Specifications

Eaton 168103

Eaton Moeller® series SOL30 Safety Fireman's switch, for 4 strings, 25A, MV

General specifications	
PRODUCT NAME	Eaton Moeller® series SOL30 Safety Fireman's switch
CATALOG NUMBER	168103
EAN	4015081646807
PRODUCT LENGTH/DEPTH	150 mm
PRODUCT HEIGHT	405 mm
PRODUCT WIDTH	375 mm
PRODUCT WEIGHT	6.8 kg
CERTIFICATIONS	IEC/EN 60 947-3
MODEL CODE	SOL30X4-SAFETY-MV-U(230V50HZ)

Powering Business Worldwide

Product specifications

APPLICATION	• Residential buildings • Utility buildings
PRODUCT CATEGORY	• Fireman's Switch • Switchgear for photovoltaic systems
FEATURES	Complete device in housing
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	UV resistance only in connection with protective shield.

Resources

CATALOGUES	eaton-feuerwehrschalter-das-große-plus-an-sicherheit.pdf Product Range Catalog Switching and protecting motors
CHARACTERISTIC CURVE	eaton-manual-motor-starters-sol30-fireman's-switch-dimensions-004.eps eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing-007.eps eaton-motorstarters-undervoltage-sol30-fireman's-switch-characteristic-curve.eps eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing-005.eps
DECLARATIONS OF CONFORMITY	DA-DC-00004831.pdf DA-DC-00004823.pdf
ECAD MODEL	DA-CE-ETN.SOL30X4-SAFETY-MV-U(230V50HZ)
INSTALLATION INSTRUCTIONS	IL03402053Z2021_10.pdf
MCAD MODEL	sol30x4_safety_mv_u.dwg sol30x4_safety_mv_u.stp

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 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.
FITTED WITH:	0 (off) position Retraction in 0-position
OPERATING FREQUENCY	120 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
ENCLOSURE MATERIAL	Plastic
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V
UTILIZATION CATEGORY	DC-21 A DC-PV1 (EN 60947-3) DC-PV2 (EN 60947-3)
ACTUATOR TYPE	Turn button

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	0.36 kA
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
CONNECTION TYPE	M12, Inputs M12, Outputs
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Two-pole
DEGREE OF PROTECTION	IP65
MODEL	On/Off switch
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA Other
LIFESPAN, MECHANICAL	100,000 Operations
RATED OPERATIONAL CURRENT (IE)	26 A at DC-PV1 10 A at DC-PV2
LIFESPAN, ELECTRICAL	1,500 Operations
RESISTANCE	7 mΩ (internal)
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	0 A
SUITABLE FOR	Ground mounting
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	0 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	1000 V
RATED UNINTERRUPTED CURRENT (IU)	30 A
RATED SHORT-CIRCUIT MAKING CAPACITY (ICM)	0.32 kA (up to 440 V, 50/60 Hz)

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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