

General Description

Craig & Derricott has ranges of compact control panel isolation equipment for panel mounting ranging from 25A to 200A. All come supplied with operating handle and a standard length shaft.

A compact range of Switch-Disconnectors with the capacity to add auxiliary and neutral block options to the basic load break switch block.

Features

- IP2X terminal protection.
- Door interlock handles with override facility
- DIN rail or base mounting.
- Add-on auxiliary/neutral blocks.

The catalogue numbers below include:

- On-load AC23A Switch-disconnector.
- 100mm standard length shaft assembly.
- IP65 minimum door interlock handle.(Black)
- Terminal covers (A2 & A3 frame sizes only).

Catalogue Numbers			
Current Rating (A)	Format	Catalogue Number	Frame Size
25A	3P	SD00253B	A0
	6P	SD00256B	A0-A0
32A	3P	SD00323B	A0
40A	3P	SD00403B	A0
	6P	SD00406B	A0-A0
63A	3P	SD00633B	A1
	6P	SD00636B	A1-A1
80A	3P	SD00803B	A1
100A	3P	SDC01003B	A2
	6P	SDC01006B	A2-A2
125A	3P	SDC01253B	A2
	6P	SDC01256B	A2-A2
160A	3P	SDC01603B	A2
	6P	SDC01606B	A2-A2
200A	3P	SDC02003B	A3

'B' = Black Handle. For Red Handle, replace B with R in the catalogue number.
i.e. SD00253R

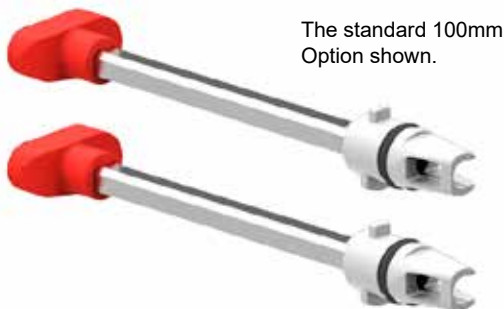


63A 3P assembly complete with standard shaft and handle assembly.

Extended Shafts

Both the standard 100mm shaft and the longer version as shown below can easily be adjusted to suit specific panel depths.

Catalogue Numbers			
Shaft length 'L'	Frame size	Shaft (mm ²)	Catalogue No.
200mm	A0 & A1	6	SSH2
200mm	A2 & A3	8	SSH17



The standard 100mm Option shown.



Handle assembly supplied with the 'A0' & 'A1' frame Sizes (SDH1/BLK).



Handle assembly supplied with the 'A2' & 'A3' frame Sizes (SDH3/BLK).

Includes emergency Override facility.



Accessories

Auxiliary Blocks

All of the accessories listed below can be retrofitted. One block can be fitted either side of the main assembly on all of the 3 pole Switch-Disconnecter interiors.

Catalogue Numbers	
Description	Catalogue Number
Auxiliary Contact - 2 Early Break	SAUX2EB
Auxiliary Contact - 1 N/O + 1 N/C	SAUXCO
25A - 40A Compact Neutral (Unswitched)	SNLC40
63A Neutral (Unswitched)	SNL63
80A Neutral (Unswitched)	SNL80
100A Neutral (Unswitched)	SNL100
125A Neutral (Unswitched)	SNL125
160A Neutral (Unswitched)	SNL160
200A Neutral (Unswitched)	SNL200
25A Neutral (Switched)	SSP25
40A Neutral (Switched)	SSP40
63A Neutral (Switched)	SSP63
80A Neutral (Switched)	SSP80
100A Neutral (Switched)	SSP100
125A Neutral (Switched)	SSP125
160A Neutral (Switched)	SSP160
200A Neutral (Switched)	SSP200



Neutral Link (Unswitched) 2 Early Break Auxiliary Neutral Link (Switched)



