











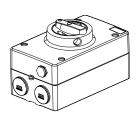


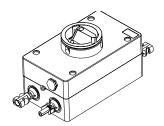


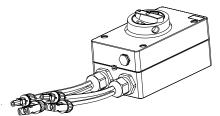
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Technical Specifications			
Туре	SE030C, SE030D, SE030F, SE042F, SE042D, SE042I, SE030N, SE030M		
Function	Isolator, Control		
Standard	IEC60947-3, AS60947.3		
Utilization category	DC-PV2 / DC-21B		
Pole	4P		
Rated frequency	DC		
Rated operational voltage (U _e)	600V, 800V, 1000V, 1200V		
Rated operational current (U _e)	See the next page		
Rated insulation voltage (U _i)	1200V		
Conventional free air thermal current (I _{th})	II		
Conventional enclosed thermal current (I _{th})	Same as I _e		
Rated short-time withstand current (I _{cw})	1kA,1s		
Rated short-time making capacity (I _{cm})	1.7kA		
Rated conditional short-circuit current (I _{cn})	3kA		
Rated impulsed withstand voltage (U _{imp})	8.0kV		
Cable UV Rating	HD 605/A1 (Genuine MC4 Leads : SE042F, SE042I)		
	EN50289-4-17 (SE042D)		
Overvoltage category	II		
Suitability for isolation	Yes		
Polarity	No polarity, "+" and "-" polarities could be interchanged.		
Mechanical	15000		
Electrical	1000		
Ingress Protection Enclosure	IP66		
Ingress Protection Switch body	IP20		
Storage Temperature	-5°C ~ +85°C		
Mounting Type	Isolator can be can be mounted in any plane		
Pollution degree	3		
Suitable environment	Outdoor / Indoor		



Breathing Valve







PGK DC Isolator positioning of condensation breathing/pressure equalization valve.

Identification		Rating Data		
Switch, unenclosed - catalogue number (with DC-PV2 rating)	SE030N, SE030M			
Specific dedicated individual enclosure - catalogue number (with minimum IP56NW rating)	SE030C IP66NW			
Assembly of switch and specific dedicated individual enclosure - catalogue number	SE030C, SE030D, SE030F, SE042F, SE042D, SE042I			
I _{th} rated thermal current, unenclosed, at 40°C shade ambient air temperature	32 amps			
I _{the} rated thermal current, indoors, at 40°C shade ambient air temperature, in a specific dedicated enclosure	32 amps			
I _{the} rated thermal current outdoors at 40°C shade ambient air temperature without solar effects in a specific dedicated enclosure rated IP66NW	32 amps			
I _{the} solar current value outdoors at 60°C shade ambient air temperature (see D.8.3.11, table D3), with solar effects in a specific dedicated enclosure rated IP66NW	re 29 amps			
	U _e rated operational voltage DC volts	I _e ; DCPV2 rated operational current Amps	I _(make) and I _{c(break)} DC-PV2 4 x I _e Amps	
2 Pole	≤600	13	52	
	800	9	36	
_1/_2/	1000	9	36	
	1200	9	36	
4 Pole	≤600	32	128	
	800	32	128	
1/2/3/4/_	1000	32	128	
	1200	32	128	



Wiring Diagram for Rated operational voltage Ue (V) & Rated operational current le (A)

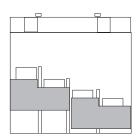
Contacts Wiring Diagram	300V	600V	800V	1000V	1200V	Poles in Series	Number of Strings	Type Number
1 3 5 7	32A	13A	9A	9A	9A	2	2	4
1 3 5 7	32A	32A	32A	32A	32A	4	1	4B

Switching Configurations

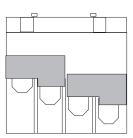
Туре	4-Pole	4-Pole with Input and Output Bottom		
/	4	4B		
Contacts Wiring Graph	1 3 5 7 1 1 2 4 6 8	1 3 5 7		
Switching Example	+ - + -			

Bridging links installation

Installed Incorrectly



Installed Correctly

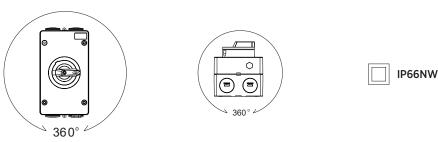


WARNING: Verify that all connections (including bridging link connections) are suitable for the rated current. Ensure only conductive parts are clamped and tightened to the manufacturers required torque before energization.



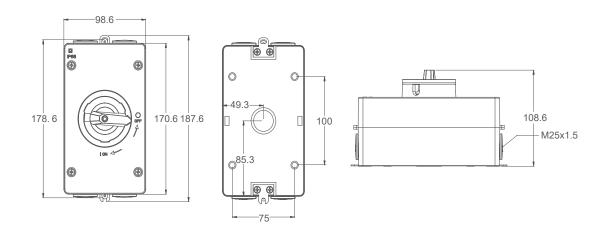
Terminals/Connection			
Туре	SE030C, SE030D, SE030F, SE042D, SE042F, SE042I, SE030N, SE030M		
Number of poles	4-pole		
Terminal designation, main circuit	1; 3; 5; 2; 4; 6; 7; 8		
Type of terminal, main circuit	Screw terminal		
Rated cross sectional area, main circuit	4.0-16mm²		
	4-16mm² (Rigid: Solid or Stranded)		
Type of conductor	4-10mm² (Flexible)		
Number of conductors per terminal	1		
Required preaparation of the conductor	Yes		
Stripping length (mm), main circuit	8mm		
Tiebbering berner (MAA) and in singuit	Min: 1.2Nm		
Tightening torque (M4), main circuit	Max: 1.8Nm		

IP Rating



PGK DC Isolator can be can be mounted in any plane Note: The isolator must be protected from direct exposure to sun and rain as per the CEC guidlines

Dimensions (mm)





Pole Rating: Data from AS60947-3: 2018

Main Contacts		Туре		Appendix B5
Rated Thermal current I _{the} Rated Insulator Voltage U _i Distance of contacts (per pole)		A V mm	32 1000 8	Making & Breaking 5X operations
Rated Operational Current le (DC-PV2)				
1 pole	300V	А	25	100
1	400V	А	10	40
	500V	А	8	32
	600V	А	8	32
1/	800V	А	3	12
	1000V	А	2	8
4 pole	500V	А	32	128
2 pole in series 4	600V	А	32	128
	700V	А	13	52
	800V	А	13	52
	900V	А	9	36
	1000V	А	9	36
	_ 1200V	А	9	36
2 pole 4 pole in series 4B	500V	A	32	128
	600V	А	32	128
	800V	А	32	128
	800V	А	32	128
	900V	А	32	32
	1000V	А	32	32
_1/_2/_3/_4/_	_ 1200V	А	32	32

Please Note

Please consult with your Electrician/Engineer to ensure suitability for the intended application and installation.

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