

Part no.
LS-S02-24DFT-ZBZ/X
Article no.
106823
Catalog No.
LS-S02-24DFT-ZBZX

## Delivery programme

Basic function

Part group reference
Product range
Degree of Protection
Features
Ambient temperature
Description

Approval

## Contacts

N/C = Normally closed

Notes
Contact sequence

Rated control voltage for magnetic drive
Housing
Connection type

Position switches
Safety position switches
LS...ZBZ/X
Basic units with spring-powered interlock (closed-circuit principle)
IP65
Basic device, expandable
${ }^{\circ} \mathrm{C}$
With ing
with auxiliary release mechanism
Monitoring of door position: continuous

$2 \mathrm{NC} \Theta$
() safety function, by positive opening to IEC/EN 60947-5-1


24 VDC
Insulated material
Screw terminal

Notes Switch must never be used as a mechanical stop!
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.
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 $05208005 Z$

## Technical data

General

Standards
Climatic proofing
Ambient temperature
Mounting position
Degree of Protection
Terminal capacities
Solid

Flexible with ferrule

## IEC/EN 60947

Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30
${ }^{\circ} \mathrm{C} \quad-25-+40$
As required
IP65
$\mathrm{mm}^{2}$
$\mathrm{mm}^{2} \quad 1 \times(0.75-2.5)$
$2 \times(0.75-1.5)$
$\mathrm{mm}^{2} \quad 1 \times(0.5-1.5)$

Tightening torque for terminal screw


Contacts/switching capacity
Rated impulse withstand voltage
Rated insulation voltage
Overvoltage category/pollution degree
Rated operational current

## AC-15

24 V
220 V 230 V 240 V
380 V 400 V 415 V
DC-13
24 V
110 V
220 V
Supply frequency
Short-circuit rating to IEC/EN 60947-5-1
max. fuse
Repetition accuracy
Rated conditional short-circuit current
Mechanical variables
Lifespan, mechanical
Mechanical shock resistance (half-sinusoidal shock, 20 ms )
Standard-action contact
Operating frequency

## Actuation

Mechanical
Actuating force at beginning/end of stroke
Mechanical holding force acc. to GS-ET-19 (04/2004)
XG, XW, XNG
XWA, XFG, XF
XF
XNW
Electromechanical
For magnet

Power consumption

> at 120 VAC
> at 230 VAC
> at 24 VDC

Pick-up and drop-out values
Magnet duty factor

## Design verification as per IEC/EN 61439

Technical data for design verification

10.2.3.1 Verification of thermal stability of enclosures
10.2.3.2 Verification of resistance of insulating materials to normal heat
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects
10.2.4 Resistance to ultra-violet (UV) radiation
10.2.5 Lifting
10.2.6 Mechanical impact
10.2.7 Inscriptions
10.3 Degree of protection of ASSEMBLIES
10.4 Clearances and creepage distances
10.5 Protection against electric shock
10.6 Incorporation of switching devices and components
10.7 Internal electrical circuits and connections
10.8 Connections for external conductors
10.9 Insulation properties
10.9.2 Power-frequency electric strength
10.9.3 Impulse withstand voltage
10.9.4 Testing of enclosures made of insulating material
10.10 Temperature rise
10.11 Short-circuit rating
10.12 Electromagnetic compatibility
10.13 Mechanical function

Meets the product standard's requirements.
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Does not apply, since the entire switchgear needs to be evaluated.
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Is the panel builder's responsibility.
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The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Is the panel builder's responsibility. The specifications for the switchgear must be observed.

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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Technical data ETIM 6.0

Sensors (EG000026) / End switch (ECOOOO3O)
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss8.1-27-27-06-01 [AGZ382012])

| 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 |
| Output electronic |  | No |
| Forced opening |  | Yes |
| Number of safety auxiliary contacts |  | 2 |
| Number of contacts as normally closed contact |  | 2 |
| Number of contacts as normally open contact |  | 0 |
| Number of contacts as change-over contact |  | 0 |
| Type of interface |  | None |
| Type of interface for safety communication |  | None |
| Housing according to norm |  | - |
| Construction type housing |  | Cuboid |
| Material housing |  | Plastic |
| Coating housing |  | - |
| Type of control element |  | - |
| Alignment of the control element |  | - |
| Type of electric connection |  | - |
| With status indication |  | No |

Explosion safety category for gas None
Explosion safety category for dust

# Ambient temperature during operating 

Degree of protection (IP)

## Approvals

IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking
E29184
NKCR
12528
3211-03
UL listed, CSA certified
IEC: IP65, UL/CSA Type 3R, 4X (indoor use only), 12, 13

## Dimensions



Additional product information (links)
IL05208005Z (AWA1310-2354) Safety position switch
IL05208005Z (AWA1310-2354) Safety position ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05208005Z2012_12.pdf switch

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