63A Switch-disconnector Fitted with Aux blocks



Assembly of 'SDH1/BLK' handle and SSH1/2 shaft assembly

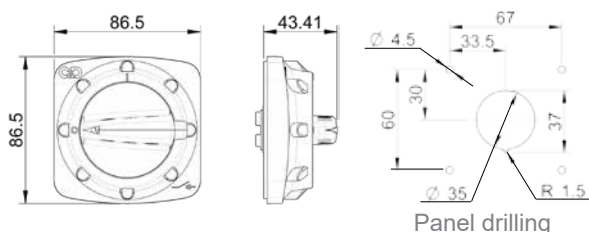


SNLC40 Neutral Link

Dims

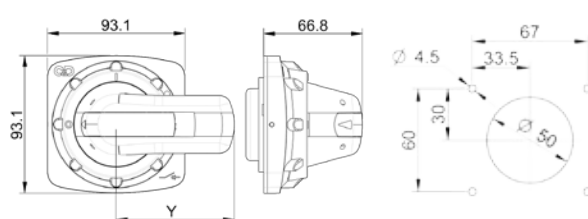
Handles

SDH1 Handle (A0 & A1)



Panel drilling

SDH3 Handle



Panel drilling

Handle	Shaft section	Dimension 'Y'	Isolator Frame Sizes
SDH3	8mm A/F	80mm	A2 & A3

Compact Range 25A - 200A



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General Description

A robust range of load break switches to ensure simple installation in applications such as power distribution boards. The compact design also suits OEM's and stand alone enclosure installations. A range of accessories extends the versatility.

Features:-

- On-load AC23A ratings.
- Four frame sizes covering 100A - 1250A.
- Direct lug connections onto plated Copper palms.
- Windows for contact inspection
- Supplied as either 3 or 4 pole versions.
- IP65 sealing door interlocking handles.
- Internal locking feature.

The catalogue numbers below include:-

- On-load AC23A Switch-disconnector.
- 200mm standard length shaft assembly.
- IP65 door interlock handle.(Black).

Catalogue Numbers

Current Rating (A)	Format	Catalogue Number	Frame Size
100A	3P	SD01003B	B1
	4P	SD01004B	
125A	3P	SD01253B	B1
	4P	SD01254B	
160A	3P	SD01603B	B1
	4P	SD01604B	
200A	3P	SD02003B	B2
	4P	SD02004B	
250A	3P	SD02503B	B2
	4P	SD02504B	
400A	3P	SD04003B	B3
	4P	SD04004B	
630A	3P	SD06303B	B3
	4P	SD06304B	
800A	3P	SD08003B	B3
	4P	SD08004B	
1000A	3P	SD10003B	B4
	4P	SD10004B	
1250A	3P	SD12503B	B4
	4P	SD12504B	

'B' = Black Handle. For Red Handle, replace B with R in the catalogue number.
i.e. SD00253R

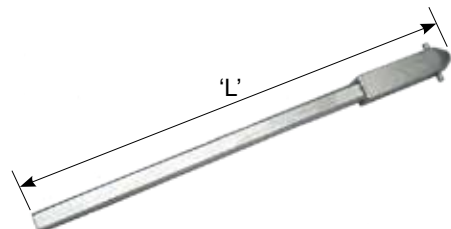


Typical assembly containing switch block, standard length shaft (200mm), handle assembly and incoming terminal covers.

Alternative Shafts

As an alternative to the standard 200mm shaft a 400mm option is available as indicated below. The shafts are manufactured from square section steel and zinc plated. The height setting is adjusted by passing the shaft through a bush in the switch mechanism and locking it in position using two 'cup point' grub screw.

Catalogue Numbers	Load break switch current Rating		
	100A - 160A	200A - 250A	400 - 1250A
Shaft length 'L'			
400mm	SSH13	SSH14	SSH15



Accessories

Auxiliary Contacts

Add-on auxiliary contacts are available for the 100A - 1250A range and can be selected from the table below.

All auxiliary kits contain the necessary fixings and attachments to install the contact blocks which are supplied in 1 N/O + 1 N/C format. All N/O contacts are early break with respect to the main poles when switching from 'On' to 'Off'.

