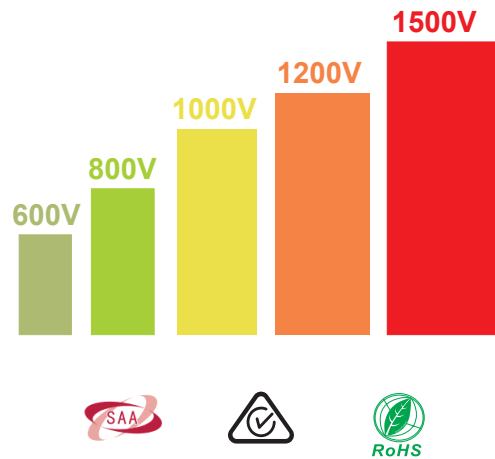


SE030K, SE030L 1500V DC Isolator 35A DIN Rail Mounting



Technical Specifications

Type	SE030L, SE030K
Function	Isolator, Control
Standard	IEC60947-3, AS60947.3
Utilization category	DC-PV2 / DC-21B
Pole	4P
Rated frequency	DC
Rated operational voltage (U_e)	300V, 600V, 1000V, 1200V, 1500V
Rated operational current (I_e)	See the next page
Rated insulation voltage (U_i)	1500V
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})	1.5kA, 1s
Rated short-time making capacity (I_{cm})	2kA
Rated conditional short-circuit current (I_{cn})	3kA
Rated impulsive withstand voltage (U_{imp})	8.0kV
Overvoltage category	II
Suitability for isolation	Yes
Polarity	No polarity, "+" and "-" polarities could be interchanged.
Mechanical	10000
Electrical	1000
Ingress Protection Enclosure	IP66 (SE030K), IP40 (SE030L)
Storage Temperature	-5°C - +85°C
Mounting Type	DIN Rail
Pollution degree	3
Suitable environment	Indoor

SE030K, SE030L 1500V DC Isolator 35A DIN Rail Mounting



Identification	Rating Data		
	Switch, unenclosed - catalogue number (with DC-PV2 rating)	SE030L, SE030K	
Specific dedicated individual enclosure - catalogue number (with minimum IP56NW rating)	SE030G IP66NW		
Assembly of switch and specific dedicated individual enclosure – catalogue number	SE030G		
I_{th} rated thermal current, unenclosed, at 40°C shade ambient air temperature	50 amps		
I_{the} rated thermal current, indoors, at 40°C shade ambient air temperature, in a specific dedicated enclosure	50 amps		
I_{the} rated thermal current outdoors at 40°C shade ambient air temperature without solar effects in a specific dedicated enclosure rated IP56NW	50 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	50 amp		
	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 (<u>1</u> / <u>2</u> / —)	≤300	50	200
	600	50	200
	1000	50	200
	1200	32	128
	1500	16	64
4 Pole (<u>1</u> / <u>2</u> / <u>3</u> / <u>4</u> / —)	≤300	50	200
	600	50	200
	1000	50	200
	1200	50	200
	1500	35	140

SE030K, SE030L 1500V DC Isolator 35A DIN Rail Mounting



Wiring Diagram for Rated operational voltage U_e (V) & Rated operational current I_e (A)

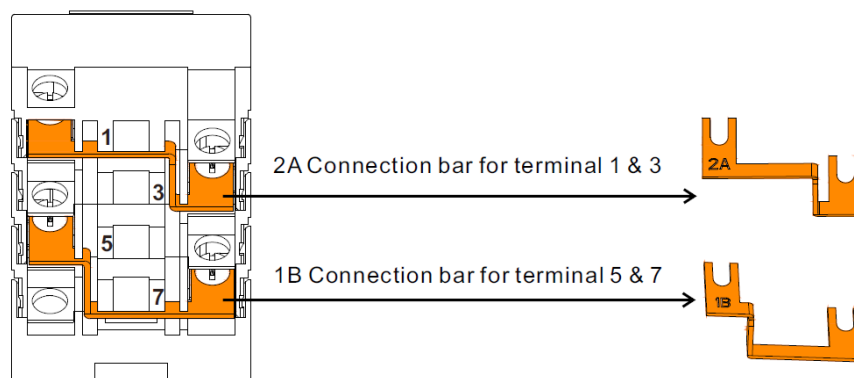
Contacts Wiring Diagram	600V	1000V	1200V	1500V	Poles in Series	Number of Strings	Type Number	Weight kg/PCS
	50A	50A	32A	16A	2	2	4	0.70
	50A	50A	50A	35A	4	1	4B	0.70

