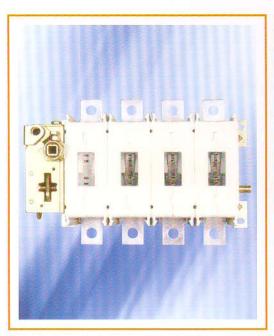
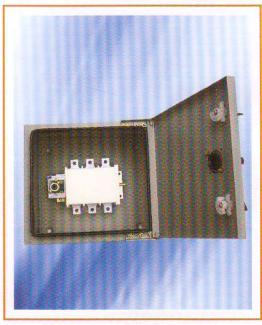
Switch Disconnectors (On-Load Break Switches)

25A 3150A, 690V



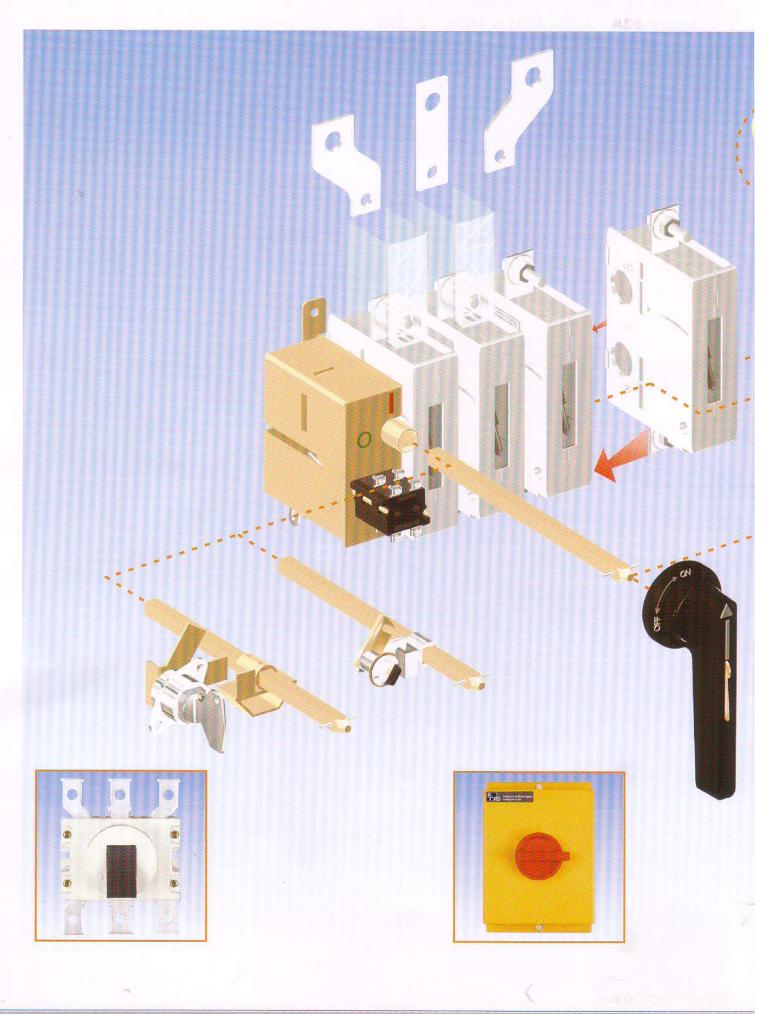


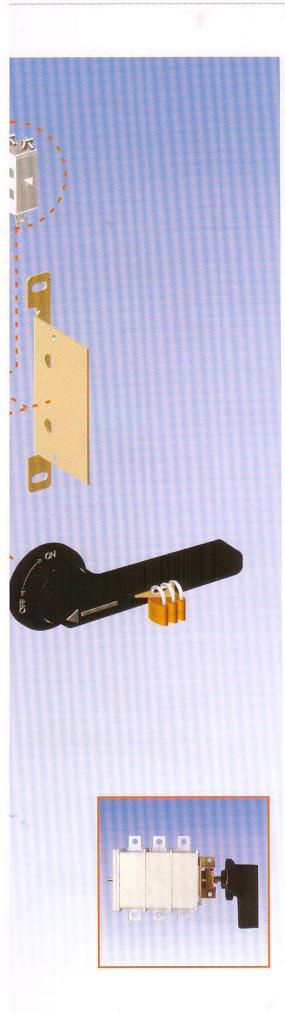












Rugged construction, Integrating end user convenience with installation flexibility

Controls & Switchgear offers a wide range of Switch Disconnectors (On Load Break Switches) - 25A to 3150A, suitable for operation upto 690V. Available in 3 Pole as well as 4 Pole, interiors as well as in enclosure, they are suitable for AC23 utilisation category and confirm to IEC 60947/IS 13947.

