Switch-disconnector, DC current, 20A

Powering Business Worldwide

P-S0L20 Part no. Catalog No. 120934 **Alternate Catalog** P-SOL20

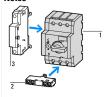
EL-Nummer 4300323

(Norway)

Delivery program

Product range			Switchgear for photovoltaic systems
Subrange			DC switch-disconnectors
Rated operational voltage	U _e	V	1000
Protection class			2
Number of conductors			2 pole
Rated operational current at DC-21A	I _e	Α	20
Rated operational current at DC-PV1	l _e	Α	20
Rated operational current at DC-PV2	l _e	Α	10
Design			open

Notes



Accessories 2 Hilfsschalter NHI-E 3 Arbeitsstromauslöser A-PKZ0 3 Unterspannungsauslöser U-PKZ0

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Technical data

Rated operational current at DC-21A	I _e	Α	20
Rated operational current at DC-PV1	l _e	Α	20
Rated operational current at DC-PV2	l _e	Α	10
Number of poles			2 pole
Rated operational voltage	U _e	V	1000
Isolating characteristics			yes
Standards			IEC/EN 60947-3
Lifespan, mechanical	Operations		100000
Electrical		Operation	nd 500
Max. operating frequency		Ops/h	120
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +60

Open	°C	-25 - +60
Mounting position		As required

Dimensions

Width	mm 58	
Height	mm 93	
Depth	mm 76	

Top-hat rail			35 mm
Weight	k	kg	0.32

Terminal canacities

Terminal capacities			
Flexible with ferrule		mm ²	1 x (1 - 6) 2 x (1 - 6)
Solid or stranded		AWG	18 - 14
Rated short-time withstand current (t=1s)	I _{cw}	kA	0.36

up to 440 V 50/60 Hz	I _{cm}	kA	0.32
Internal resistance		mΩ	6

Design verification as per IEC/EN 61439

200.9			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0.8
Equipment heat dissipation, current-dependent	P _{vid}	W	2.4
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 8.0

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@ss10.0.1-27-37-14-03 [AKF060013])

[AKF060013])		
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	1000
Rated operating voltage	V	1000 - 1000
Rated permanent current lu	Α	20
Rated permanent current at AC-23, 400 V	Α	0
Rated permanent current at AC-21, 400 V	Α	0

Rated operation power at AC-3, 400 V	
Rated operation power at AC-23, 400 V kW 0 Switching power at 400 V kW 20	
Switching power at 400 V kW 20	
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 d	levice 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 butto	on
Interlockable	
Type of electrical connection of main circuit Clamp bro	acket
Degree of protection (IP), front side	
Degree of protection (NEMA) Other	