Switching Configurations

Type	4-Pole	4-Pole with Input and Output Bottom
/	4	4B
Contacts Wiring Graph		
Switching Example		

Bridging links installation

Installed correctly



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

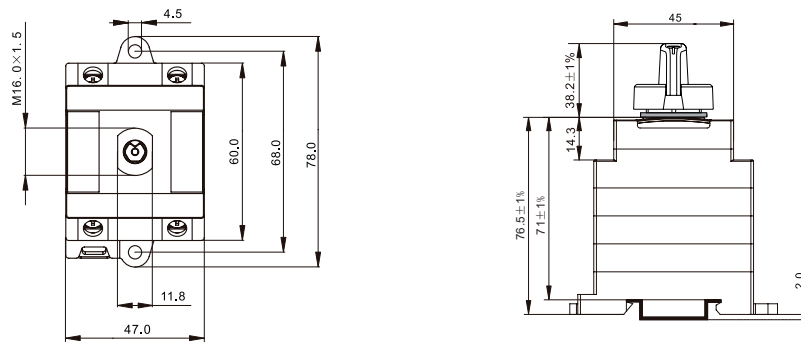
SE030K, SE030L 1500V DC Isolator 35A DIN Rail Mounting



Terminals/Connection	
Type	SE030L, SE030K
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	4.0-16mm ²
Type of conductor	4-16mm ² (Rigid: Solid or Stranded)
	4-10mm ² (Flexible)
Number of conductors per terminal	1
Required preparation of the conductor	Yes
Stripping length (mm), main circuit	8mm
Tightening torque (M4), main circuit	Min: 1.2Nm
	Max: 1.8Nm

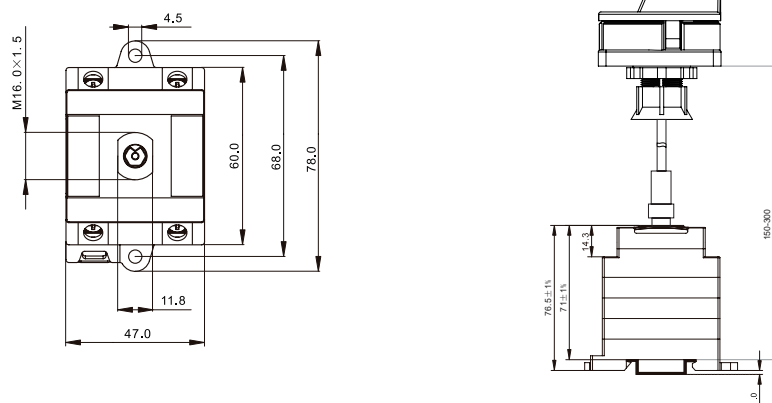
Dimensions (mm)

SE030L
DIN Rail Mounting
Lockable handle
IP40



The handle length can be custom made

SE030K
Base Mounting
(Door coupling)
Lockable handle
IP66



SE030K, SE030L 1500V DC Isolator 35A DIN Rail Mounting



Pole Rating: Data from AS60947-3: 2018

Main Contacts		Type		Appendix B5
Rated Thermal current I_{the}		A	32	Making & Breaking 5X operations
Rated Insulator Voltage U_i		V	1000	
Distance of contacts (per pole)		mm	8	
Rated Operational Current I_e (DC-PV2)				
1 pole 1	300V	A	25	100
	400V	A	10	40
	500V	A	8	32
	600V	A	8	32
	800V	A	3	12
	1000V	A	2	8
4 pole 2 pole in series 4	500V	A	50	200
	600V	A	50	200
	700V	A	50	200
	800V	A	50	200
	900V	A	50	200
	1000V	A	50	200
	1200V	A	25	100
2 pole 4 pole in series 4B	1500V	A	16	64
	500V	A	50	200
	600V	A	50	200
	800V	A	50	200
	800V	A	50	200
	900V	A	50	200
	1000V	A	50	200
1200V	A	50	200	
1500V	A	35	140	

Please Note:

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

PGK Distribution takes every precaution to ensure the information in this publication is correct but accepts no liability of any kind and reserves the right to change any detail in this catalogue without notification.

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