

Specifications



Eaton 266122

Eaton Moeller® series LSE Safety position switch, LSE, Position switch with electronically adjustable operating point, Basic device, expandable, 2 NC, Yellow, Insulated material, Cage Clamp, -25 - +70 °C

General specifications

PRODUCT NAME	Eaton Moeller® series LSE Safety position switch
CATALOG NUMBER	266122
MODEL CODE	LSE-02
EAN	4015082661229
PRODUCT LENGTH/DEPTH	33.5 mm
PRODUCT HEIGHT	76.5 mm
PRODUCT WIDTH	31 mm
PRODUCT WEIGHT	0.048 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	CSA Std. C22.2 No. 14 EN 60947-5 IEC 60947-5 UL 508 CE CSA UL CSA Class No.: 3211-03 IEC/EN 61000-4 UL Category Control No.: NKCR CSA-C22.2 No. 14 IEC/EN 60947 IEC/EN 60947-5 CSA File No.: 012528 UL File No.: E29184
GLOBAL CATALOG	266122

Product specifications

TYPE	Safety position switch
VOLTAGE RATING	12-30 Vdc
FEATURES	Expandable
AIR DISCHARGE	8 kV, according to IEC/EN 61000-4-2, Level 3, ESD
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.

Resources

CATALOGS	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
CONTROL TRAVEL DIAGRAM	eaton-position-switches-diagram-lse-contact-travel-diagram-002.eps
DECLARATIONS OF CONFORMITY	eaton-safety-position-switch-declaration-of-conformity-uk251133en.pdf eaton-safety-position-switch-declaration-of-conformity-eu250650en.pdf
DRAWINGS	eaton-position-switches-plunger-ls-dimensions-004.eps eaton-operating-button-symbol-008.eps eaton-general-esr5-safety-relay-symbol.eps
ECAD MODEL	DA-CE-ETN.LSE-02
INSTALLATION INSTRUCTIONS	eaton-electronic-position-switch-lse-instruction-leaflet-il05208001z.pdf
MCAD MODEL	DA-CD-lse DA-CS-lse
SALES NOTES	eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf
WIRING DIAGRAMS	eaton-position-switches-diagram-lse-wiring-diagram.eps

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.
10.9.2 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
FITTED WITH:	Status indication
OPERATING FREQUENCY	3000 Operations/h
POLLUTION DEGREE	3
BURST IMPULSE	2 kV, Signal cable, according to IEC/EN 61000-4-4, Level 3 2 kV, Supply cable, according to IEC/EN 61000-4-4, Level 3
ACTUATOR ALIGNMENT	Roller cam straight
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ENCLOSURE MATERIAL	Plastic Insulated material
ENCLOSURE TYPE	Cuboid
RATED OPERATIONAL CURRENT (IE) AT DC-1, 12 V	0.015 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 24 V	18 A

RATED OPERATIONAL CURRENT (IE) AT DC-13, 125 V	0 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V	0 A
RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V	0.2 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0.2 A
RATED SWITCHING DISTANCE (SN) - MAX	5.5 mm
RATED SWITCHING DISTANCE (SN) - MIN	0.5 mm
SENSOR HEIGHT	61 mm
SENSOR LENGTH	33.5 mm
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0.4 W
SWITCHING HYSTERESIS OF SN	0.4 %
WIDTH SENSOR	31 mm
PRODUCT CATEGORY	Position switch
ACTION	2021118113756-Mechanical Limit Switches.xlsm-Data
CONNECTION	Cage clamp
CONTACT CONFIGURATION	2 NC
ENCLOSURE COLOR	Yellow Cover
ACTUATING FORCE AT BEGINNING/END OF STROKE	3.5 N/8.0 N
EXPLOSION SAFETY CATEGORY FOR DUST	None
INDICATION	Visual status indication
EXPLOSION SAFETY CATEGORY FOR GAS	None
ACTUATOR TYPE	Plunger
ACTUATING TORQUE OF ROTARY DRIVES	0.2 Nm
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	0.15 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
OPERATING TEMPERATURE - MAX	40 °C
OPERATING TEMPERATURE - MIN	-25 °C
RATED OPERATIONAL CURRENT (IE) AT AC-15, 125 V	0 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V	0 A
RATED OPERATIONAL CURRENT (IE) AT AC-15, 24 V	0 A
FUNCTIONS	Output electronic
MOUNTING POSITION	As required
MATERIAL	Plastic housing
CONTACT DISCHARGE	4 kV, according to IEC/EN 61000-4-2, Level 3, ESD
OVERVOLTAGE CATEGORY	III
CONNECTION TYPE	Cage Clamp
TEMPERATURE RESISTANCE	100 °C, Contact temperature of roller head
SURGE RATING	0.5 kV, Power pulses (Surge), according to IEC/EN 61000-4-5, EMC
DEGREE OF PROTECTION	IP66/IP67 NEMA Other
INTERFACE TYPE	None
SWITCH FUNCTION TYPE	Slow-action switch
ELECTROMAGNETIC	10 V/m (according to IEC

FIELDS	EN 61000-4-3)
IMMUNITY TO LINE-CONDUCTED INTERFERENCE	10 V (according to IEC/EN 61000-4-6)
LIFESPAN	3,000,000 electrical Operations 3,000,000 mechanical Operations
RATED OPERATIONAL VOLTAGE	12 - 30 V DC
REPETITION ACCURACY	0.02 mm (Contacts/switching capacity)
SHOCK RESISTANCE	30 g, Basic unit, Mechanical, Half-Sinusoidal shock 20 ms
SUITABLE FOR	Safety functions
OPERATING SPEED	For angle of actuation $\alpha = 0^\circ/30^\circ$ Max. 1/0.5 m/s (with DIN cam, mechanical actuation)
RATED BREAKING CAPACITY	0.019 A (30 V DC)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ²
TERMINAL CAPACITY (SOLID)	1 x (0.5 - 2.5) mm ²

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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