

T e c h n i c a l D a t a S h e e t

i-switch Range - Sheet Steel Enclosed 125A 6P+2 E/B (SDR01256EB)

General Description

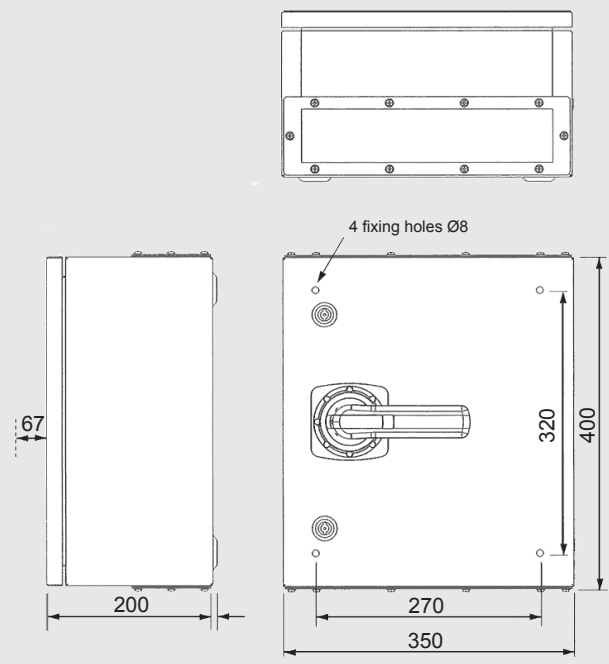
Switch Disconnecter from the 'i-switch' family of products. Designed to isolate multi-pole devices up to 45kW at 380/440V. Housed in a distinctive Red enclosure with removeable top & bottom gland plates, the assembly is sealed to IP65.



Design Features

- Safety handle - when padlocked in the 'Off' position, the enclosure door cannot be opened. Capable of accepting up to three padlocks in the 'Off' position. ('On' position on request)
- Door interlock handle can be defeated to enable emergency opening, or for testing purposes. (Must be carried out by a competent person)
- Sealing to IP65
- Removeable gland plates on top & bottom of all enclosures.
- Switch mounted on removeable galvanised chassis plate.
- Earthing points on box, lid & chassis plate. Pre-installed continuity connections.
- Enclosure finished Red (RAL 3020).

Dimensions



Materials	Sheet steel
Finish	Iron phosphate pre treatment with a powder coat RAL 3020 (Red) textured finish.
Hinges	Metal with quick release pins.
Door Locks	Two all metal locks supplied with one key per enclosure.
Gland plates	Gland plate on top & bottom faces finished to match the enclosure.
Chassis plate	Matl.- 2mm zinc plated steel.

Technical Data Sheet

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Technical Specification (Switch Disconnectors)

Data supplied against tests to IEC/BS EN 60947-3

		Sym.	Unit	125A
Rated insulation voltage		U_i	V	690
Rated impulse voltage		U_{imp}	kV	8
Rated thermal current		I_{th}	A	125
Rated operational voltage			V	690
Rated short-time withstand (1 sec)	1 sec	I_{cw}	A	2100
	3 sec		A	1300
	10 sec		A	700
	30 sec		A	400
	60 sec		A	300
Rated operational current	AC1/AC21A		A	125
	AC15	110V	A	40
		220/230V	A	28
		380/400V	A	15
		660/690V	A	5
Rated operational power	AC3 (3 Pole)	220/230V	kW	18.5
		380/440V	kW	37
		500/690V	kW	33
	AC3 (2 Pole)	110V	kW	5
		220/230V	kW	11
		380/440V	kW	15
	AC23A (3 Pole)	220/230V	kW	30
		380/440V	kW	45
		500/690V	kW	37
	AC23A (2 Pole)	110V	kW	5
		220/230V	kW	11
		380/440V	kW	15
DC Switching Capacity (I_e)	DC21A tc=1ms	48V	A	125
		60V	A	80
		110V	A	10
		220V	A	-
		440V	A	-
	DC23 tc=15ms <i>No. of contacts in series (l)</i>	24V	A	125(1)
		48V	A	125(2)
		60V	A	125(3)
		110V	A	50(3)
		220V	A	20(4)
	DC13 tc=50ms	48V	A	100
		60V	A	50
		110V	A	4
		220V	A	-
		440V	A	-
Max. fuse size for short circuit protection	10kA	$I_n(gG/gL)$	A	125
	25kA		A	100
	50kA		A	100
	63kA		A	100
Mechanical life		Switching cycles		1x10 ⁶
Terminal screw size				2xM5
Terminal capacity <i>r = rigid conductor</i> <i>f = flexible conductor</i>		(max.r/f)	2 x mm ²	70/50
			2 x AWG	2/0 / 1/0
		(min.r/f)	2 x mm ²	2.5/2.5
			2 x AWG	14/14

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