Part no.
LS-S11-24DFT-ZBZ/X
Powering Business Worldwide"

EL Number
4356170
(Norway)

## General specifications

| Product name |
| :--- |
| Part no. |
| EAN |
| Product Length/Depth |
| Product height |
| Product width |
| Product weight |
| Certifications |


| Product Tradename |
| :--- |
| Product Type |
| Product Sub Type |
| Catalog Notes |

Features \& Functions
Electric connection type
Enclosure material

Features

Fitted with:

Switch function type
General information
Connection type
Degree of protection

Duty factor
Lifespan
Operating frequency
Overvoltage category
Pollution degree
Product category
Rated impulse withstand voltage (Uimp)
Repetition accuracy
Suitable for
Type

Ambient conditions, mechanical

## Eaton Moeller® series LS Position switch

LS-S11-24DFT-ZBZ/X
4015081065899
55 millimetre
170 millimetre
37 millimetre
0.43 kilogram

UL File No.: E29184
IEC/EN 60947-5
UL Category Control No.: NKCR
IEC/EN 60947
CSA
CE
UL 508
CSA File No.: 012528
CSA Class No.: 3211-03
UL
CSA-C22.2 No. 14
LS
Position switch

## None

Contacts with safety function, by positive opening to IEC/EN 60947-5-1
For degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.
In the event of power failure (e.g., during commissioning), the device can be released with a screwdriver. The auxiliary release mechanism must be sealed! $\rightarrow$ Instructional leaflet IL $05208005 Z$
Monitoring of door position: continuous
The operating head can be rotated manually in $90^{\circ}$ steps without tools to suit the specified level of actuation.
With the actuator inserted, the N/O contact is open and the N/C contact is closed.

Cable entry metrical
Plastic
Insulated material
Expandable
Forced opening
Auxiliary release mechanism
Interlock monitoring
Slow-action switch

Screw terminal
IP65
NEMA Other
100 \% (Magnet)
1,000,000 mechanical Operations
800 Operations/h
III

