DATASHEET - LSR-S02-1-I/TS

Part no. Catalog No.

EL-Nummer

(Norway)



Hinge-operated safety switch, 2 N/C, insulated material

LSR-S02-1-I/TS

106852

4356192

Eaton Catalog No. LSR-S02-1-I/TS



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	°C	-25 - +70
Approval		ET 17042 Sicherheit geprüft tested safety
Contacts		
N/C = Normally closed		2 NC 🛞
Notes		Θ = safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence		o
Contact travel = Contact closed = Contact open		$21 - 22$ $11 - 12$ 180° $2w = 10^{\circ}$ 180°
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	°C	-25 - +70
Mounting position		As required
Degree of Protection		IP65
Terminal capacities	mm ²	
Solid	mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)
Flexible with ferrule	mm ²	1 x (0.5 - 1.5) 2 x (0.5 - 1.5)

Contacts/switching capacity

Radio onlogeNVSecond second s	Contacts/switching capacity			
Retupe rational current Retupe and current R	Rated impulse withstand voltage	U _{imp}	V AC	6000
ᡬ-โэIceIce4VIaIaIa2UV20UV4UVIaIaIa300V40U15VIaIaIaDC-13IceIaIa2UV3UVAUVIaIaIa2UV3UVAUVIaIaIa2UV3UVAUVAUVIaIaIa2UV3UVAUVAUVAUVAUVAUVAUVAUVAUVAUVAUVAUVAUVAU	Rated insulation voltage	Ui	V	500
ا السابقة السابقة السابقة السابقة السابقة 1 20 V 20	Rated operational current	le	А	
220 V230 V240 V415 V In A 6 380 V400 V415 V In 6 6 DC 13 In 7 7 24 V In 8 3 10 V In 8 8 20 V200 V415 V In 9 9 24 V In 9 9 10 V In 9 9 20 V In A 9 20 V In 9 9 Suply frequency In 9 9 In ax. fuse In 9 9 Repetition accuracy In 9 9 Repetitionaccuracy In 10 9 Mechanical Variables In 9 9 Standard exit (In Elisation accuracy) In 1 9 Mechanical shock resistance (Infel-Finangel Accuracy) In 1 9 Standard accuracy In In 1 9	AC-15			
380 400 V 415 V Pe A A DC-13 Pe A A 24 V Ia A S 10 V Ia A S 20 V Ia A S 20 V Ia A S Suply frequency Ia A S max. fuse A A S Repetition accuracy A A S Repetitional short-circuit current Ma A S Mechanical shock resistance (half-sinusoidal shock, 20 ms) F Ma S Standrd-action contact Partions AI A	24 V	le	Α	6
DC-13 - DC-13 Image: Comparison of the comparison	220 V 230 V 240 V	le	А	6
24V In	380 V 400 V 415 V	le	А	4
10 V Ie A 08 20 V Ie A 03 Suply frequency Ie Hz max.400 max.fuse A 6/6/L G Repetition accuracy A 6/6/L Max Reterminational short-circuit current V 02 Mechanical variables V 02 Iterpan mechanical Operation x 10 ⁶ Standard-action contact Imax 1	DC-13			
20 V Ie A 0 Supply frequency Ie Hz max.400 Short-circuit rating to IEC/EN 60947-5-1 Ie Ie A g/G/g max.fuse A g/G/g 6 Ie max Repetition accuracy Im 0.2 Ie Max Rede conditional short-circuit current Ie Ka 1e Ie Ie Mechanical variables Verations x 10 ⁶ Ie	24 V	le	Α	3
Supply frequency Hz max. 400 short-circuit rating to IEC/EN 60947-5-1 Hz max. 400 max. fuse A g6/L G Repetition accuracy Mg A g6/L Mg Rated conditional short-circuit current Mg A A Mechanical variables Hz Mg Mg Ketonical short-resistance (half-sinusoidal shock, 20 ms) Mg Mg Mg Standard-action contact Image Image Image	110 V	le	А	0.8
Short-circuit rating to IEC/EN 60947-5-1 Imax. fuse A g6/gL A g6/gL max. fuse A g6/gL Mm 0.02 Repetition accuracy KA A Rated conditional short-circuit current KA A Mechanical variables Verations Ya10 ⁶ Mechanical shock resistance (half-sinusoidal shock, 20 ms) Perations Ya10 ⁶ Standard-action contact g g	220 V	le	А	0.3
max. fuseA gG/LA gG/LA gG/LRepetition accuracymm0.2Rated conditional short-circuit currentkAAMechanical variablesyyLifespan, mechanicalOperationsyAMechanical shock resistance (half-sinusoidal shock, 20 ms)PyAStandard-action contactggS	Supply frequency		Hz	max. 400
Repetition accuracy nm 0.02 Rated conditional short-circuit current kA 1 Mechanical variables yang yang Lifespan, mechanical Operations yang Mechanical shock resistance (half-sinusoidal shock, 20 ms) yang gang Standard-action contact gang gang	Short-circuit rating to IEC/EN 60947-5-1			
Rated conditional short-circuit current kA Mechanical variables Lifespan, mechanical Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact	max. fuse		A gG/gL	6
Mechanical variables Lifespan, mechanical Operations x 10 ⁶ Mechanical shock resistance (half-sinusoidal shock, 20 ms) I Standard-action contact g g	Repetition accuracy		mm	0.02
Lifespan, mechanical Operations x 10 ⁶ Mechanical shock resistance (half-sinusoidal shock, 20 ms) g 25	Rated conditional short-circuit current		kA	1
Mechanical shock resistance (half-sinusoidal shock, 20 ms) g 25	Mechanical variables			
Standard-action contact g 25	Lifespan, mechanical	Operations	x 10 ⁶	1
	Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Operating frequency Operations/h ≦ 1800	Standard-action contact		g	25
	Operating frequency	Operations/h		≦ 1800