Catalogue Numbers	Load break switch rating			
	100 - 160A	200A - 250A	400 - 800A	1000 - 1250A
Rating (A)	100 - 160A	200A - 250A	400 - 800A	1000 - 1250A
Catalogue No.	SAUXKITA	SAUXKITB	SAUXKITC	SAUXKITD
Block type	B	C	C	B



Technical Specification

Data supplied against tests to BS EN 60947-1

	Sym.	Category	Auxiliary blocks type 'B'	Auxiliary blocks type 'C'
Thermal current	I_{th}		10A	10A
Rated insulation voltage	U_i		660V a.c. or d.c.	500V
Utilisation Category	-	AC15	6.0A at 120V, 4.0A at 250V, 2.0A at 660V	240V - Make 30A, Break 3A 480V - Make 15A, Break 1.5A
		DC13	1.0A at 120V, 0.5A at 240V, 0.1A at 660V	240V - Make 30A, Break 3A 480V - Make 15A, Break 1.5A
		Pure Resistive	10A	-

Handles

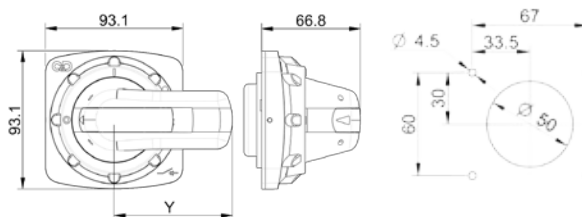
Dims

Handle assembly supplied with the 'B1 / B2' frame size (SDH2/BLK or SDH3/BLK).



SDH3/4/7 Handles

Panel drilling



Handle assembly supplied with the 'B3' (SDH4/BLK) & 'B4' (SDH7/BLK) frame sizes.



Handle	Shaft Section	Dimension 'Y'	Isolator Frame Sizes
SDH2	6mm A/F	80mm	B1
SDH3	8mm A/F	80mm	B2
SDH4	12mm A/F	146mm	B3
SDH7	12mm A/F	220mm	B4



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General Description

A compact range of fuse combination units designed specifically for the panel builder market.

Features

- IP2X terminal protection.
- Suitable for std. IEC/BS EN 60269 (BS88) fuse links.
- Supplied as 3P&N or 3P&NL (Neutral Switched or Unswitched respectively).
- Add-on auxiliary/neutral blocks.

The catalogue numbers below include:-

- On-load AC23A fuse combination unit.
- 200mm standard length shaft and IP65 door interlocking handle.
- Incoming/outgoing terminal protection & fuse covers up to 125A.



Typical 63A assembly

Catalogue Numbers

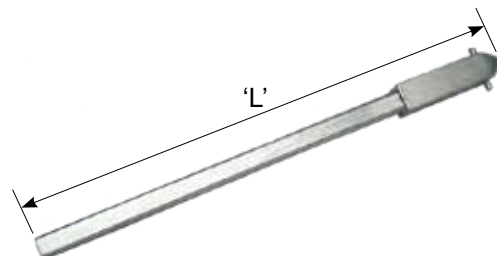
Current Rating (A)	Format	Catalogue Number	Frame Size
32A	3P+N	SDF00323NB	D1
	3P+NL	SDF00323NLB	
63A	3P+N	SDF00633NB	D1
	3P+NL	SDF00633NLB	
100A	3P+N	SDF01003NB	D2
	3P+NL	SDF01003NLB	
125A	3P+N	SDF01253NB	D2
	3P+NL	SDF01253NLB	
160A	3P+N	SDF01603NB	D3
	3P+NL	SDF01603NLB	
200A	3P+N	SDF02003NB	D4
	3P+NL	SDF02003NLB	
250A	3P+N	SDF02503NB	D4
	3P+NL	SDF02503NLB	
315A	3P+N	SDF03153NB	D5
	3P+NL	SDF03153NLB	
400A	3P+N	SDF04003NB	D5
	3P+NL	SDF04003NLB	
630A	3P+N	SDF06303NB	D6
	3P+NL	SDF06303NLB	

'B' = Black Handle. For Red Handle, replace B with R in the catalogue number. i.e. SD00253R

Alternative Shafts

As an alternative to the standard 200mm shaft a 400mm option is available as indicated below. The shafts are manufactured from square section steel and zinc plated. The height setting is adjusted by passing the shaft through a bush in the switch mechanism and locking it in position using two 'cup point' grub screw.