63A onwards, these switches have individual phase pole construction, enabling any combination from 1 pole to 8 poles. Thus, modular yet rugged construction, with all poles including the neutral having same 100% rating & reliability.

Modular arrangement also eliminates need for matching standard 3 pole switch to specific installation requirement by adding neutral pole in 3 phase 4 wire AC system or looping poles for DC system. Hence these switches are most suitable & economical switch for all applications like:-

- * Main Service Entrance Switch from Transformers & Busbars,
- ♦ AC or DC Power Distribution System,
- Switching & Isolating Motors,
- Switching & Isolating Capacitors,
- Switching & Isolating Industrial Control Equipment,
- ♦ AC or DC Safety Switch

Their mounting flexibility offers numerous matchless benefits for use in power distribution boards or for standalone mountings. They are compact enough to occupy small panel space yet allowing installation as per convenience and rendering it safe for maintenance.

For machine tool or distribution (scattered) installation in buildings, upto 125A switches are also available in plastic enclosure, which are corrosion proof and add to the aesthetic of the installations.

Multiple accessories to suit application requirements also enhance the flexibility of operation and safety level of installation. They also facilitate these switches to match diverse application requirements.

Manufactured in ISO 9001 certified facilities, rugged design combining ease of operation and maintenance, they have stood the test of adverse environments in all types of climate in various countries, including India for more than in 15 years.

These switches have established their ingenuity in breaking the stalled motor current in the event of emergency, switching highly inductive loads, capacitor banks, DC loads etc.

They have been used successfully in almost every industry, becoming the exclusive choice of every discerning user, be it Power Plants, Building segments, Telecommunication field or industries like Steel, Chemical, Cement, Automobile, Machine Tools etc.



Internationally Endorsed

Tested & Accepted World over

C&S Switch Disconnectors have been tested for their conformity to International as well as Indian Standards at various independent Laboratories like - ASTA for conformity to International Standards – IEC 60947 Part 3 and CPRI, ERDA for conformity to Indian Standards IS 13947 Part 3. These also conform to the safety regulations adopted in the European Union and carry the CE marking.

OEMs and panel assemblers can be assured that this design is already being used and exported to many countries the world over.

An ISO 9001 certified manufacturing facilities gives the assurance of quality & consistency of these switches

Flexible Design

Modular yet reliable construction

C&S Switch Disconnector have a modular assembly for operating mechanism and pole. Contact system, placed in separate housing for individual phase poles, are joined together to form a switch with any number of poles - from 1 pole, upto 8 poles.

Flexibility of this arrangement also permits to place mechanism in between the poles. 63A-315A, switches with side operated mechanism are also offered.

There is no add-on arrangement, each pole has same 100% rating and operates with same reliability. As each pole is independent of other, its maintenance or replacement is easy & economical in the event of damage.

Switches can hence be ordered as per installation requirement 2 pole for DC; 3 pole for 3 phase, 3 wire system; 4 pole for 3 phase, 4 wire system or 6 pole for Star Delta motors.

Unique Contact Mechanism

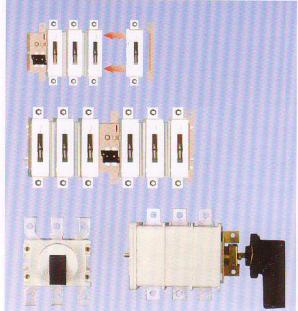
Efficient Switching & Long life

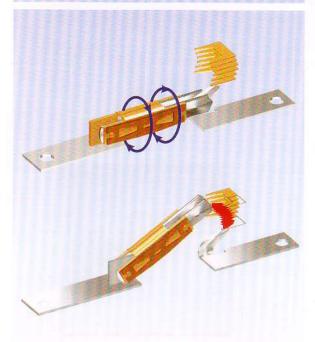
Switch Disconnectors of rating 200A and above employ unique Knife Contact Mechanism, which uses magnetic attraction principle in iron circuit on the moving contacts. As current increases, automatically the contact force too increases, ensuring - good contacts at all times, high making and breaking capacity upto 690V and low temperature rise leading to long electrical life.

