



String circuit-breaker, DC current, 2p, 20A

Part no. PKZ-SOL20
Article no. 120938
Catalog No. PKZ-SOL20

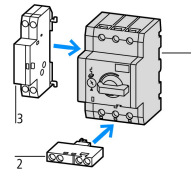
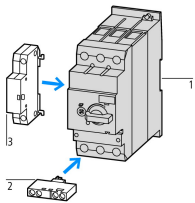
Delivery program

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_e	V	900
Protection class			2
Number of conductors			2 pole
Rated operational current 240 V	I_e	A	20
Setting range			
Short-circuit releases	I_{rm}	A	9 - 15
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	20
Number of poles			2 pole
Rated operational voltage	U_e	V	900
Thermal trip			$1.05 - 1.3 \times I_e$
Electromagnetic trip block			$6 \times I_e$
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	12

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	4.8
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) / 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@ss8.1-27-37-04-09 [AJZ716010])			
Rated permanent current I _u	A		20
Rated voltage	V		900 - 900
Rated short-circuit breaking capacity I _{cu} at 400 V, 50 Hz	kA		0
Overload release current setting	A		26 - 26
Adjustment range short-term delayed short-circuit release	A		0 - 0
Adjustment range undelayed short-circuit release	A		120 - 120
Integrated earth fault protection			No
Type of electrical connection of main circuit			Clamp bracket
Device construction			Built-in device fixed built-in technique

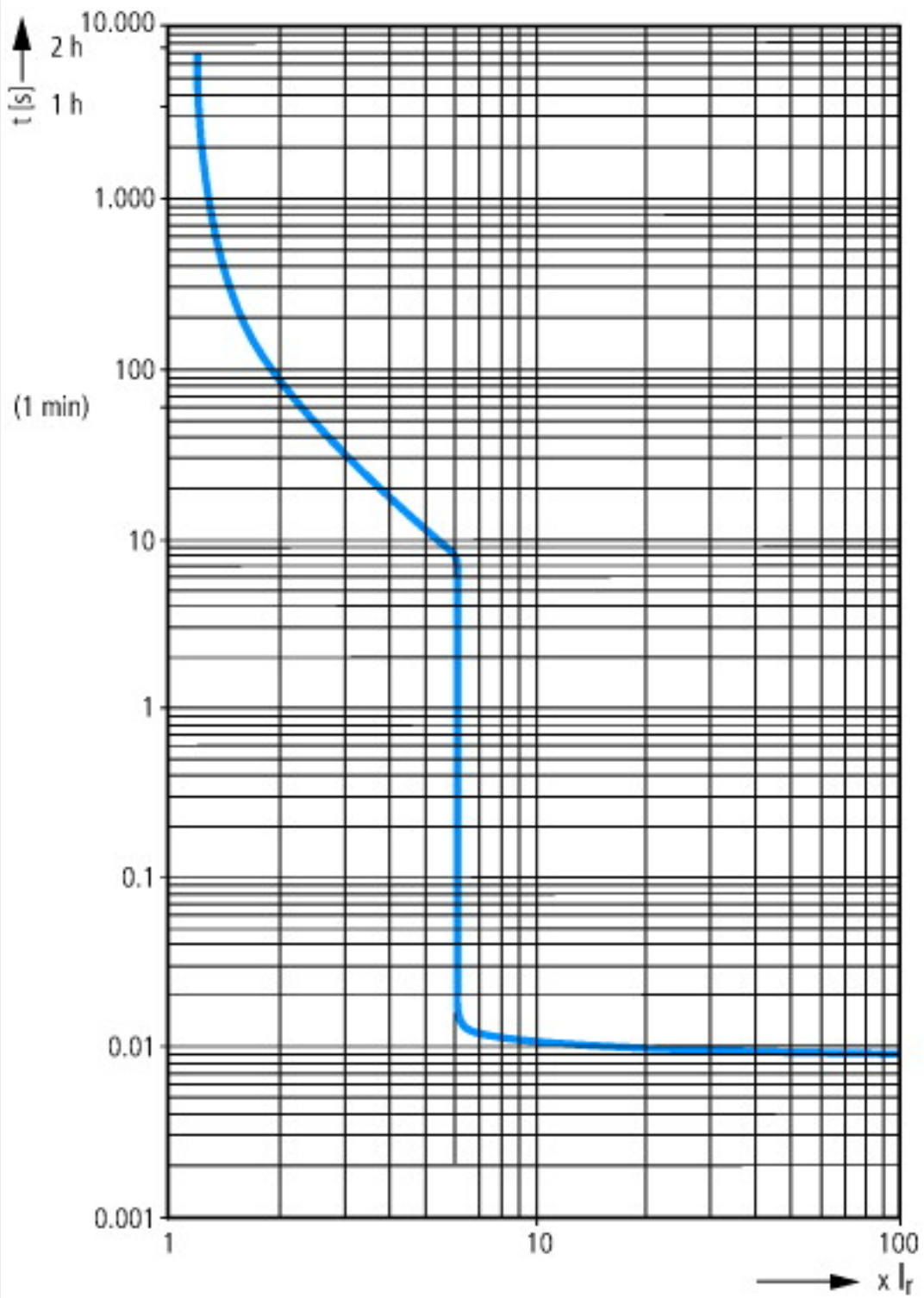
Suitable for DIN rail (top hat rail) mounting			Yes
DIN rail (top hat rail) mounting optional			Yes
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Switched-off indicator available			No
With under voltage release			No
Number of poles			2
Position of connection for main current circuit			-
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