Catalogue Numbers	Load break switch current Rating			
	Shaft length 'L'	32A - 160A	200A - 400A	630A
400mm		SSH13	SSH15	SSH15



Supplied Handles

Designed to compliment the handles used on our enclosed equipment, the door interlocked versions are capable of being locked with up to three individual padlocks (Ø6.4 max shackle dia).

All handles are sealed to IP65 which will enable installations in a wide variety of environmental conditions.

If the contacts should weld due to a fault or an excessive current situation, an override facility is provided for the use of a competent person which will allow the enclosure lid to be opened.



Handle assembly supplied with the 'D1' to 'D3' frame size (SDH2/BLK).

Handle assembly supplied with the 'D4' to 'D6' frame size (SDH4/BLK).



Accessories

Auxiliary Contacts

Add-on auxiliary blocks are available for all Fuse Combination Units. Please select the blocks/kit from the tables below. All auxiliaries are supplied as 1 N/O+1 N/C pair.

All N/O auxiliary contacts are early break with respect to the main poles when switching from 'On' to 'Off'.

For additional contacts or details regarding auxiliaries for Changeover Switch-Disconnectors please contact our sales team.



Catalogue Numbers			
Rating (A)	32-160	200-400	630
Cat No	SAUXKITA	SAUXKITC	SAUXKITD
Type	B	C	B

Fuse Links

Fuse links can be fitted to a lower rating to suit a particular load: please refer to the rating table below to maintain the correct size/tag format (A2, A4, B1 etc.).



Rating (A)	32	63	100	125	160	200	250	315	400	630
C&D Cat. No.	SFL32	SFL63	SFL100	SFL125	SFL160	SFL200	SFL250	SFL315	SFL400	SFL630
Cooper Bussmann Cat. No.	AA032	BA063	CE0100	DE0125	DD160	DD200	ED250	ED315	ED400	FF630
Lawson Cat. No.	TIA32	TIS63	TCP100	TFP125	TF160	TF200	TKF250	TKF315	TMF400	3T630
BS fuse format	A2, A3	A2, A3	A4	A4	B1, B2	B1-B2	B1-B2	B1-B4	B1-B4	C1-C3
Fuse Fixing CRS (mm)	73 nom.	73 nom.	94 nom.	94 nom.	111 nom.	111 nom.	111 nom.	111 nom.	111 nom.	133/184 nom.



General Description

A compact range of load break Changeover Switches suitable for a wide range of applications.

Features

- Compact 'piggy-back' design.
- On-load AC23A ratings.
- Supplied as four pole format.
- Windows for visual contact inspection.

The catalogue numbers below include:-

- On-load AC23A changeover four pole switch.
- 200mm standard length shaft assembly.
- IP65 door interlocking handle.

Catalogue Numbers

Current Rating (A)	Catalogue Number	Frame Size
63A	SCOD00634B	C1C
100A	SCOD01004B	C1C
125A	SCOD01254B	C2C
160A	SCOD01604B	C2C
200A	SCOD02004B	C2C
250A	SCOD02504B	C2
400A	SCOD04004B	C3
630A	SCOD06304B	C3

'B' = Black Handle. For Red Handle, replace B with R in the catalogue number. i.e. SD00253R

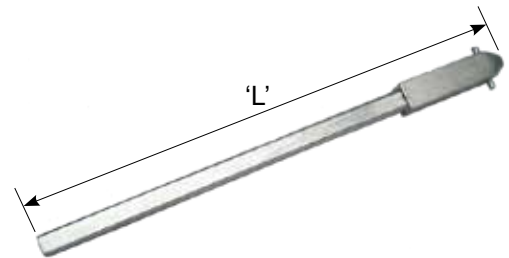


Typical 'C2/C3' Arrangement

Alternative Shafts

As an alternative to the standard 200mm shaft a 400mm option is available as indicated below. The shafts are manufactured from square section steel and zinc plated. The height setting is adjusted by passing the shaft through a bush in the switch mechanism and locking it in position using two 'cup point' grub screw.