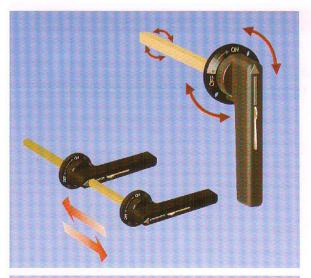
The special form of fixed contacts results in separate arcing and current carrying surfaces. It again ensures that current carrying surface remains unaffected by arcing, maintaining same contact pressure and enhancing electrical life. Special shape of fixed contacts also help blow out the Arc into Arc — Chute where it is swiftly extinguished under controlled conditions, safely.

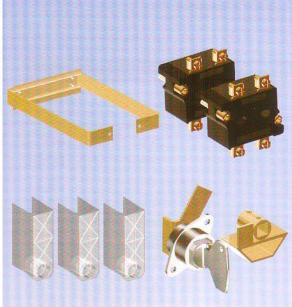
With every switching, the knife contacts clean themselves. This makes them perfectly suited for Indian conditions in general and for high pollution and corrosive conditions as in Chemical Plants, Cement Plants, Steel Plants, etc., including applications like Motors and capacitor switching.













Easy Installation

Convenient, Swift & Economical

The handle in the C&S switch disconnectors has a telescopic shaft. The handle & shaft assembly adjusts to wide depth of the panel so there is no need to place a bracket below the switch while aligning it with enclosure door. It permits installation of the same switch in installations of different depths, without any modification or addition to the enclosures.

Four hole handle fixing on the door permits last minute rotation of the switch inside the panel by 90 degrees on either side as per convenience, again without any modification to the door.

These time saving features increase the ease and flexibility of installation and also reduce installation cost.

Accessories

Flexibility to suit Application

Multiple accessories increase these switches suitability for diverse application, enhance operational flexibility and improve installation safety.

Handle mounting kit lets complete Switch mounted inside enclosure door so that it can be operated only after opening the door. Door mounting kit lets fixing complete switch on to the door, doing away with need for fixing switch on base plate & aligning with door.

Auxiliary contacts permit electrical interlocking, remote indication and Alarm. Key Lock and Castle Lock help interlocking with different category of products.

Extended terminals allow further liberal termination or termination of large number of cables with higher clearances. Shrouds encase the terminals so that no falling hardware may get embedded between the terminals resulting in flashovers.

Switch Construction

Safety Built-in

C&S design introduced the concept of protection in case of welded contacts by positive break forced opening of contacts. In the event of high current and fuse failing to operate, leading to welding of contacts, the handle will not turn beyond 45° from the ON position, clearly indicating that the contacts are welded.

Convenience of contacts visibility, permits contact position inspection, without removing the switch from installation, thus enhancing reliability and saving time.

Self extinguishing fibre glass re-inforced insulating body of poles has very high tracking index. Large gap between fixed and moving contacts in OFF position, make them suitable for isolation function.

Door interlocking prevents opening in the ON position, guarding the operator against an accidental mishap. As a standard upto 3 padlocks are provided in the OFF position to prevent closing the circuit during maintenance work. They can also be provided for the ON position. Using a suitable gasket along with handle enhances ingress protection level to IP 54.

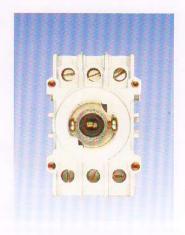


Common Characteristics

Conformity to Standards
Rated Operational Voltage (Ue)
Rated Operational Frequency
Suitability for Isolation (—/d—)
Pollution Degree as per IEC / IS
Ambient / Cubicle Service Temp.
IP Level after mounting
Number of Poles (4th Pole always 100% rated in 4 Pole switches)



IEC 60947 Pt.3 & IS 13947 Pt.3 415 50 / 60 YES 3 55 IP 54 3P / 4P 1P to 8P on request



Catalogue Reference				
Million de la Contraction de l	# O(a h	(ue ke	terence
		Annihilation Co.		

