

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



Powering Business Worldwide

Actuator

ACTUATING FORCE AT BEGINNING/END OF STROKE	25 N/15 N (plug-in/pull-out)
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ACTUATOR TYPE	None
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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)
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
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AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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Ambient conditions, mechanical

MOUNTING POSITION	As required
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SHOCK RESISTANCE	10 g, Standard-action contact, Mechanical, Half-Sinusoidal shock 20 ms
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Contacts

FORCE FOR POSITIVE OPENING - MIN	50 N
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NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)	0
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NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
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NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
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Design verification

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 SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF	Does not apply, since the

Electrical rating

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)
RATED CONTROL SUPPLY VOLTAGE	230 V 50/60 Hz (Us, for magnet drive)
RATED INSULATION VOLTAGE (UI)	400 V
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
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
SHORT-CIRCUIT PROTECTION RATING	Max. 6 A gG/gL, Fuse, Contacts
SUPPLY FREQUENCY	Max. 400 Hz, Contacts
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	1 kA

SWITCHING DEVICES AND COMPONENTS	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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.13 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Features & functions	
ELECTRIC CONNECTION TYPE	Cable entry metrical
ENCLOSURE MATERIAL	Insulated material Plastic
FEATURES	Forced opening Expandable
FITTED WITH:	Interlock monitoring
SWITCH FUNCTION TYPE	Slow-action switch

General information	
CONNECTION TYPE	Screw terminal
DEGREE OF PROTECTION	IP65 NEMA Other
DUTY FACTOR	100 % (Magnet)
LIFESPAN	1,000,000 mechanical Operations
OPERATING FREQUENCY	800 Operations/h
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Basic devices with magnet-powered interlock (open-circuit principle)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
REPETITION ACCURACY	0.02 mm (Contacts/switching capacity)
SUITABLE FOR	Safety functions

Safety

EXPLOSION SAFETY CATEGORY FOR DUST	None
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EXPLOSION SAFETY CATEGORY FOR GAS	None
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Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.5 - 1.5) mm ² 2 x (0.5 - 1.5) mm ²
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TERMINAL CAPACITY (SOLID)	2 x (0.75 - 1.5) mm ² 1 x (0.75 - 2.5) mm ²
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Resources

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



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