Shaft length 'L'	Load break switch current Rating		
	63A - 100A	125A - 200A	250A - 630A
400mm	SSH14	SSH18	SSH15



Supplied Handles

Designed to compliment the handles used on our enclosed equipment, the door interlocked versions are capable of being locked with up to three individual padlocks (Ø6.4 max shackle dia). All handles are sealed to IP65 which will enable installations in a wide variety of environmental conditions.

If the contacts should weld due to a fault or an excessive current situation, an override facility is provided for the use of a competent person which will allow the enclosure lid to be opened.



Handle assembly supplied with the 'C1C & C2C' frame size (**PSA0515**). Handle length 145mm.

Handle assembly supplied with the 'C2' & 'C3' frame size (**SDH6/BLK**). Handle length 220mm.



Technical Specification



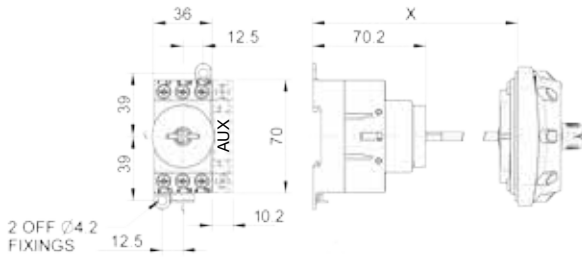
Application	Sym	Unit	Category	Compact Range												Standard Range											
				25	32	40	63	80	100	125	160	200	250	320	400	500	630	800	1000	1250							
Rated thermal current	I_{th}	A		25	32	40	63	80	100	125	160	200	250	320	400	500	630	800	1000	1250							
Rated insulation voltage	U_i	V		690	690	690	690	690	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000							
Rated impulse voltage	U_{imp}	kV		6	6	6	6	6	8	8	8	8	8	8	12	12	12	12	12	12							
Rated operational current (AC)	I_e	A	400V - AC21A	25	32	40	63	80	100	100	125	160	200	250*	320*	400*	500*	630*	800*	1000*	1250*						
			690V - AC21A	25	32	40	63	80	100	100	100	125	160	200	250	320	400	500	630	800	1000	1250					
			400V - AC22A	-	-	-	-	-	100	100	100	125	160	200	250*	320*	400*	500*	630*	800*	1000*	1250*					
			690V - AC22A	-	-	-	-	-	100	100	100	125	160	160	200	250	320	400	500	630	800	1000	1250				
			400V - AC23A	21	29	29	48	56	100	112	128	128	128	128	128	100*	125*	150*	200*	250*	320*	400*	500*	630*			
690V - AC23A	17	17	17	33	33	53	-	-	-	-	-	-	40	50	63	200	250	320	400	500	630	800					
Rated operational current (DC) (poles in series)	I_e	A	Up to 48V - DC21A	25/1	32/1	40/1	63/1	80/1	-	-	-	-	-	100/2	125/2	160/2	200/2	250/2	320/2	400/1	500/1	630/1	800/1				
			220V - DC21A	25/3	32/3	40/3	63/4	80/4	-	-	-	-	-	-	100/3	125/3	160/3	200/2	250/2	320/2	400/2	500/3	630/2	800/2			
			Up to 48V - DC22A	-	-	-	-	-	-	-	-	-	-	-	-	100/2	125/2	160/2	200/2	250/2	320/2	400/1	500/1	630/1	800/1		
			220V - DC22A	-	-	-	-	-	-	-	-	-	-	-	-	100/3	125/3	160/3	200/2	250/2	320/2	400/2	500/3	630/2	800/2		
			Up to 48V - DC23A	-	-	-	-	-	-	-	-	-	-	-	-	100/2	125/2	160/2	200/2	250/2	320/2	400/1	500/1	630/1	800/1		
220V - DC23A	-	-	-	-	-	-	-	-	-	-	-	-	100/3	125/3	160/3	200/2	250/2	320/2	400/2	500/3	630/2	800/2					
Rated operational power	P_e	kW		11	15	15	25	30	59	63	75	75	75	37	45	75	110	132	200	315	355	400	400				
Short circuit making capacity	I_{cm}	kA		15	15	15	30	30	51	55	55	55	55	37	45	75	170	200	315	355	400	400	400				
Short circuit withstand (1sec)	I_{cw}	kA		0.5	0.6	0.6	1.3	1.4	2.6	2.8	3.0	3.0	3.0	5	5	5	8	8	17	17	17	17	17				
Min. mechanical endurance				250 x 10 ³	250 x 10 ³	250 x 10 ³	250 x 10 ³	250 x 10 ³	50 x 10 ³	50 x 10 ³	50 x 10 ³	50 x 10 ³	50 x 10 ³	20 x 10 ³	20 x 10 ³	20 x 10 ³	16 x 10 ³	16 x 10 ³	10 x 10 ³	10 x 10 ³	10 x 10 ³	10 x 10 ³	6 x 10 ³				
Min. electrical endurance				-	-	-	-	-	-	-	-	-	-	5,000	5,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500				
Connecting capacity			Terminal type																								
			Min/Max	2.5/6	2.5/10	2.5/10	2.5/25	2.5/25	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70	10/70		
			Stud/Cu palm width	-	-	-	-	-	-	-	-	-	-	-	-	8x25	8x25	8x25	8x25	8x25	10x30	10x40	12x40	12x40	12x60	12/60	
			Tightening torque	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2	2	2	2	6	8	8	20	25	25	25	25	40	40	40	

