## **DATASHEET - PKZ-SOL30**



## String circuit-breaker, DC current, 2p, 30A

PKZ-SOL30 Part no. Catalog No. 120939 **Alternate Catalog** PKZ-SOL30

**EL-Nummer** 4300318

(Norway)



### **Delivery program**

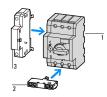
Product range			Switchgear for photovoltaic systems
Subrange			String circuit-breakers
Product range			String circuit-breakers
Application field			Utility buildings Open areas
Rated operational voltage	U <sub>e</sub>	V	900
Protection class			2
Number of conductors			2 pole
Rated operational current at DC-21A	Ie	Α	30
Admissible short-circuit current for solar modules	I <sub>SC</sub>	Α	5-9A
Setting range			
Overload releases			
Overload release max.		Α	30
Design			open

### Notes



### Accessories

- 2 auxiliary contacts NHI-E 3 shunt releases A-PKZ0
- 3 undervoltage releases U-PKZ0



- Page → 082882 → 073187 → 073135

### **Technical data**

Rated operational current at DC-21A	I <sub>e</sub>	Α	30
Number of poles			2 pole
Rated operational voltage	U <sub>e</sub>	V	900
Thermal trip			1.05 - 1.3 x l <sub>e</sub>
Electromagnetic trip block			6 x I <sub>e</sub>
Standards			IEC/EN 60947-2 TÜV-certified
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

## **Ambient temperature**

Open	°C	-25 - +60
Mounting position		
Dimensions		
NAC dela		F0

Width	mm	58
Height	mm	93
Depth	mm	76

Top-hat rail		35 mm
Weight	kg	0.32
Terminal capacities		
Flexible with ferrule	mm <sup>2</sup>	1 x (1 - 6) 2 x (1 - 6)
ein- oder mehrdrähtig	AWG	18 - 14
Internal resistance	mΩ	7

## Design verification as per IEC/EN 61439

Design vermeation as per 120/214 01405				
Technical data for design verification				
Rated operational current for specified heat dissipation	In	Α	30	
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	2.1	
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	6.3	
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0	
Heat dissipation capacity	P <sub>diss</sub>	W	0	
Operating ambient temperature min.	uiss	°C	-25	
Operating ambient temperature max.		°C	60	
IEC/EN 61439 design verification		J		
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			Meets the product standard's requirements.	
and fire due to internal electric effects				
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 7.0**

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])

F		
Rated permanent current lu	Α	30
Rated voltage	V	900 - 900
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	0
Overload release current setting	Α	23 - 30
Adjustment range short-term delayed short-circuit release	Α	0 - 0
Adjustment range undelayed short-circuit release	А	180 - 180

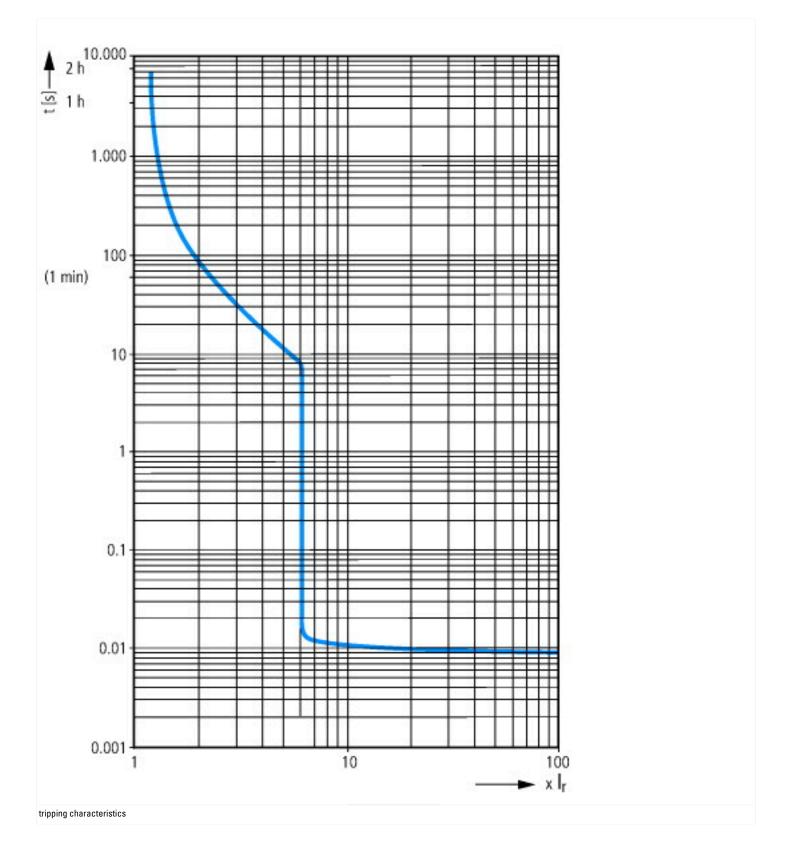
Integrated earth fault protection	No
Type of electrical connection of main circuit	Screw connection
Device construction	Built-in device fixed built-in technique
Suitable for DIN rail (top hat rail) mounting	Yes
DIN rail (top hat rail) mounting optional	Yes
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	0
With switched-off indicator	No
With under voltage release	No
Number of poles	2
Position of connection for main current circuit	Other
Type of control element	Turn button
Complete device with protection unit	Yes
Motor drive integrated	No
Motor drive optional	No
Degree of protection (IP)	IP00

## Approvals

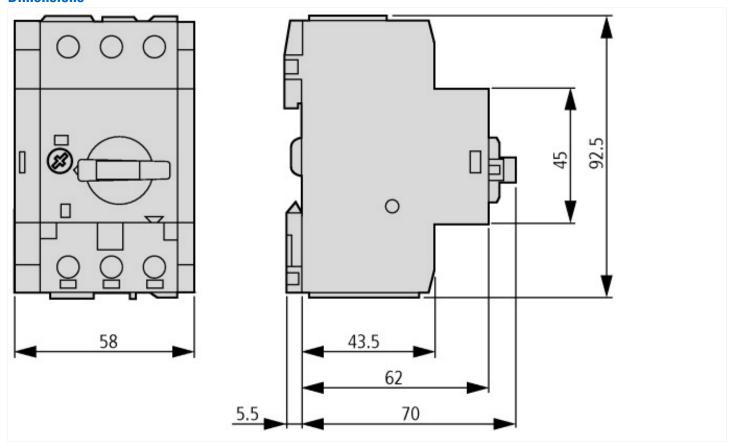
Specially designed for North America		No	
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## Characteristics

Characteristic curves			
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# **Dimensions**



## **Assets (links)**

**Declaration of CE Conformity** 

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**Instruction Leaflets** 

IL03402020Z2018\_06