# DATASHEET - LS-XG-ZBZ

**Actuator, flat**

**Part no.** LS-XG-ZBZ
106833

**EL Number (Norway)** 4356182

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| **General specifications** | |
| Product name | Eaton Moeller® series LS Actuator |
| Part no. | LS-XG-ZBZ |
| EAN | 4015081065936 |
| Product Length/Depth | 44 millimetre |
| Product height | 2 millimetre |
| Product width | 35 millimetre |
| Product weight | 0.011 kilogram |
| Certifications | CSA-C22.2 No. 14<br>CE<br>IEC/EN 60947<br>CSA<br>CSA File No.: 012528<br>CSA Class No.: 3211-03<br>UL File No.: E29184<br>IEC/EN 60947-5<br>UL 508<br>UL<br>UL Category Control No.: NKCR |
| Product Tradename | LS |
| Product Type | Actuator |
| Product Sub Type | None |
| **Features & Functions** | |
| Functions | For combination with LS-...ZBZ/X basic devices |
| Material | Stainless steel |
| **General information** | |
| Duty factor | 100 % |
| Model | Standard actuator |
| 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>Flat actuator |
| **Ambient conditions, mechanical** | |
| Mounting position | As required |
| Shock resistance | 10 g, Standard-action contact, Mechanical, Half-Sinusoidal shock 20 ms |
| **Climatic environmental conditions** | |
| 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 |
| **Terminal capacities** | |
| Terminal capacity (flexible with ferrule) | 2 x (0.5 - 1.5) $mm^2$<br>1 x (0.5 - 1.5) $mm^2$ |
| Terminal capacity (solid) | 2 x (0.75 - 1.5) $mm^2$<br>1 x (0.75 - 2.5) $mm^2$ |
| **Electrical rating** | |
| Power consumption | 8 W at 24 V DC (electromechanical actuation)<br>8 VA at 120 V AC (electromechanical actuation) |
| Rated insulation voltage (Ui) | 400 V |
| Rated operational current (Ie) | 0.8 A at 110 V<br>4 A at AC-15, 380 V 400 V 415 V |

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| | | | 3 A at 24 V<br>0.3 A at 220 V<br>6 A at AC-15, 220 V 230 V 240 V<br>6 A at AC-15, 24 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 |
| **Actuator** | | | |
| Mechanical holding force | | | 1600 N (according to GS-ET-19 (04/2004), XWA, XFG, XF)<br>1700 N (according to GS-ET-19 (04/2004), XG, XW, XNG)<br>1200 N (according to GS-ET-19 (04/2004), XNW) |
| **Design verification** | | | |
| Equipment heat dissipation, current-dependent Pvid | | | 0 W |
| Heat dissipation capacity Pdiss | | | 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

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| 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 | | | Standard actuator |