Design verification as per IEC/EN 61439

besign vermoution as per reo/en or tos			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.13
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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 provide heat dissipation data for the devices.

10.11 Short-circuit rating
10.12 Electromagnetic compatibility
10.13 Mechanical function

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 7.0

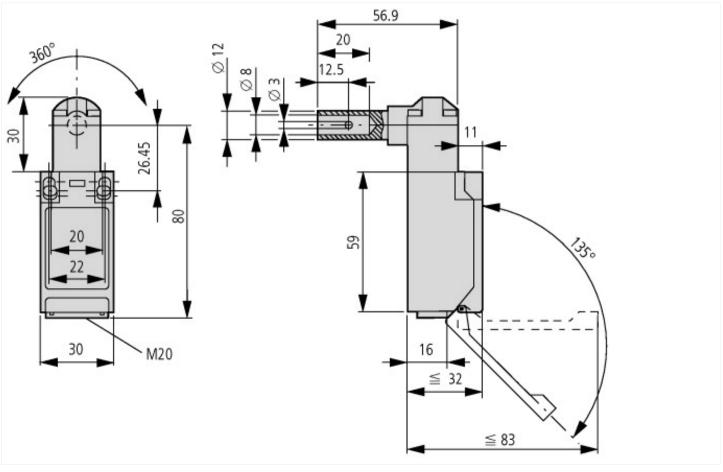
Sensors (EG000026) / Hinge switch (EC002591)

Electric engineering, automation, process control engineering / Binary sensor tech [ACN833011])	ınology, safety-ı	related se	ensor technology / Position switch / Hinge switch (ecl@ss10.0.1-27-27-06-09
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		mm	30
Height of sensor		mm	91
Length of sensor		mm	32
Rated operation current le at AC-15, 24 V		А	10
Rated operation current le at AC-15, 125 V		А	0
Rated operation current le at AC-15, 230 V		А	6
Rated operation current le at DC-13, 24 V		А	3
Rated operation current le at DC-13, 125 V		А	1
Rated operation current le at DC-13, 230 V		А	0.5
Construction type housing			Cuboid
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

- PP	
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



Additional product information (links)

IL05208006Z (AWA1310-2363) Hasp-Operated and Hinge-Operated Safty Switches

IL05208006Z (AWA1310-2363) Hasp-Operated ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05208006Z2018_09.pdf and Hinge-Operated Safty Switches

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