Specifications



Eaton 120936

Eaton Moeller® series P-SOL Switch-disconnector, DC current, 63 A at 1000 V DC

General specifications	
PRODUCT NAME	Eaton Moeller® series P-SOL Switch-disconnector
CATALOG NUMBER	120936
MODEL CODE	P-SOL60
EAN	4015081187669
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	140 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	0.994 kg
CERTIFICATIONS	CE IEC/EN 60947-3

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0

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.
10.2.4 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 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.

Electrical rating

RATED UNINTERRUPTED CURRENT (IU)	63 A
RESISTANCE	3 mΩ (internal)

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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	3.97 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	60 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Features & functions

ACTUATOR COLOR	Black
ACTUATOR TYPE	Turn button
DESIGN	Open
FEATURES	Isolating characteristics
FITTED WITH:	Voltage release optional
LOCKING FACILITY	Yes, optional
NUMBER OF POLES	Two-pole

General information

DEGREE OF PROTECTION	NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP20
LIFESPAN, ELECTRICAL	1,500 Operations
LIFESPAN, MECHANICAL	30,000 Operations
MOUNTING METHOD	Top-hat rail fixing (according to IEC/EN 60715, 35 mm)
MOUNTING POSITION	As required
OPERATING FREQUENCY	120 Operations/h
PRODUCT CATEGORY	Switchgear for photovoltaic systems
PROTECTION CLASS	2
SUITABLE FOR	Distribution board installation Ground mounting Floor mounting Main switch Maintenance / service switch Safety switch

Short-circuit rating

RATED SHORT-CIRCUIT MAKING CAPACITY (ICM)	0.6 kA (up to 1000 V DC)
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	1.5 kA

Terminal capacities

SCREW SIZE	2 x M4 x 18, 30 x 130 mm, Mounting Screw
TERMINAL CAPACITY	1 x (1 - 35) mm², flexible with ferrule to DIN 46228 14 - 2 AWG, solid or stranded 2 x (1 - 35) mm², flexible with ferrule to DIN 46228

Resources

CATALOGUES	Brochure - SOL30-Safety. How to use renewables in a meaningful and efficient manner
DECLARATIONS OF CONFORMITY	eaton-switch-disconnector-declaration-of-conformity-eu250781en.pdf eaton-switch-disconnector-declaration-of-conformity-uk251264en.pdf
DRAWINGS	eaton-contactors-mounting-pkz-sol-string-circuit-breaker-dimensions.eps eaton-manual-motor-starters-pkzm4-dimensions.eps eaton-manual-motor-starters-p-sol-switch-disconnector-3d-drawing-002.eps
ECAD MODEL	ETN.P-SOL60
INSTALLATION INSTRUCTIONS	IL03801005Z
MCAD MODEL	DA-CS-pkzm4 eaton-breakers-mcad-drawings-pkzm4.dwg

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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