LS-XNG-ZBZ - Compensating actuator, flat

106834 LS-XNG-ZBZ

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Compensating actuator, flat

Alternate Catalog No.	LS-XNG-ZBZ
EL-Nummer (Norway)	4356187

IEC EN 60947-5-1, IP65_x, approval of employers' liability insurance Association GS-ET-19, device for world markets, actuator for electromagnetic door interlock, the ZBZ power switch enhances the safety standard for personnel and process protection through reliable protection and locking of protective doors. The ZBZ power switch works according to two principles of operation: with magnetic force or spring-powered interlock. Spring-powered interlock lends itself optimally to personnel protection. Thus each door stays safely closed even during a power failure. In an emergency, the protective guard should be opened using an auxiliary release mechanism. Magnetic-powered interlocks are used for personnel and process protection. The protective shroud is locked when voltage is applied, in the event of power failure the protected area is directly accessible. With separate annunciation of the door position, suitable for use with electronic devices to IEC/EN 61131-2

Delivery program

Basic function
actuators
Part group reference
LS. . .ZBZ/X
Function
Flat compensating actuator
Description
With increased tolerance in closing direction
Stainless steel
For use with
doors that do not close precisely
Notes
for combination with LS-...ZBZ/X basic devices

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 capacitiesSolid
1 x (0.75 - 2.5)

2 x (0.75 - 1.5) mm²
Terminal capacitiesFlexible 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-1524 V [I_e]
6 A
Rated operational current [I_e]AC-15220 V 230 V 240 V [I_e]
6 A
Rated operational current [I_e]AC-15380 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 60947-5-1max. 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
MechanicalMechanical holding force acc. to GS-ET-19 (04/2004)XG, XW, XNG
1700 N
MechanicalMechanical holding force acc. to GS-ET-19 (04/2004)XWA, XFG, XF
1600 N
MechanicalMechanical holding force acc. to GS-ET-19 (04/2004)XNW
1200 N
ElectromechanicalFor magnetPower consumptionat 120 V AC
8 VA
ElectromechanicalFor magnetPower consumptionat 24 V DC
8 W
ElectromechanicalPick-up and drop-out values
0.85 - 1.1 x U_s
ElectromechanicalMagnet 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 parts10.2.2 Corrosion resistance

Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
Please enquire
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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.

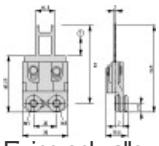
Technical data ETIM 7.0

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 horizontal mounting

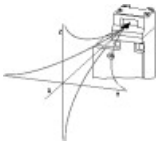
Approvals

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



Fixing only allowed with M5 fixing screw and washer according to DIN EN ISO 7093
□ Distance to device head = 0.1 … 3.0 mm



CAD data

- Product-specific CAD data
  (Web)
- 3D Preview
  (Web)

DWG files

- DA-CD-zbz6
  File
  (Web)

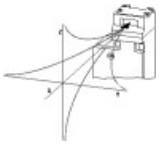
Step files

- DA-CS-zbz6
  File
  (Web)

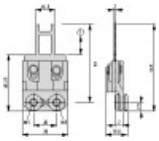
Product photo

- 
  1310PIC-239
  Photo
  Flat, compensating actuator

3D drawing

- 
  1310DRW-32
  Line drawing
- 
  131I112
  Line drawing
  Flat, compensating actuator

Dimensions single product

- 
  1310DIM-11
  Line drawing
  Flat, compensating actuator
  □ Distance to device head = 0.1 … 3.0 mm

Declaration of Conformity

Declaration of Conformity

EU

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