

Specifications



Eaton 106817

Eaton Moeller® series LS Safety position switch, LS(4)...ZB, Safety position switches, Complete unit, 2 NC, Insulated material, Cage Clamp, -25 - +70 °C

General specifications

PRODUCT NAME	Eaton Moeller® series LS Safety position switch
CATALOG NUMBER	106817
MODEL CODE	LS-02-ZB
EAN	4015081066308
PRODUCT LENGTH/DEPTH	30 mm
PRODUCT HEIGHT	95 mm
PRODUCT WIDTH	30 mm
PRODUCT WEIGHT	0.08 kg
CERTIFICATIONS	IEC/EN 60947 UL Category Control No.: NKCR CSA Class No.: 3211-03 IEC/EN 60947-5 CE UL File No.: E29184 CSA UL 508 CSA File No.: 012528 CSA-C22.2 No. 14 UL
CATALOG NOTES	Using the product in areas exposed to ozone and UV radiation or in sub-zero temperatures in unprotected outdoor environments (e.g. altitudes above 1,000 m, unprotected sunlight) may reduce the degree of protection. The customer / user must validate the overall application accordingly. If applicable, the use of the LS-...-CC (Cold Climate) variants should be considered.
GLOBAL CATALOG	106817



Powering Business Worldwide

PRODUCT TYPE

Safety position switch

Product specifications

TYPE	• Position switch • Safety position switch
FEATURES	Forced opening
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.
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 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. 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	Does not apply, since the

Resources

	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CATALOGS	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-safety-position-switch-declaration-of-conformity-uk260008en.pdf eaton-safety-position-switch-declaration-of-conformity-eu251547en.pdf
DRAWINGS	eaton-safety-position-switches-ls-dimensions.eps eaton-safety-position-switches-switch-ls-3d-drawing.eps
ECAD MODEL	ETN.106817.edz
INSTALLATION INSTRUCTIONS	eaton-position-switches-ls-zb-safety-position-switch-instruction-leaflet-il05208003z.pdf
MCAD MODEL	eaton-limit-switches-mcad-drawings-ls-zb-mit-betaetiger.dwg DA-CS-ls zb mit betaetiger
SALES NOTES	eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf
WIRING DIAGRAMS	eaton-safety-position-switches-contact-ls-wiring-diagram-002.eps

PROTECTION OF ASSEMBLIES	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.
10.9.2 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.
ELECTRIC CONNECTION TYPE	Cable entry metrical
ENCLOSURE MATERIAL FINISHING	Other
OPERATING FREQUENCY	1800 Operations/h
POLLUTION DEGREE	3
ACTUATOR ALIGNMENT	Other
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ENCLOSURE MATERIAL	Insulated material Plastic
ENCLOSURE TYPE	Cuboid
RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V	0.6 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 125 V	0.8 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0.3 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	3 A
RATED OPERATIONAL CURRENT FOR SPECIFIED	6 A

HEAT DISSIPATION (IN)	
SENSOR HEIGHT	96 mm
SENSOR LENGTH	33.35 mm
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
WIDTH SENSOR	30 mm
PRODUCT CATEGORY	Safety position switches
ACTION	2021118113756-Mechanical Limit Switches.xlsm-Data
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
ACTUATING FORCE AT BEGINNING/END OF STROKE	10 N/5 N (plug-in/pull-out)
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
ACTUATOR TYPE	Other
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.17 W
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF SAFETY AUXILIARY CONTACTS	0
RATED INSULATION VOLTAGE (UI)	400 V
RATED OPERATIONAL CURRENT (IE) AT AC-15, 125 V	6 A

RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	6 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 24 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V	4 A
MOUNTING POSITION	As required Vertical Horizontal
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
OVERVOLTAGE CATEGORY	III
CONNECTION TYPE	Cage Clamp
DEGREE OF PROTECTION	IP66 NEMA Other
INTERFACE TYPE	None
SWITCH FUNCTION TYPE	Slow-action switch
SCREW SIZE	PH1, Terminal screw
LIFESPAN	1,500,000 mechanical Operations
REPETITION ACCURACY	0.15 mm (Contacts/switching capacity)
SHOCK RESISTANCE	25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms
SUPPLY FREQUENCY	Max. 400 Hz, Contacts
SUITABLE FOR	Safety functions
TIGHTENING TORQUE	0.4 Nm, Screw terminals
SHORT-CIRCUIT PROTECTION RATING	Max. 6 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ² 2 x (0.5 - 1.5) mm ²
TERMINAL CAPACITY (SOLID)	1 x (0.5 - 1.5) mm ² 2 x (0.5 - 1.5) mm ²

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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