106839
LS-XW-ZBZ

Overview
Specifications
Resources

Delivery program
Technical data
Design verification as per IEC/EN 61439
Technical data ETIM 7.0
Approvals
Dimensions

DELIVERY PROGRAM

Basic function
actuators

Part group reference
LS...ZBZ/X

Function
Angled actuator

Description
Short
Stainless steel

For use with
For swing doors above 350 mm width

Notes
for combination with LS-...ZBZ/X basic devices
From width: 350 mm

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
Solid
1 x (0.75 - 2.5)
2 x (0.75 - 1.5) mm²

Terminal capacities
Flexible with ferrule
1 x (0.5 - 1.5)
2 x (0.5 - 1.5) mm²

Repetition accuracy
0.02 mm

Contacts/switching capacity

Rated impulse withstand voltage [U_{imp}]
4000 V AC

Rated insulation voltage [U_i]
400 V

Overvoltage category/pollution degree
III/3

Rated operational current [I_e]
AC-15
24 V [I_e]
6 A

Rated operational current [I_e]
AC-15
220 V 230 V 240 V [I_e]
6 A

Rated operational current [I_e]
AC-15
380 V 400 V 415 V [I_e]
4 A

Rated operational current [I_e]
DC-13
24 V [I_e]
3 A

Rated operational current [I_e]
DC-13
110 V [I_e]
0.8 A

Rated operational current [I_e]
DC-13
220 V [I_e]
0.3 A

Supply frequency
max. 400 Hz

Short-circuit rating to IEC/EN 60947-5-1
max. fuse
6 A gG/gL

Mechanical variables

Mechanical shock resistance (half-sinusoidal shock, 20 ms)
Standard-action contact
10 g

Operating frequency [Operations/h]
□ 800

Actuation

Mechanical
Mechanical holding force acc. to GS-ET-19 (04/2004)
XG, XW, XNG
1700 N

Mechanical
Mechanical holding force acc. to GS-ET-19 (04/2004)
XWA, XFG, XF
1600 N

Mechanical
Mechanical holding force acc. to GS-ET-19 (04/2004)
XNW
1200 N

Electromechanical
For magnet
Power consumption
at 120 V AC
8 VA

Electromechanical
For magnet
Power consumption
at 24 V DC
8 W

Electromechanical
Pick-up and drop-out values
0.85 - 1.1 x U_s

Electromechanical
Magnet duty factor
100 % ED

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n]

0 A

Heat dissipation per pole, current-dependent [P_{vid}]
0 W

Equipment heat dissipation, current-dependent [P_{vid}]
0 W

Static heat dissipation, non-current-dependent [P_{vs}]
0 W

Heat dissipation capacity [P_{diss}]
0 W

Operating ambient temperature min.
-25 °C

Operating ambient temperature max.
+40 °C

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 Strength of materials and parts
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Please enquire

10.2 Strength of materials and parts
10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
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 Insulation properties
10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.

10.9 Insulation properties
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@ss10.0.1-27-27-06-05 [BAA078012])

Model
Actuator with vertical mounting

APPROVALS

Product Standards
IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking

UL File No.
E29184

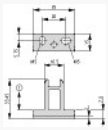
UL Category Control No.
NKCR

CSA File No.
12528

CSA Class No.
3211-03

North America Certification
UL listed, CSA certified

DIMENSIONS



□ Distance to device head = 0.1 … 3.0 mm