



106852

LSR-S02-1-I/TS

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DELIVERY PROGRAM

Basic function
Position switches
Safety position switches

Part group reference
LSR

Product range
Safety hinge switch

Degree of Protection
IP65

Features
Complete unit

Ambient temperature
-25 - +70 °C

Approval



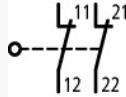
Contacts

NC = Normally closed
2 NC □

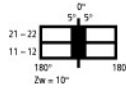
Notes

□ = safety function, by positive opening to IEC/EN 60947-5-1

Contact sequence



Contact travel ■ = Contact closed □ = Contact open



Housing
Insulated material

Connection type
Screw terminal

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

Ambient temperature
-25 - +70 °C

Mounting position
As required

Degree of Protection
IP65

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}]
6000 V AC

Rated insulation voltage [U]
500 V

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. f_{use}
6 A gG/gL

Rated conditional short-circuit current
1 kA

Mechanical variables

Lifespan, mechanical [Operations]
1 x 10⁶

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

Operating frequency [Operations/h]
□ 1800

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n]
6 A

Heat dissipation per pole, current-dependent [P_{vd}]
0.13 W

Equipment heat dissipation, current-dependent [P_{vd}]
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.
+70 °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
Meets the product standard's requirements.

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

The panel builder is responsible for the temperature rise calculation. Eaton will 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 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) / Hinge switch (EC002591)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology
/ Position switch / Hinge switch (ecl@ss10.0.1-27-06-09 [ACN833011])

With status indication
No

Suitable for safety functions
Yes

Type of control element
Hollow shaft

Forced opening
Yes

Number of safety auxiliary contacts
0

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 switching contact
Slow-action switch

Width sensor
30 mm

Height of sensor
91 mm

Length of sensor
32 mm

Rated operation current I_e at AC-15, 24 V
10 A

Rated operation current I_e at AC-15, 125 V
0 A

Rated operation current I_e at AC-15, 230 V
6 A

Rated operation current I_e at DC-13, 24 V
3 A

Rated operation current I_e at DC-13, 125 V
1 A

Rated operation current I_e at DC-13, 230 V
0.5 A

Construction type housing
Ouboid

Material housing
Plastic

Coating housing
Other

Type of electric connection
Cable entry metrical

Explosion safety category for gas
None

Explosion safety category for dust
None

Type of interface
None

Type of interface for safety communication
None

Degree of protection (IP)
IP65

Degree of protection (NEMA)
Other

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

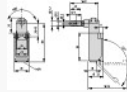
CSA Class No.

3211-03

North America Certification
UL listed, CSA certified

Degree of Protection
IEC: IP65, UL/CSA Type 3R, 4X (indoor use only), 12, 13

DIMENSIONS



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