Rated Operational Current (le) Max. Operational Voltage without derating Rated Insulation Voltage (Ui) Impulse Withstand Voltage (Uimp) Conventional Enclosed Thermal Rating @ 45°C (Ithe) AC22A Utilisation Category Rating @ 415V AC23A Utilisation Category Rating @ 415V DC23A Utilisation Category Rating @ 220V, 2 Poles in series Rated Operational Power, AC3 @ 415V Rated Capacitor Power @ 415V, 50 / 60 Hz Rated AC Making Capacity, 415V, 0.35 pf Rated AC Breaking Capacity, 415V, 0.35 pf Rated DC Making/Breaking Capacity, 220V, L/R 15ms, 3P in series Rated Conditional (Fused) Short Circuit Current, RMS Back up Fuse Rating Corresponding max. cut-off permitted Short Circuit Making Capacity (Icm) Rated Short Time Withstand Current (Icw) 1 sec. Endurance, Mechanical Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	
Rated Insulation Voltage (Ui) Impulse Withstand Voltage (Uimp) Conventional Enclosed Thermal Rating @ 45°C (Ithe) AC22A Utilisation Category Rating @ 415V AC23A Utilisation Category Rating @ 420V, 2 Poles in series Rated Operational Power, AC3 @ 415V Rated Capacitor Power @ 415V, 50 / 60 Hz Rated AC Making Capacity, 415V, 0.35 pf Rated AC Breaking Capacity, 415V, 0.35 pf Rated DC Making/Breaking Capacity, 220V, L/R 15ms, 3P in series Rated Conditional (Fused) Short Circuit Current, RMS Back up Fuse Rating Corresponding max. cut-off permitted Short Circuit Making Capacity (Icm) Rated Short Time Withstand Current (Icw) 1 sec. Endurance, Mechanical Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	Rated Operational Current (le)
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Rated DC Making/Breaking Capacity, 220V, L/R 15ms, 3P in series Rated Conditional (Fused) Short Circuit Current, RMS Back up Fuse Rating Corresponding max. cut-off permitted Short Circuit Making Capacity (Icm) Rated Short Time Withstand Current (Icw) 1 sec. Endurance, Mechanical Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	Rated AC Making Capacity, 415V, 0.35 pf
Rated Conditional (Fused) Short Circuit Current, RMS Back up Fuse Rating Corresponding max. cut-off permitted Short Circuit Making Capacity (Icm) Rated Short Time Withstand Current (Icw) 1 sec. Endurance, Mechanical Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	Rated AC Breaking Capacity, 415V, 0.35 pf
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Corresponding max. cut-off permitted Short Circuit Making Capacity (Icm) Rated Short Time Withstand Current (Icw) 1 sec. Endurance, Mechanical Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	Rated Conditional (Fused) Short Circuit Current, RMS
Short Circuit Making Capacity (Icm) Rated Short Time Withstand Current (Icw) 1 sec. Endurance, Mechanical Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	Back up Fuse Rating
Rated Short Time Withstand Current (Icw) 1 sec. Endurance, Mechanical Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	Corresponding max. cut-off permitted
Endurance, Mechanical Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	Short Circuit Making Capacity (Icm)
Endurance, Electrical @ 0.65 pf Terminals suitable for Cable Lug of size	Rated Short Time Withstand Current (Icw) 1 sec.
Terminals suitable for Cable Lug of size	Endurance, Mechanical
	Endurance, Electrical @ 0.65 pf
	Terminals suitable for Cable Lug of size
Tightening Torque	Tightening Torque
Approx. Weight of Interior Unit, TPN / 4P	Approx. Weight of Interior Unit, TPN / 4P

