

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

Part no. PKZ-SOL30
Article no. 120939
Catalog No. PKZ-SOL30

Powering Business Worldwide

Delivery programme

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_e	V	900
Protection class			2
Number of conductors			2 pole
Rated operational current 240 V	I_e	A	30

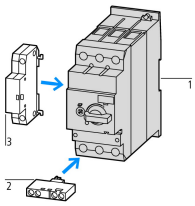
Setting range

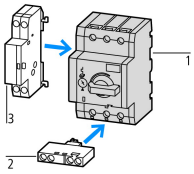
Short-circuit releases 	I_{rm}	A	15 - 22
Design			open

Notes

[1] Availability from July 2010

Notes





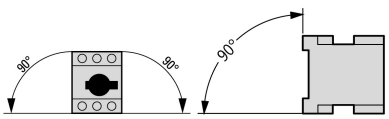
Accessories
2 auxiliary contacts NHI-E
3 shunt releases A-PKZ0
3 undervoltage releases U-PKZ0

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Technical data

Rated operational current 240 V	I_e	A	30
Pole			2 pole
Rated operational voltage	U_e	V	900
Thermal trip			1.05 - 1.3 x I_e
Electromagnetic trip block			6 x I_e
Standards			IEC/EN 60 947-2 UL-508, 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

Width		mm	58
Height		mm	93
Depth		mm	76

Top-hat rail			35 mm
Weight		kg	0.32

Terminal capacities

Flexible with ferrule		mm^2	1 x (1 - 6) 2 x (1 - 6)
Solid or stranded		AWG	18 - 14
Internal resistance		mΩ	7

Data for design verification according to IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	30
Equipment heat dissipation, current-dependent	P_{vid}	W	6.3
Heat dissipation capacity	P_{diss}	W	0
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 5.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation prot. (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@ss8-27-37-04-09 [AJZ716009])

Rated permanent current Iu		A	30
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz		kA	0
Setting range overload protector		A	39 - 39
Adjustment range short-term delayed short-circuit release		A	0 - 0
Adjustment range undelayed short-circuit release		A	180 - 180
Integrated earth fault protection			No
Connection type main current circuit			Clamp bracket
Device construction			Built-in device fixed built-in technique
Suitable for DIN rail (top hat rail) mounting			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
Switched-off indicator available			No

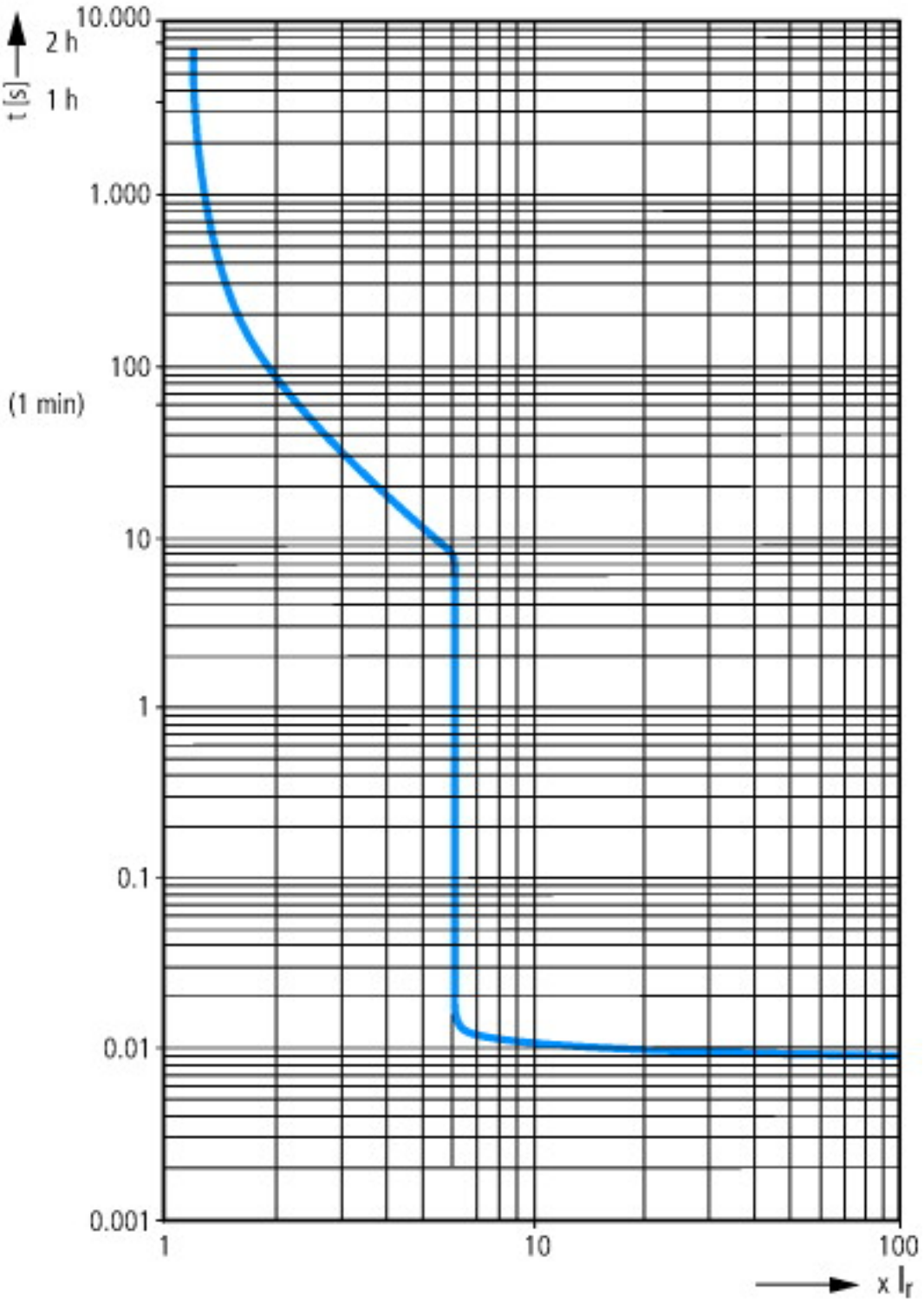
With under voltage release	No
Number of poles	2
Position of connection for main current circuit	Front connection
Type of control element	Turn button (knob)
Motor drive optional	No
Motor drive integrated	No
Degree of protection (IP)	IP00

