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SE030A, SE030B, SE030E, SE042B, SE042E 1000V DC Isolator 32A

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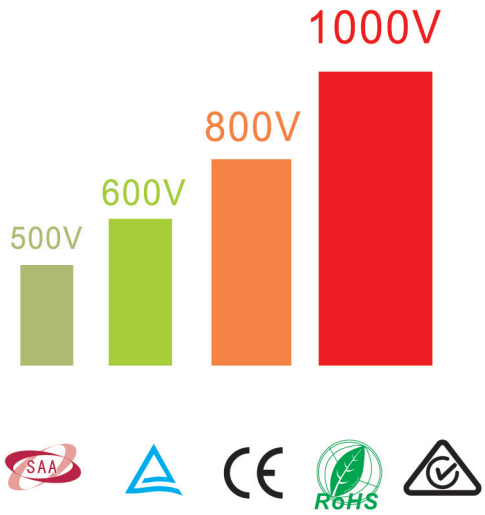

Technical Specifications	
Type	SE030A, SE030B, SE030E, SE042B, SE042E
Function	Isolator, Control
Standard	IEC60947-3, AS60947.3
Utilization category	DC-PV2 / DC-21B
Pole	4P
Rated frequency	DC
Rated operational voltage (U_e)	500V, 600V, 800V, 1000V
Rated operational current (U_e)	See the next page
Rated 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 (4, 4S,4B); 1.7kA, 1s (2H)
Rated short-time making capacity (I_{cm})	1.7kA,1s (4, 4S,4B); 3kA, 1s (2H)
Rated conditional short-circuit current (I_{cn})	3kA
Rated impulsed withstand voltage (U_{imp})	8.0kV
Overvoltage category	II
Suitability for isolation	Yes
Polarity	No polarity, “+” and “-” polarities could be interchanged.
Mechanical	20000
Electrical	2000
Ingress Protection Enclosure	IP66
Ingress Protection Switch body	IP20
Storage Temperature	-5°C ~ +85°C
Mounting Type	Vertically or horizontally
Pollution degree	3
Suitable environment	Outdoor / Indoor

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Identification	Rating Data		
Switch, unenclosed — catalogue number with DC-PV2 rating)	SE030A		
Specific dedicated individual enclosure — catalogue number (with minimum IP56NW rating)	SE030A IP66NW		
Assembly of switch and specific dedicated individual enclosure — catalogue number	SE030A, SE030B, SE030E, SE042B, SE042E		
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 IP56NW	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 IP56NW	/		
	U_e rated operational voltage DC volts	I_e: DCPV2 rated operational current Amps	$I_{(make)}$ and $Ic_{(break)}$ DC-PV2 4 x I_e Amps
2 Pole (1/2/—)	≤500	32	128
	600	32	128
	800	32	128
	1000	13	52
4 Pole (1/2/3/4/—)	≤500	32	128
	600	32	128
	800	32	128
	1000	32	128

NOTE 1 The rating data in the table is example data, it is intended to be replaced by the relevant actual data.

NOTE 2 The ratings section of this table for U_e, I_e and $I_{(make)}$ and $Ic_{(break)}$ may have other number of poles or pole configurations than that shown, based on the test evidence obtained.

NOTE 3 The other data required in D.5.2.4 need not be in a table format.

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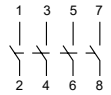
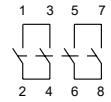
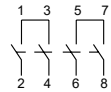
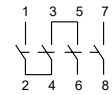
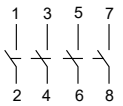
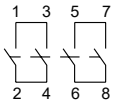
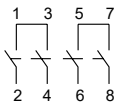
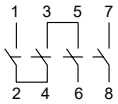
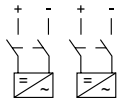
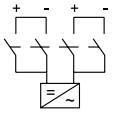
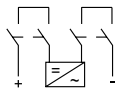
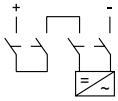
Wiring Diagram for Rated operational voltage Ue (V) & Rated operational current Ie (A)

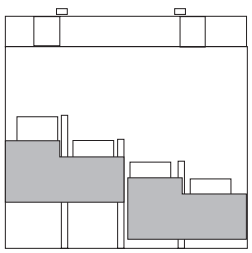
Contacts Wiring Diagram	500V	600V	800V	1000V	Poles in Series	Number of Strings	Type Number	Weight kg/ PCS
	32A	32A	32A	13A	2	2	4	0.70
	50A	50A	45A	13A	2	1	2H	0.70
	32A	32A	32A	32A	2	1	4B	0.70
	32A	32A	32A	32A	4	1	4S	0.70

Switching Configurations

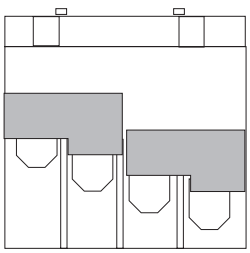
Type	4-pole	2-Pole 4 Parallelled Poles	4-Pole with Input and Output Bottom	4-Pole with Input on Top and Output Bottom
/	4	2H	4B	4S
Contacts Wiring Graph				
Switching Example				

Bridging links installation

Installed Incorrectly



Installed Correctly



Please note that all connections (including bridging link connections) should be tightened before energization.

SE030A, SE030B, SE030E, SE042B, SE042E 1000V DC Isolator 32A

Terminals/Connection	
Type	SE030A, SE030B, SE030E, SE042B, SE042E
Number of poles	4-pole
TTerminal designation, main circuit	1; 3; 5; 2; 4; 6; 7; 8
Type of terminal, main circuit	Screw terminal
Rated cross sectional area, main circuit	4.0-16mm^2
Type of conductor	Flexible or rigid
Number of conductors per terminal	1
Required preaparation of the conductor	Yes
Stripping length (mm), main circuit	8mm
Tightening torque (M4), main circuit	Min: 1.2Nm
	Max: 1.8Nm

Dimensions (mm)