Specifications

Photo is representative

Eaton 106828

Eaton Moeller® series LS Position switch, 1N/O+1N/C, basic, magnet-powered interlock LS-S11-230AMT-ZBZ/X

General specifications	
PRODUCT NAME	Eaton Moeller® series LS Position switch
CATALOG NUMBER	106828
MODEL CODE	LS-S11-230AMT-ZBZ/X
EAN	4015081065882
PRODUCT LENGTH/DEPTH	55 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	37 mm
PRODUCT WEIGHT	0.417 kg
CERTIFICATIONS	CSA UL Category Control No.: NKCR IEC/EN 60947 UL CSA-C22.2 No. 14 IEC/EN 60947-5 UL 508 CE CSA Class No.: 3211-03 CSA File No.: 012528 UL File No.: E29184
GLOBAL CATALOG	106828
PRODUCT TYPE	Position switch

Product specifications

FEATURES	Forced opening Expandable
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.
10.2.3.2 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 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	Does not apply, since the entire switchgear needs to

Resources

CATALOGS	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-position-switch-declaration-of-conformity-uk251040en.pdf eaton-position-switch-declaration-of-conformity-eu251549en.pdf
DRAWINGS	eaton-position-switches-ls-dimensions.eps
ECAD MODEL	ETN.106828.edz
INSTALLATION INSTRUCTIONS	eaton-ls-s-zbz-safety-position-switch-instruction-leaflet-il05208005z.pdf
MCAD MODEL	eaton-mechanical-limit-switches-mcad-drawings-zbz.dwg DA-CS-zbz
SALES NOTES	eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 106828
WIRING DIAGRAMS	eaton-position-switches-contact-ls-wiring-diagram-005.eps

SHOCK	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.
ELECTRIC CONNECTION TYPE	Cable entry metrical
ENCLOSURE MATERIAL FINISHING	Other
FITTED WITH:	Interlock monitoring
OPERATING FREQUENCY	800 Operations/h
POLLUTION DEGREE	3
ACTUATOR ALIGNMENT	Other
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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, 24 V	3 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
SENSOR HEIGHT	173 mm
SENSOR LENGTH	39 mm
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

WIDTH SENSOR	60 mm
PRODUCT CATEGORY	Basic devices with magnet-powered interlock (open-circuit principle)
ACTION	2021118113756-Mechanical Limit Switches.xlsm-Data
FORCE FOR POSITIVE OPENING - MIN	50 N
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
ACTUATING FORCE AT BEGINNING/END OF STROKE	25 N/15 N (plug-in/pull-out)
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
ACTUATOR TYPE	None
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	0.13 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	1
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	6 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
DUTY FACTOR	100 % (Magnet)
DEGREE OF PROTECTION	IP65 NEMA Other
INTERFACE TYPE	None
SWITCH FUNCTION TYPE	Slow-action switch
LIFESPAN	1,000,000 mechanical Operations
RATED CONTROL SUPPLY VOLTAGE	230 V 50/60 Hz (Us, for magnet drive)
REPETITION ACCURACY	0.02 mm (Contacts/switching capacity)
SHOCK RESISTANCE	10 g, Standard-action contact, Mechanical, Half-Sinusoidal shock 20 ms
MECHANICAL HOLDING FORCE	1600 N (according to GS-ET-19 (04/2004), XWA, XFG, XF) 1700 N (according to GS-ET-19 (04/2004), XG, XW, XNG) 1200 N (according to GS-ET-19 (04/2004), XNW)
SUPPLY FREQUENCY	Max. 400 Hz, Contacts
SUITABLE FOR	Safety functions
POWER CONSUMPTION	8 W at 24 V DC (electromechanical actuation) 8 VA at 120 V AC (electromechanical actuation) 11 VA at 230 V AC (electromechanical actuation)
SHORT-CIRCUIT PROTECTION RATING	Max. 6 A gG/gL, Fuse, Contacts
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm² 2 x (0.5 - 1.5) mm²

TERMINAL CAPACITY (SOLID)	2 x (0.75 - 1.5) mm² 1 x (0.75 - 2.5) mm²

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:

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