

Specifications



Eaton 120915

Eaton Moeller® series SOL20 Switch-disconnector, DC current, 20A, 2 strings MC4

General specifications

PRODUCT NAME	Eaton Moeller® series P-SOL Switch-disconnector
CATALOG NUMBER	120915
MODEL CODE	SOL20/2MC4
EAN	4015081187454
PRODUCT LENGTH/DEPTH	234 mm
PRODUCT HEIGHT	130 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.888 kg
CERTIFICATIONS	IEC/EN 60947-3
CATALOG NOTES	MC4 connector (Stäubli)



Powering Business Worldwide

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	60 °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

Contacts

NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
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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.
10.2.3.1 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.
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

RATED OPERATIONAL CURRENT (IE) AT DC-21A	20 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	1000 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MIN	1000 V
RATED UNINTERRUPTED CURRENT (IU)	20 A
RESISTANCE	8 mΩ (internal)

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.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.

Features & functions

ACTUATOR COLOR	Black
ACTUATOR TYPE	Toggle
DESIGN	Enclosed
FEATURES	Isolating characteristics
FITTED WITH:	Voltage release optional
LOCKING FACILITY	Lockable in the 0 (Off) position
NUMBER OF POLES	Two-pole

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

General information

CONNECTION TYPE	MC4, Outputs MC4, Inputs
DEGREE OF PROTECTION	NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP65
LIFESPAN, ELECTRICAL	1,500 Operations
LIFESPAN, MECHANICAL	100,000 Operations
MOUNTING POSITION	As required
OPERATING FREQUENCY	120 Operations/h
PRODUCT CATEGORY	Switchgear for photovoltaic systems
PROTECTION CLASS	2
SUITABLE FOR	Ground mounting Floor mounting

Resources

CATALOGUES	Brochure - SOL30-Safety. How to use renewables in a meaningful and efficient manner Product Range Catalog Switching and protecting motors
CHARACTERISTIC CURVE	eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing-002.eps eaton-manual-motor-starters-sol30-fireman's-switch-3d-drawing.eps

DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-eu250781en.pdf eaton-switch-disconnector-declaration-of-conformity-uk251264en.pdf
DRAWINGS	eaton-manual-motor-starters-switch-disconnector-dimensions-002.eps
ECAD MODEL	ETN.SOL20_2MC4
INSTALLATION INSTRUCTIONS	eaton-enclosed-dc-disconnector-il008036zu.pdf
MCAD MODEL	eaton-switch-disconnector-mcad-drawings-sol20-2mc4.dwg DA-CS-sol20_2mc4

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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