

Specifications



Eaton 106858

Eaton Moeller® series LS4 Safety position switch, LS(4)...ZB, Safety position switches, Complete unit, 1 N/O, 1 NC, wide, Insulated material, Screw terminal, -25 - +70 °C

General specifications

PRODUCT NAME	Eaton Moeller® series LS4 Safety position switch
CATALOG NUMBER	106858
MODEL CODE	LS4/S11-1/IA/ZB
EAN	4015081066186
PRODUCT LENGTH/DEPTH	42 mm
PRODUCT HEIGHT	130 mm
PRODUCT WIDTH	65 mm
PRODUCT WEIGHT	0.227 kg
CERTIFICATIONS	UL 508 CSA File No.: 012528 CE IEC/EN 60947 CSA Class No.: 3211-03 UL UL Category Control No.: NKCR CSA-C22.2 No. 14 CSA IEC/EN 60947-5 UL File No.: E29184
GLOBAL CATALOG	106858

Product specifications

TYPE	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
CERTIFICATION REPORTS	0000SPC-154
CONTROL TRAVEL DIAGRAM	eaton-safety-position-switches-ls4-contact-travel-diagram-002.eps
DECLARATIONS OF CONFORMITY	DA-DC-00004358.pdf DA-DC-00004363.pdf
	eaton-safety-position-switches-actuation-ls4-dimensions.eps eaton-safety-position-switches-switch-ls4-dimensions.eps eaton-safety-position-switches-actuation-ls4-dimensions-002.eps eaton-safety-position-switches-enclosure-ls4-3d-drawing-002.eps
ECAD MODEL	DA-CE-ETN.LS4_S11-1_IA_ZB
INSTALLATION INSTRUCTIONS	IL05208004Z
MCAD MODEL	DA-CS-basis_ls4_mit_b_2 DA-CD-basis_ls4_mit_b_2
SALES NOTES	eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf
WIRING DIAGRAMS	eaton-safety-position-switches-contact-ls-wiring-diagram.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	0.8 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,	3 A

24 V	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
SENSOR HEIGHT	125 mm
SENSOR LENGTH	40 mm
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
WIDTH SENSOR	40 mm
PRODUCT CATEGORY	Safety position switches
ACTION	2020122120328-Mechanical Limit Switches.xlsm-Data
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
ACTUATING FORCE AT BEGINNING/END OF STROKE	15 N/20 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
DIAMETER SENSOR	0 mm
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.1 W
NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

NUMBER OF SAFETY AUXILIARY CONTACTS	0
RATED INSULATION VOLTAGE (UI)	500 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
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA
OVERVOLTAGE CATEGORY	III
CONNECTION TYPE	Screw terminal
DEGREE OF PROTECTION	IP65 NEMA Other
INTERFACE TYPE	None
SWITCH FUNCTION TYPE	Slow-action switch
SCREW SIZE	PH1, Terminal screw
LIFESPAN	1,500,000 mechanical Operations
REPETITION ACCURACY	0.02 mm (Contacts/switching capacity)
SHOCK RESISTANCE	5 g, Standard-action contact, Mechanical, Half- sinusoidal shock 20 ms
SUPPLY FREQUENCY	Max. 400 Hz, Contacts
SUITABLE FOR	Safety functions
TIGHTENING TORQUE	0.9 Nm, Screw terminals
SHORT-CIRCUIT PROTECTION RATING	Max. 10 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)	2 x (0.75 - 1.5) mm ² 1 x (0.75 - 2.5) mm ²

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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