

Specifications



Eaton 168101

Eaton Moeller® series SOL30 Safety Fireman's switch, for 3 strings, 25A, MV

General specifications

PRODUCT NAME	Eaton Moeller® series SOL30 Safety Fireman's switch
CATALOG NUMBER	168101
MODEL CODE	SOL30X3-SAFETY-MV-U(230V50HZ)
EAN	4015081646784
PRODUCT LENGTH/DEPTH	150 mm
PRODUCT HEIGHT	405 mm
PRODUCT WIDTH	250 mm
PRODUCT WEIGHT	5.5 kg
CERTIFICATIONS	IEC/EN 60 947-3



Powering Business Worldwide

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Electrical rating

RATED OPERATIONAL CURRENT (IE)	26 A at DC-PV1 10 A at DC-PV2
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	1000 V
RATED UNINTERRUPTED CURRENT (IU)	30 A
RESISTANCE	7 mΩ (internal)

Contacts

NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1

Features & functions

ACTUATOR TYPE	Turn button
ENCLOSURE MATERIAL	Plastic
FEATURES	Complete device in housing
FITTED WITH:	Retraction in 0-position 0 (off) position
NUMBER OF POLES	Two-pole

General information

APPLICATION	• Residential buildings
	• Utility buildings

CONNECTION TYPE	M12, Inputs M12, Outputs
-----------------	-----------------------------

DEGREE OF PROTECTION	IP65
----------------------	------

DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA Other
-----------------------------------	--------------------

LIFESPAN, ELECTRICAL	1,500 Operations
----------------------	------------------

LIFESPAN, MECHANICAL	100,000 Operations
----------------------	--------------------

MODEL	On/Off switch
-------	---------------

OPERATING FREQUENCY	120 Operations/h
---------------------	------------------

OVERVOLTAGE CATEGORY	III
----------------------	-----

POLLUTION DEGREE	3
------------------	---

PRODUCT CATEGORY	• Fireman's Switch
	• Switchgear for photovoltaic systems

RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V
--	--------

SUITABLE FOR	Ground mounting
--------------	-----------------

UTILIZATION CATEGORY	DC-21 A
	DC-PV1 (EN 60947-3)
	DC-PV2 (EN 60947-3)

Short-circuit rating

RATED SHORT-CIRCUIT MAKING CAPACITY (ICM)	0.32 kA (up to 440 V, 50/60 Hz)
---	---------------------------------

RATED SHORT-TIME WITHSTAND CURRENT (ICW)	0.36 kA
--	---------

Resources

CATALOGUES	eaton-feuerwehrschaalter-das-große-plus-an-sicherheit.pdf
CHARACTERISTIC CURVE	eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing-007.eps eaton-manual-motor-starters-sol30-fireman's-switch-dimensions-002.eps eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing-004.eps eaton-motorstarters-undervoltage-sol30-fireman's-switch-characteristic-curve.eps
DECLARATIONS OF CONFORMITY	eaton-fireman-s-switch-declaration-of-conformity-uk251265en.pdf eaton-fireman-s-switch-declaration-of-conformity-eu250782en.pdf
ECAD MODEL	DA-CE-ETN.SOL30X3-SAFETY-MV-U(230V50HZ)
INSTALLATION INSTRUCTIONS	eaton-multi-way-fireman-switch-sol30x-safety-il03402053z.pdf
MCAD MODEL	sol30x3_safety_mv_u.stp eaton-cam-switches-mcad-drawings-sol30x3-safety-mv-u.dwg

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2026 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