* All AC21, AC22 & AC23 tests carried out at 415V



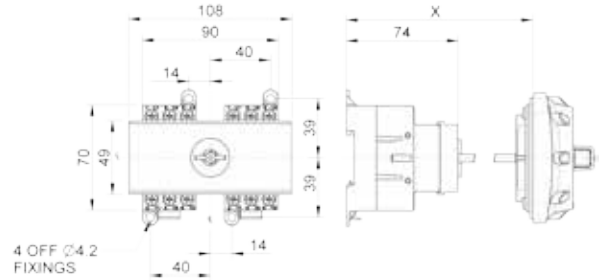
A0 Size (25A - 40A)

x1 = n/a | x2= 105-180 | x3 = 105-280



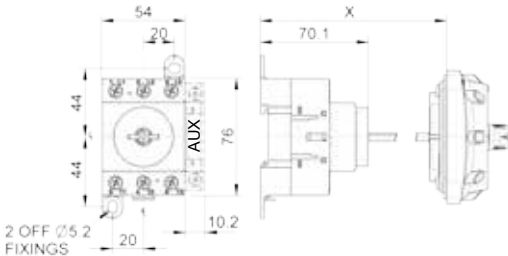
A0-A0 Size (6 pole 25A & 40A)

x1 = 98 | x2= 116-191 | x3 = 116-291



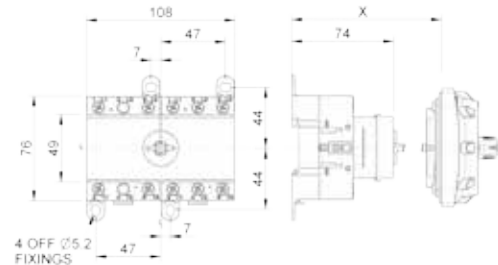
A1 Size (63A - 80A)

x1 = 98 | x2= 110-185 | x3 = 110-285



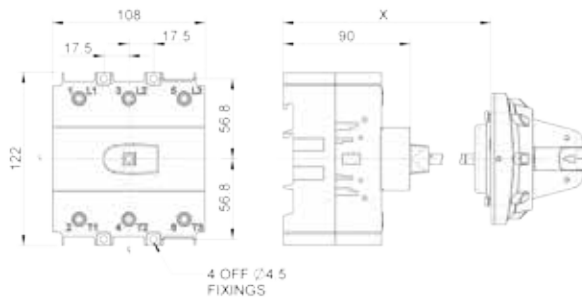
A1-A1 Size (6 pole 63A-80A)

