

Eaton 156509

Eaton Moeller® series LS Position switch,
Rotary lever, Complete device, 2 NC, Cage
Clamp, Yellow, Insulated material, -40 - +70
°C, EN 50047 Form A

PRODUCT NAME	Eaton Moeller® series LS Position switch
CATALOG NUMBER	156509
PRODUCT LENGTH/DEPTH	33.5 mm
PRODUCT HEIGHT	110 mm
PRODUCT WIDTH	31 mm
PRODUCT WEIGHT	0.066 kg
CERTIFICATIONS	UL UL Category Control No.: NKR CSA-C22.2 No. 14 UL File No.: E29184 CE CSA UL 508 IEC/EN 60947-5 IEC/EN 60947 CSA Class No.: 3211-03 CSA File No.: 012528
CATALOG NOTES	<ul style="list-style-type: none">• Contacts with safety function, by positive opening to IEC/EN 60947-5-1• Contains a silicone seal to increase resistance to ozone, detergents and disinfectants.

FEATURES	The operating head can be rotated 90° to enable adaptation to the specified approach direction Positive 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

DECLARATIONS OF CONFORMITY	DA-DC-00004160.pdf
	DA-DC-00004133.pdf
	IL053001ZU
	eaton-position-switches-contact-ls-wiring-diagram.eps
	eaton-position-switches-diagram-ls-contact-travel-diagram-019.eps
	eaton-position-switches-plunger-ls-dimensions-004.eps
	eaton-position-switches-rotary-handle-ls-dimensions.eps

	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 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.
OPERATING FREQUENCY	6000 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ENCLOSURE MATERIAL	Insulated material
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
ENCLOSURE COLOR	Yellow Cover
ACTUATOR TYPE	Rotary lever
ACTUATING TORQUE OF ROTARY DRIVES	0.2 Nm
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °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 (NORMALLY CLOSED CONTACTS)	2
RATED INSULATION VOLTAGE (UI)	400 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
ACCESSORIES	Accessories for the Cage-Clamp terminals from Wago: Power comb, gray, Wago Article No. 264-402
PRODUCT CATEGORY	Rotary lever
ACTUATING FORCE AT BEGINNING/END OF STROKE	1.0 N/8.0 N
DESIGN	EN 50047 Form A
MOUNTING POSITION	As required
OVERVOLTAGE CATEGORY	III
CONTROL CIRCUIT RELIABILITY	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
CONNECTION TYPE	Cage Clamp
DEGREE OF PROTECTION	IP66 NEMA 4X (indoor use only) NEMA 13 IP67 NEMA 3R NEMA 12
LIFESPAN, MECHANICAL	8,000,000 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
OPERATING SPEED	Max. 1.5 m/s (with DIN cam, mechanical actuation)
RATED OPERATIONAL CURRENT (IE)	4 A at AC-15, 380 V 400 V 415 V 0.6 A at 110 V 3 A at 24 V 6 A at AC-15, 220 V 230 V 240 V 6 A at AC-15, 24 V 0.3 A at 220 V
SHORT-CIRCUIT PROTECTION RATING	Max. 6 A gG/gL, Fuse, Contacts
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:
:



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