

Eaton 172945

Eaton Moeller® series SOL30 Safety
Fireman's switch 25 A; with gland nut;
undervoltage release 24 VDC

PRODUCT NAME	Eaton Moeller® series SOL30 Safety Fireman's switch
CATALOG NUMBER	172945
PRODUCT LENGTH/DEPTH	255 mm
PRODUCT HEIGHT	135 mm
PRODUCT WIDTH	165 mm
PRODUCT WEIGHT	0.852 kg
CERTIFICATIONS	IEC/EN 60 947-3

PRODUCT CATEGORY	<ul style="list-style-type: none"> • Fireman's Switch • Switchgear for photovoltaic systems
FEATURES	Version as maintenance-/service switch
ACTUATOR COLOR	Black
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.
10.2.5 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.

CHARACTERISTIC CURVE	eaton-manual-motor-starters-switch-sol30-fireman's-switch-dimensions.eps
	eaton-motorstarters-undervoltage-sol30-fireman's-switch-characteristic-curve.eps
	eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing-008.eps
	eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing.eps
	eaton-fireman-switch-sol30-safety-il03801002z.pdf
	eaton-feuerwehrschaalter-das-große-plus-an-sicherheit.pdf

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:	Voltage release optional
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
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V
UTILIZATION CATEGORY	DC-21 A DC-PV (EN 60947-3)
RATED PERMANENT CURRENT AT AC-21, 400 V	0 A
RATED PERMANENT CURRENT AT AC-23, 400 V	0 A
RATED UNINTERRUPTED CURRENT (IU)	32 A
SWITCHING POWER AT 400 V	30 kW
APPLICATION	<ul style="list-style-type: none"> Residential

	buildings <ul style="list-style-type: none"> • Utility buildings
DEVICE CONSTRUCTION	Complete device in housing
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	0.36 kA
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Cable clamp
ACTUATOR TYPE	Toggle
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	0 kA
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION (FRONT SIDE)	IP65
NUMBER OF POLES	Single-pole
CONNECTION TYPE	M12, Inputs M12, Outputs
DEGREE OF PROTECTION	NEMA Other
SUITABLE FOR	Ground mounting Floor mounting
LOCKING FACILITY	Lockable in the 0 (Off) position (with padlock)
NUMBER OF SWITCHES	1
RESISTANCE	7 mΩ (internal)
LIFESPAN, MECHANICAL	100,000 Operations
LIFESPAN, ELECTRICAL	1,500 Operations
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
RATED OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING	690 V

VOLTAGE (UE) - MIN	
RATED SHORT-CIRCUIT MAKING CAPACITY (ICM)	0.32 kA (up to 440 V, 50/60 Hz)
RATED OPERATIONAL CURRENT (IE) AT DC-21A	26 A
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	0 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	0 kW
HOUSING COLOR	Other
HOUSING MATERIAL	Plastic

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
:



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