x1 = 98 | x2= 116-191 | x3 = 116-291



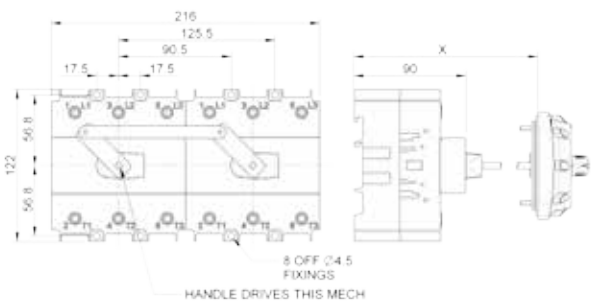
A2 Size (100A - 160A)

x1 = 121-166 | x2= n/a | x3 = 121-235



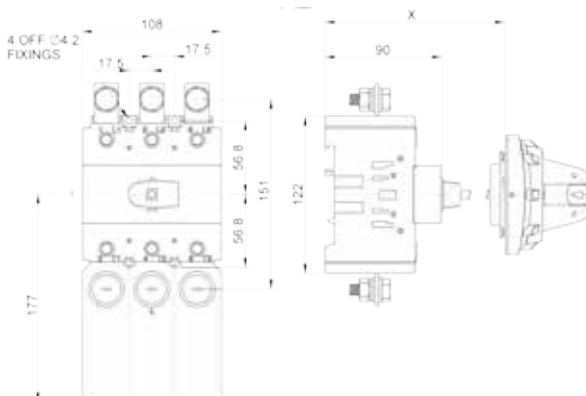
A2-A2 Size (6 pole 100A-160A)

x1 = 121-166 | x2= n/a | x3 = 121-235



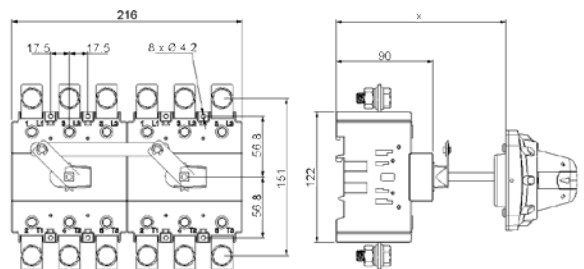
A3 Size (200A)

x1 = 121-166 | x2= n/a | x3 = 121-235



A3 Size (6 pole 200A)

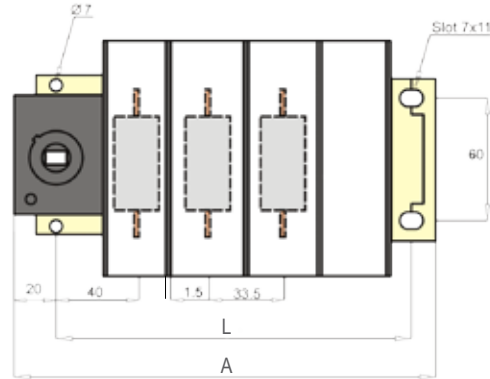
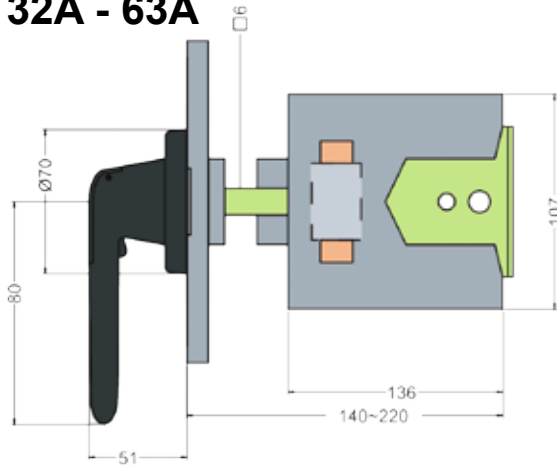
x1 = 121-166 | x2= n/a | x3 = 121-235



x1 = Min. & Max. (mm) (without extension shaft)
 x2 = Min. & Max. (mm) with 100mm shaft extension
 x3 = Min. & Max. (mm) with 200mm shaft extension



