DATASHEET - P-SOL60

Switch-disconnector, DC current, 60A

Part no.	P-SOL60
	120936
EL Number	4300315
(Norway)	



(NOrway) General specifications	
Product name	Eaton Moeller® series P-SOL Switch-disconnector
Part no.	P-SOL60
EAN	4015081187669
Product Length/Depth	140 millimetre
Product height	160 millimetre
Product width	55 millimetre
Product weight	0.994 kilogram
Certifications	UL Recognized IEC60439-1 UL Category Control No.: NRNT2 CSA File No.: 165628 UL 508 CSA-C22.2 No. 14-10 CSA UL File No.: E338590 TÜV-certified CSA Class No.: 3211-05 IEC/EN 60947-3 CE CSA
Product Tradename	P-SOL
Product Type	Switch-disconnector
Product Sub Type	None
Features & Functions	
Actuator color	Black
Actuator type	Turn button
Design	Open
Features	Isolating characteristics
Fitted with:	Voltage release 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
Protection class	2
Suitable for	Distribution board installation Ground mounting SCCR: 10 kA (600 V DC, 70 A max. fuse), (UL/CSA)
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
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
Screw size	2 x M4 x 18, 30 x 130 mm, Mounting Screw
Electrical rating	

Rated operational current (Ie) at DC-21A	60 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
Rated uninterrupted current (lu)	63 A
Resistance	3 mΩ (internal)
Short-circuit rating	
Rated conditional short-circuit current (Iq)	0 kA
Rated short-circuit making capacity (Icm)	
	0.6 kA (up to 440 V, 50/60 Hz)
Rated short-time withstand current (Icw)	1.5 kA
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	
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
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.
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.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])			
Version as main switch		No	
Version as maintenance-/service switch		No	
Version as safety switch		No	
Version as emergency stop installation		No	
Version as reversing switch		No	
Number of switches		1	
Max. rated operation voltage Ue AC	V		
Rated operating voltage	V	690 - 690	

Rated permanent current lu	А	63
Rated permanent current at AC-23, 400 V	А	0
Rated permanent current at AC-21, 400 V	Α	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	1.5
Rated operation power at AC-23, 400 V	kW	0
Switching power at 400 V	kW	63
Conditioned rated short-circuit current Iq	kA	0
Number of poles		2
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		Yes
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		No
Colour control element		Black
Type of control element		Turn button
Interlockable		No
Type of electrical connection of main circuit		Frame clamp
With pre-assembled cabling		No
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other
Width	mm	55
Height	mm	160
Depth	mm	140
Width in number of modular spacings		