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

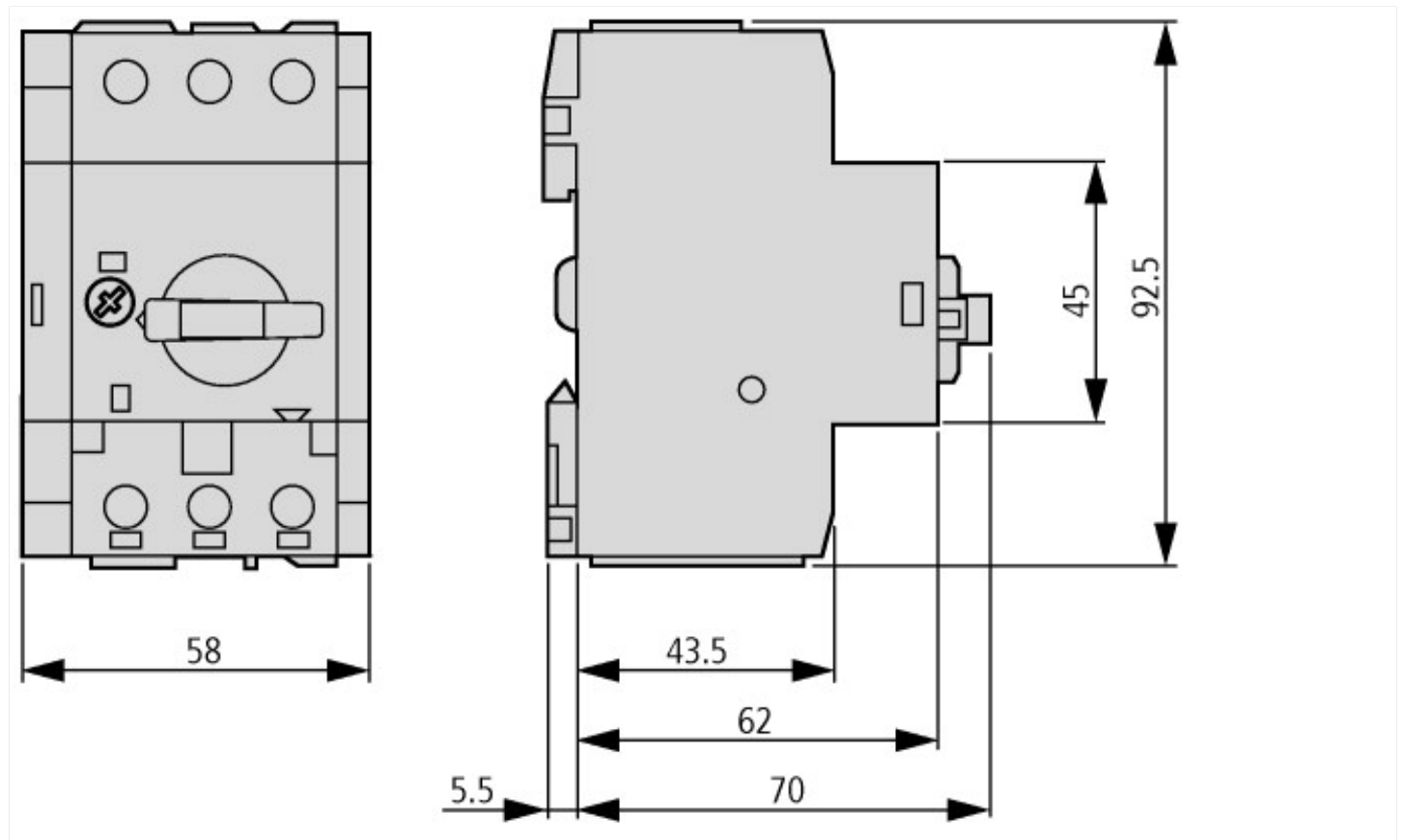
Characteristics

Characteristic curves			
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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