



PROTEK

Wall Mounted Changeover Switches IP65



SC04004

General Description

The sides and back of the enclosure are formed from a continuous sheet of 1.2mm thick Zintec Mild steel with dual-formed sections inserted at the top and bottom to complete the full size gland plate apertures (one of the largest on the market.)

The gland plates are manufactured from 2.0mm thick Zintec Mild steel.

The mounting plates are manufactured from 2.0mm thick: Zintec Mild steel.

Mounting plates are mounted on studs with a 17mm spacer.

Doors are manufactured in Zintec Mild steel 1.5mm thick, with a neat and pleasing radius on the corners. Left or right hand Hinging is easily achieved by rotation of the enclosure.

Door locks are black polyamide with an 8mm triangular insert, complete with a plastic non-conductive key.

All enclosures & Mounting plates are vapour de-greased prior to painting and then coated with 60-80 microns of thermally - cured Polyester-based powder paint to the highest standard of finish. Colour RAL7032.

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)

Positive contact indication through windows in Switch body.

Removable gland plates on top & bottom of all enclosures.

All isolators, fuse-switches and changeover switches are mounted on a removable galvanised chassis plate.

All Fuse Combination Switches are supplied complete with a set of fully rated fuse links.



SC04004 Interior



PROTEK's IP65 changeover switches 63A to 630A

Technical Specification

Changeover Switch Disconnectors

Data supplied against tests to BS EN 60947-3

Application	Sym.	Unit	Category	Rating (A)							
				63	100	125	160	200	250	400	630
Rated thermal current	I_{the}	A		63	100	125	160	200	250	400	630
Rated Insulation voltage	U_i	V		1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse voltage	U_{imp}	kV		12	12	12	12	12	12	12	12
Rated operational current	I_e	A	415V - AC22A	63	100	125	160	200	250	400	630
			415V - AC23A	63	100	125	160	200	250	400	630
Rated making capacity (AC23A)		A	415V, 0.35 pf	630	1,000	1,250	1,600	2,000	2,500	4,000	6,300
Rated breaking capacity (AC23A)		A	415V, 0.35 pf	504	800	1,000	1,280	1,600	2,000	3,200	5,040
Short Circuit Current		kA	RMS (with fuses)	50	50	50	50	100	100	100	80
Rated SC Making Capacity		A	Peak	10	10	10	10	30	30	40	50
Minimum mechanical endurance			Operations	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Minimum electrical endurance			415V - at 0.65 pf	5,000	5,000	5,000	1,000	1,000	1,000	1,000	500
Connecting capacity		-	Terminal type								
		mm ²	Min/Max	95	95	95	120	240	240	300	400
		mm	Stud/Cu palm width	8/20	8/20	8/20	8/20	10/25	10/25	10/25	12/50
		Nm	Tightening torque	9	9	12	16	25	30	45	50

Technical Data

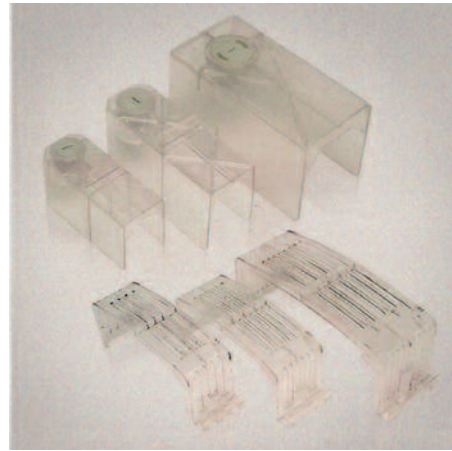
Part Number	Rating	Type	Dimensions HxWxD (mm)
SCO1004	100A	Four Pole	400x400x200
SCO1254	125A	Four Pole	500x500x200
SCO1604	160A	Four Pole	500x500x200
SCO2004	200A	Four Pole	500x500x240
SCO2504	250A	Four Pole	600x500x240
SCO3154	315A	Four Pole	600x600x300
SCO4004	400A	Four Pole	750x600x300
SCO6304	630A	Four Pole	1000x600x300



Terminal covers:-

The unit comes supplied with three terminal covers for shielding the incoming supply.

Terminal Cover	Rating
STS1	100A -160A
STS2	200A -400A
STS3	630A

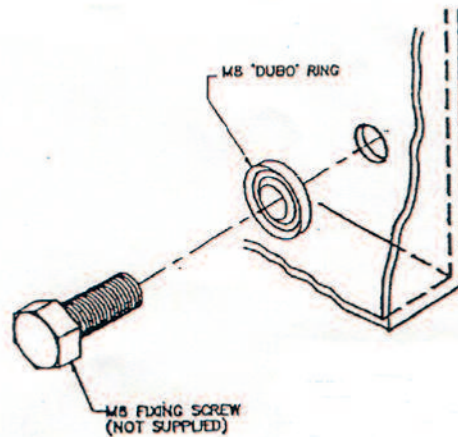


Terminal Shields & fuse Covers

Mounting unit to wall

Four M8 fixing bolts of a suitable length are required to fasten the enclosure to a flat wall.

To ensure IP65 integrity please use M8 'Dubo' rings supplied and insert as per sketch.



Auxiliary contacts



All auxiliary contacts are supplied as 1N/O + 1 N/C pair.

Rating A	63*	100-160	200-250**	400-800	1000-1250**
Part No.	SAUXCO	SAUXKITA	SAUXKITB	SAUXKITC	SAUXKITD

* See Page 4 **Ratings shown on image left

N.B. All N/O contacts are early break when switching to the 'Off' position. For additional contacts or details regarding Changeover Switch Disconnectors please contact our technical sales team.

Electrical ratings for Auxiliary blocks used in SAUXKITB & SAUXKITC
 Thermal rating (I) 660V a.c. or d.c.
 Switching capacity AC15: 6.0A at 120V, 4.0A at 250V, 2.0A at 660V
 DC13: 1.0A at 120V, 0.5A at 240V, 0.1A at 660V

Electrical Rating (BS EN 60947-1)
 Rated thermal current I_n - 10A AC ratings (inductive A600)
 Rated Insulation voltage U_i - 500V 240V - Make 30A, Break 3A
 Utilisation Category AC15 (DC13) 480V - Make 15A, Break 1.5A



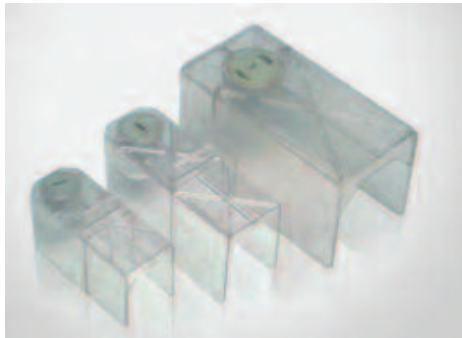
Safety Features



All handles will accept up to three padlocks in the OFF position.

It is recommended that a hasp diameter of 6.4 mm is used.

Handles lockable in the ON position are also available. Contact sales office for prices.



Terminal Covers

Terminal protection is provided on all items for live incoming terminals; spare terminal covers are available for replacement or extending the protection

Auxiliary contacts

Data supplied against test to IEC/BS 60947-5-1

Application	Sym.	Unit	Rating	
Rated Insulation Voltage	U _i	V	690	
Rated Thermal Current	I _t	A	10	
Rated operational current (AC15)	L	A	110V	8
			220 - 240V	8
			380 - 400V	3
			660 - 690V	1
Max. conductor size	-	mm ²	1.5	
Tightening Torque	-	Nm	0.6	

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