dependent Pvid                                |  | 0 W  |
| Rated operational current for specified heat dissipation (In)                    |  | 0 A  |
| Static heat dissipation, non-current-dependent Pvs                               |  | 0 W  |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.   |
| 10.9.2 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 9.0

|   |  |                                 |
|---|--|---------------------------------|
| Sensors (EG000026) / Actuator for position switch with separate actuator (EC001487)   |  |                                 |
| Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Mechanical switch (sensor technology) / Actuator for position switch (ecl@ss13-27-27-06-12 [AFR469008]) |  |                                 |
| Model   |  | Actuator with vertical mounting |