

ISOLATOR SWITCH HS27

Data Sheet V1.0



The HS27 isolator switches meets the demand of loading and isolating the circuit. It is used as a main switch in low voltage distribution systems. It is the best solution for disconnecting the circuit from the power supply, so that the circuit can be maintained without interrupting power to the rest of the system. It is easily to be assembled and comes in 2 pole and 4 pole in a limited space of 27mm (1.5 module) and 54mm (3 module), but with a high nominal current of 125A.

HS27 isolator switch

CE

UK
CA

CB

KEMA
EUR

RoHS

HS27 is a isolator switch compliant to product standard IEC/EN 60947 and with the following main technical features

- Isolator switch (IEC/EN 60947-3)
- 2 and 4 pole
- up to 125A
- AC-21A/B | AC22-A/B | AC23-A/B

Application benefits

- Supply possible from top and bottom
- cable connection up to 50mm² cables.
- Terminal cover with sealing possibility for operator safety
- Toggle can be sealable in ON-OFF positions true a position inside attribute
- Family feeling in the SEP PRO range modular components (width difference)

Isolator switch HS27

Technical Data



					HS27 – 2p		HS27 – 4p				
Type											
Standards					IEC/EN 60947-3						
Certification					CE, UKCA, CB, KEMA KEUR						
Country of origin					CN						
RoHS Compliance Status					Compliant, No Exemption						
Electrical features	Number of poles				2		4				
	Rated operational current				Ie	AC-21A/B		A	25, 40, 63, 80, 100, 125		
						AC-22A/B		A	25, 40, 63, 80, 100, 125		
						AC-23A/B		A	25, 40, 63, 80, 100, 125		
	Rated AC voltage				Ue	V AC		230/400V			
	Rated frequency						Hz		50 - 60		
	Insulation voltage				Ui	V		400V			
	Rated impulse withstand voltage				Uimp	kV		6			
	Dielectric test voltage at ind. freq. for 1 min.						kV		2.5		
	Rated short-circuit making capacity				Icm	kA		1.5			
	Rated short-circuit withstand (1s)				Icw	kA		1.5			
	Suitable for isolation						Yes				
	Overvoltage category						III				
	Pollution degree						3				
	Utilization category						AC-21A/B		■		
						AC-22A/B		■			
						AC-23A/B		■			
Mechanical features	Housing				Insulation group I - II, RAL 7035						
	Toggle				Insulation group II, RAL 5017						
	Contact position indication				Green / Red window						
	Electrical life				operations		≥ 1500				
	Mechanical life				operations		≥ 8500				
	Protection degree acc. to EN 60529				housing		IP4X				
					terminals		IP2X				
	Shock resistance acc. to IEC/EN 60068-2-27				25g - 2 shocks - 13ms						
	Vibration resistance acc. to IEC/EN 60068-2-6				5 g - 20 cycles at 5...150...5 Hz						
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30				°C/RH		28 cycles with 55°C/90-96% and 25°C/95-100%				
	Ambient temperature (with daily average ≤ +35 °C)				°C		-25... +70				
	Storage temperature				°C		-40... +70				

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				HS27 – 2p	HS27 – 4p
Installation	Type				lift / open-mouthed
	Terminal type	bottom / top			70/50
	Terminal size for cables	bottom / top	mm ²	10/16	
	Terminal size for PIN busbar	bottom / top	mm ²	1x2,5mm ² -50mm ²	
	Solid /stranded wiring				1x2,5mm ² -35mm ²
	Flexible wires with or without ferrules				2,5Nm
	Tightening torque	bottom / top			10mm
	Stripping length of the cable				on DIN rail EN 60715 (35mm) by means of mounting clip
	Mounting				Any
	Mounting position				Top / bottom terminals
	Supply from				
	Dimensions (H x W x D)	Height	mm	86	86
		Width	mm	27	54
		Depth	mm	77	77
Packing	Weight		kg	0,137	0,224
	Packing A	QTY		1	1
		Dimensions (H x W x D)	mm	93 x 28 x 82	93 x 56 x 76
		Weight	kg	0,16	0,32
	Packing B (x A)	QTY		10	5
		Dimensions (H x W x D)	mm	289 x 97 x 82	
		Weight	kg	1,6	
	Packing C (x B)	QTY		100	50
		Dimensions (H x W x D)	mm	500 x 298 x 180	
		Weight	kg	16	
	CN-code				85362010
Combination with auxiliary elements	Auxiliary contact				NA
	Signal contact / auxiliary contact				NA
	Shunt trip				NA
	Auxiliary contact for bottom fitting				NA
	Undervoltage release				NA
	Overvoltage release				NA
	Motor operating device				NA

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Technical Data

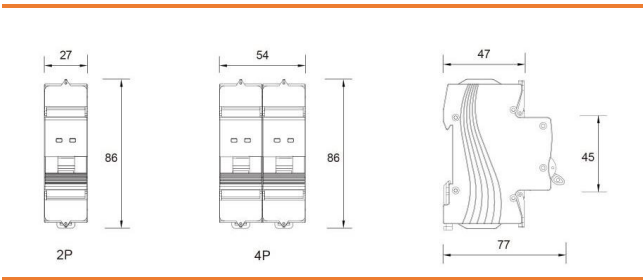
Performance in altitude*

Elevation [m]	2000	3000	4000	5000	6000
Rated current [A]	1 x In	0,95 x In	0,92 x In	0,90 x In	0,88 x In
Rated voltage [V]	1 x Un	0,85 x Un	0,75 x Un	0,65 x Un	0,55 x Un

* the isolator switch is designed for standard level operations, performance information on higher altitude is not available

Overall dimensions

All measurements in mm



Influence of adjacent devices

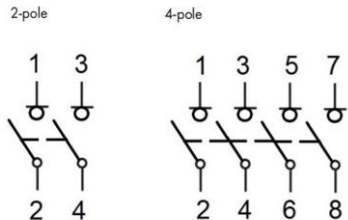
Number of devices	Correction factor
1	1
2-3	0,9
4-5	0,8
6-9	0,7
≥10	0,6

These values are provided by recommendation IEC 61439-1 and standards EN 61439-1. In order to avoid having to use these coefficients there must be good ventilation and the devices must be kept apart using the spacing element article number 2119000010 (0.5 module).

Power loss component


Inom (A)	HS27 2 pole (W)	HS27 4 pole (W)
25	0,63	1,26
40	1,61	3,22
63	4,00	8,00
80	6,40	12,80
100	10,00	20,00
125	15,75	31,50

Connection diagram




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Order codes

	Inom	HS27 - 2 pole	HS27 - 4 pole
	25 A	3102210025	3102410025
	40 A	3102210040	3102410040
	63 A	3102210063	3102410063
	80 A	3102210080	3102410080
	100 A	3102210100	3102410100
	125 A	3102210125	3102410125

Marker - spacer

Reference image	Description	Code
	Component Spacer 0,5mm	2119000010

Lockout

Reference image	Description	Code
	Lockout set - complete	2115909099
	Locking devices adaptor	2115909015
	Locking device screw adaptor	2115909010
	Padlock with 2 identical keys	2115909020
	Warning tag (English)	2115909030