3
Basic units with spring-powered interlock (closed-circuit principle)
4000 V AC
0.02 mm (Contacts/switching capacity)

Safety functions
Position switch
Safety position switch

| Mounting position | As required |
| :---: | :---: |
| Shock resistance | 10 g , Standard-action contact, Mechanical, Half-Sinusoidal shock 20 ms |
| Climatic environmental conditions |  |
| Ambient operating temperature - min | $-25^{\circ} \mathrm{C}$ |
| Ambient operating temperature - max | $70^{\circ} \mathrm{C}$ |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Terminal capacities |  |
| Terminal capacity (flexible with ferrule) | $\begin{aligned} & 1 \times(0.5-1.5) \mathrm{mm}^{2} \\ & 2 \times(0.5-1.5) \mathrm{mm}^{2} \end{aligned}$ |
| Terminal capacity (solid) | $\begin{aligned} & 1 \times(0.75-2.5) \mathrm{mm}^{2} \\ & 2 \times(0.75-1.5) \mathrm{mm}^{2} \end{aligned}$ |
| Screw size | PH1, Terminal screw |
| Tightening torque | 0.9 Nm , Screw terminals |
| Electrical rating |  |
| Power consumption | 8 W at 24 VDC (electromechanical actuation) 8 VA at 120 V AC (electromechanical actuation) <br> 11 VA at 230 V AC (electromechanical actuation) |
| Rated conditional short-circuit current (lq) | 1 kA |
| Rated control supply voltage | 24 V DC (Us, for magnet drive) |
| Rated insulation voltage (Ui) | 400 V |
| Rated operational current (le) at AC-15, $220 \mathrm{~V}, 230 \mathrm{~V}, 240 \mathrm{~V}$ | 6 A |
| Rated operational current (le) at AC-15, 24 V | 6 A |
| Rated operational current (le) at AC-15, $380 \mathrm{~V}, 400 \mathrm{~V}, 415 \mathrm{~V}$ | 4 A |
| Rated operational current (le) at DC-13, 110 V | 0.8 A |
| Rated operational current (le) at $\mathrm{DC}-13,125 \mathrm{~V}$ | 0.8 A |
| Rated operational current (le) at DC-13, 220 V, 230 V | 0.3 A |
| Rated operational current (le) at DC-13, 24 V | 3 A |
| Short-circuit protection rating | Max. $6 \mathrm{AgG} / \mathrm{gL}$, Fuse, Contacts |
| Supply frequency | Max. 400 Hz , Contacts |
| Voltage tolerance | 1.1 x Us, Pick-up and drop-out values 0.85 x Us, Pick-up and drop-out values |
| Actuator |  |
| Actuating force at beginning/end of stroke | $25 \mathrm{~N} / 15 \mathrm{~N}$ (plug-in/pull-out) |
| Actuator type | None |
| Mechanical holding force | 1600 N (according to GS-ET-19 (04/2004), XWA, XFG, XF) 1700 N (according to GS-ET-19 (04/2004), XG, XW, XNG) 1200 N (according to GS-ET-19 (04/2004), XNW) |
| Contacts |  |
| Number of contacts (change-over contacts) | 0 |
| Number of contacts (normally closed contacts) | 1 |
| Number of contacts (normally open contacts) | 1 |
| Safety |  |
| Explosion safety category for gas | None |
| Explosion safety category for dust | None |
| Design verification |  |
| Equipment heat dissipation, current-dependent Pvid | OW |
| Heat dissipation capacity Pdiss | OW |
| Heat dissipation per pole, current-dependent Pvid | 0.13 W |
| Rated operational current for specified heat dissipation (In) | 6 A |
| Static heat dissipation, non-current-dependent Pvs | OW |
| 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 | Meets the product standard's requirements. |
| 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 | The panel builder is responsible for the temperature rise calculation. Eaton will <br> provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be <br> observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be <br> observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction <br> leaflet (IL) is observed. |

## Technical data ETIM 8.0

Sensors (EG000026) / End switch (EC000030)
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Safety-related position switch / Safety position switch (Type 1) (ecl@ss10.0.1-27-27-26-01 [AKE640013])

| Width sensor | mm | 60 |
| :---: | :---: | :---: |
| Diameter sensor | mm | 0 |
| Height of sensor | mm | 173 |
| Length of sensor | mm | 39 |
| Rated operation current le at AC-15, 24 V | A | 6 |
| Rated operation current le at AC-15, 125 V | A | 6 |
| Rated operation current le at AC-15, 230 V | A | 6 |
| Rated operation current le at DC-13, 24 V | A | 3 |
| Rated operation current le at DC-13, 125 V | A | 0.8 |
| Rated operation current le at DC-13, 230 V | A | 0.3 |
| Switching function |  | Slow-action switch |
| Switching function latching |  | No |
| Output electronic |  | No |
| Forced opening |  | Yes |
| Number of safety auxiliary contacts |  | 1 |
| Number of contacts as normally closed contact |  | 1 |
| Number of contacts as normally open contact |  | 1 |
| Number of contacts as change-over contact |  | 0 |
| Type of interface |  | None |
| Type of interface for safety communication |  | None |
| Construction type housing |  | Cuboid |
| Material housing |  | Plastic |
| Coating housing |  | Other |
| Type of control element |  | None |
| Alignment of the control element |  | Other |
| Type of electric connection |  | Cable entry metrical |
| With status indication |  | No |
| Suitable for safety functions |  | Yes |
| Explosion safety category for gas |  | None |
| Explosion safety category for dust |  | None |
| Ambient temperature during operating | ${ }^{\circ} \mathrm{C}$ | -25-70 |
| Degree of protection (IP) |  | IP65 |
| Degree of protection (NEMA) |  | Other |