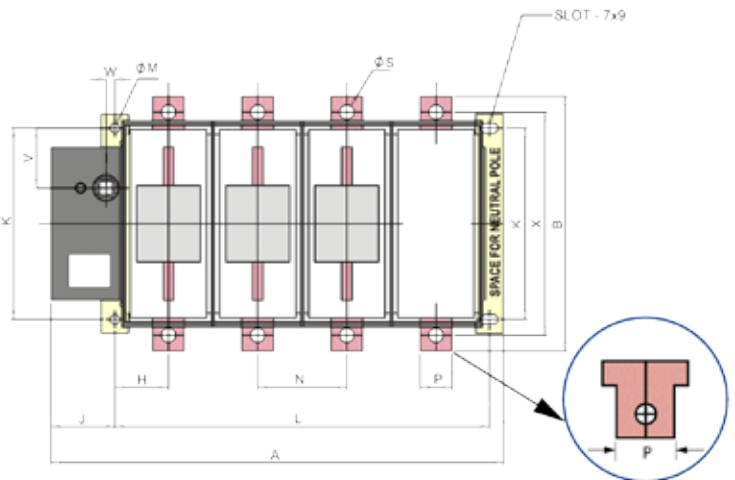
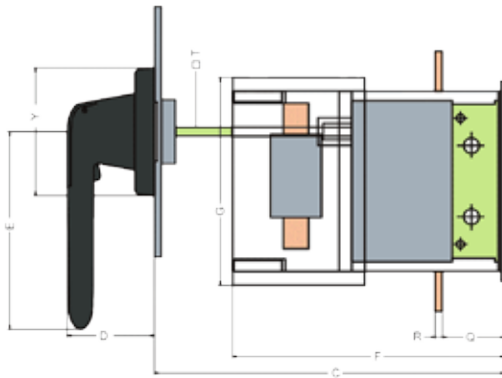
32A - 63A



Format	A	L
3P+NL	168	138
3P+N	201	171

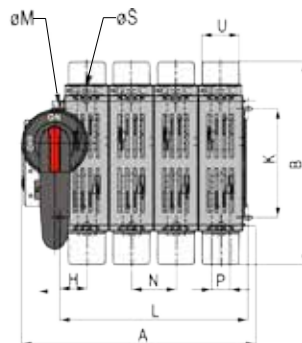
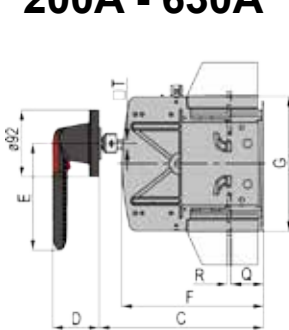
Frame Size D1

100A - 160A



Rating (A)	A		B	C	D	E	F	G	H	J	K	L		M	N	P	Q	R	S	T	V	W	X	Y	Frame Size
	3P&NL	3P&N										3P&NL	3P&N												
100 - 125	190	230	142	135-225	67	80	134	98	44.5	20	60	160	200	7	40	20	40	2	9	6	30	0	122	93	D2
160	212	260	142	135-225	67	80	134	98	44.5	20	60	182	230	7	48	20	40	3	9	6	30	0	122	93	D3

200A - 630A



Rating (A)	A		B	C	D	E	F	G	H	K	Frame Size
	3P&NL	3P&N									
200-250	261	323	280	230-310	67	145	196	186	37	150	D4
315-400	285	355	280	230-310	67	145	196	186	37	150	D5
630	360	440	444	245-305	67	145	231	250	60	190	D6

Rating (A)	L		M	N	P	Q	R	S	T	U	Frame Size
	3P&NL	3P&N									
200-250	198	260	7	62	25	45	5	11	12	52	D4
315-400	222	292	7	70	25	45	5	11	12	52	D5
630	278	358	9	80	40	40	6	13	12	61	D6



