

Part no. Article no.

Catalog No.

P-SOL30 120935 P-SOL30



Delivery programme

		Switchgear for photovoltaic systems
		DC switch-disconnectors
Ue	V	1000
		2
		2 pole
l _e	А	30
		open
l _e	А	30
		2 pole
U _e	V	1000
		yes
		IEC/EN 60 947-3 UL-508, TÜV-certified
Operations		100000
	Operation	n\$0000
	Ops/h	120
		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
	°C	-25 - +60
		As required
		58
		93
	11111	76
		35 mm
	kg	0.32
	mm ²	1 x (1 - 6) 2 x (1 - 6)
	AWG	18 - 14
I _{cw}	kA	0.36
I _{cm}	kA	0.32
	mΩ	5
	Ie Ue Ue Operations	Ie A Ie A Ie A Ue V Operations Operation Operations Operation Ie Manual Arrows Operations Manual Arrows Ie Manual Arrows I

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	30
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	4.5
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			

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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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 6.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

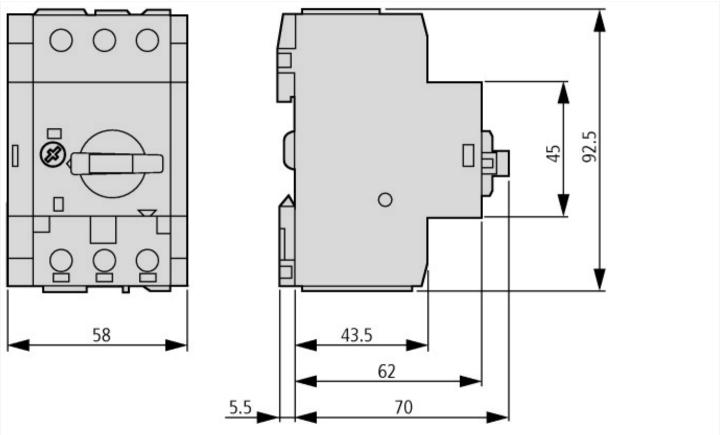
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 [AKF060010])			
Version as main switch		No	
Version as maintenance-/service switch		No	
Version as safety switch		No	
Version as emergency stop installation		No	
Version as reversing switch		No	
Max. rated operation voltage Ue AC	V	0	
Rated operating voltage	V	1000 - 1000	
Rated permanent current lu	А	30	
Rated permanent current at AC-21, 400 V	А	0	
Rated operation power at AC-3, 400 V	kW	0	
Rated short-time withstand current lcw	kA	0.36	
Rated operation power at AC-23, 400 V	kW	0	
Switching power at 400 V	kW	30	
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 ground mounting		Yes	
Suitable for front mounting 4-hole		No	
Suitable for front mounting center		No	
Suitable for distribution board installation		Yes	

Suitable for intermediate mounting	Yes
Colour control element	Black
Type of control element	Turn button
Interlockable	No
Type of electrical connection of main circuit	Clamp bracket
Degree of protection (IP), front side	IP20
Annrovals	

Approvals

North America Certification	Request filed for UL and CSA
Specially designed for North America	No

Dimensions



Additional product information (links)

Motor starters and "Special Purpose Ratings" for the North American market

Busbar Component Adapters for modern Industrial control panels

http://www.moeller.net/binary/ver_techpapers/ver953en.pdf

http://www.moeller.net/binary/ver_techpapers/ver960en.pdf