Approvals

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

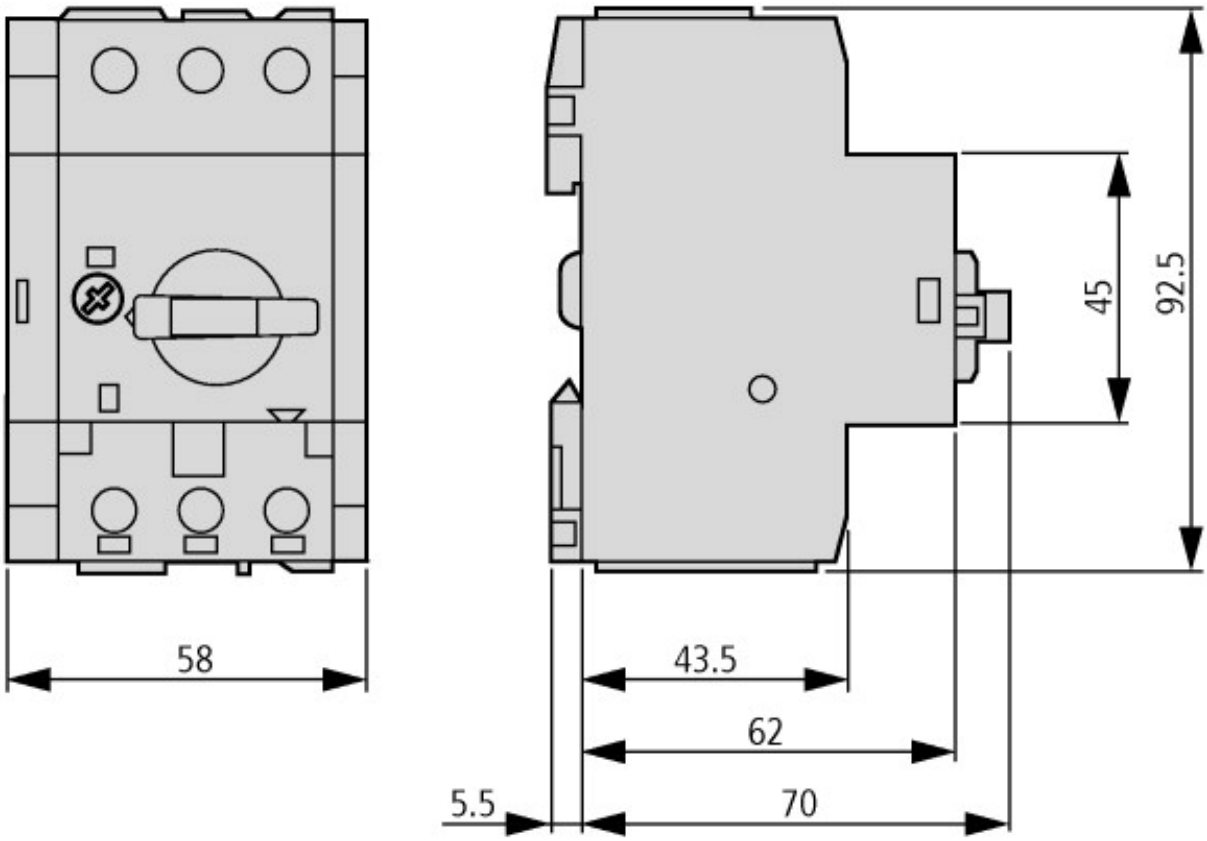
Characteristics

Characteristic curves	



tripping characteristics

Dimensions



Additional product information (links)

Motor starters and "Special Purpose Ratings" for the North American market	http://www.moeller.net/binary/ver_techpapers/ver953en.pdf
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf

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