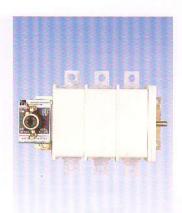
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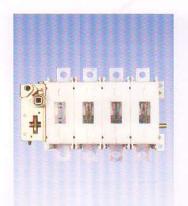
	C35D23	C35D40
A	25	40
	690	690
	750	750
kV	8	8
A	25	40
	25	40
	25	63
	25	40
kW	7.5	11
kVAR	10	12.5
A	250	400
	200	320
	100	160
kA	50	50
	40	50
kAp	4.5	5
kAp	1.9	2
	0.9	1
Cycles	40000	40000
Cycles	5000	5000
Sq. mm	16	25
	3.5	5.5
kg.	0.2/0.25	0.2/0.25

Auxiliary Contacts Ratings

Thermal Rating AC15 @ AC 415V DC13 @ 220V









CSSD63	CSSD125	CSSD100	CSSD12	5 CSSD160	CSSD200	CSSD250	CSSD315	CSSD200	CSSD250	CSSD400
D/K	Туре		DM Type			DM Туре		(<u></u>		
63	125	100	125	160	200	250	315	200	250	400
690	690	690	690	690	690	690	690	690	690	690
750	750	1000	1000	1000	1000	1000	1000	1000	1000	1000
8	8	12	12	12	12	12	12	12	12	12
63	125	100	125	160	200	250	315	200	250	400
63	125	100	125	160	200	250	315	200	250	400
63	75	100	125	160	200	250	315	200	250	400
63	75	100	125	160	200	250	315	200	250	400
25	37	37	45	75	90	132	160	90	132	200
30	35	40	50	60	90	115	145	90	115	250
630	750	1000	1250	1600	2000	2500	3150	2000	2500	4000
504	600	800	1000	1280	1600	2000	2520	1600	2000	3200
252	300	400	500	640	800	1000	1260	800	1000	1600
50	50	80	80	80	100	100	100	100	100	100
80	125	100	125	160	200	250	315	200	250	400
8	10	8	10	18	30	30	30	30	30	36
2.7	3.6	8	10	18	30	30	30	30	30	36
1.5	2.5	3.2	3.2	5	8	8	8	8	8	24
40000	40000	40000	40000	10000	10000	10000	10000	10000	10000	10000
5000	5000	5000	5000	1000	1000	1000	1000	1000	1000	1000
25	70	70	95	120	240	240	300	240	240	300
5.5	12	9	12	16	45	30	35	25	30	45
0.3/0.4	0.3/0.4	1.6/2.1	1.6/2.1	1.8/2.25	3.0/3.7	3.0/3.7	3.2/3.9	3.5/4.2	3.5/4.2	4.5/5.4

10 4



Common Characteristics

Conformity to Standards
Rated Operational Voltage (Ue)
Rated Operational Frequency
Suitability for Isolation (—d—)
Pollution Degree as per IEC / IS
Ambient / Cubicle Service Temp.
IP Level after mounting
Number of Poles (4th Pole always 100% rated in 4 Pole switches)



IEC 60947 Pt.3 &
IS 13947 Pt.3
415
50 / 60
YES
3
55
IP 54
3P / 4P

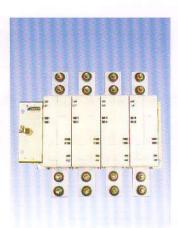
1P to 16P on request



	CSSD630
A	630
V	690
	1000
kV	12
A	630
	. 630
A	630
A	630
kW	315
kVAR	300
A	6300
A	5040
A	2520
kA -	80
	630
kAp	36
kAp.	36
KA	24
Cycles	10000
Cycles	500
Sq. mm	400
N-m	50
kg.	5.2/6.1
	V V kV A A A A kW kVAR A A A A KA A KA A KA Cycles Cycles Cycles Sq. mm N - m

On request









CSSD800	C5SD1000	CSSD1250	CSSD1600	CSSD1800	CSSD2500	CSSD3150
800	1000	1250	1600	1800	2500	3150
690	690	690	690	690	690	690
1000	1000	1000	1000	1000	1000	1000
- 12	12	12	12	12	12	12
800	1000	1250	1600	1800	2300	2700
800	1000	1250	1600	1800	1800	1800
800	1000	*	*	*	*	*
800	<u></u>	*	*	*	*	*
350	400	*	*	*	*	*
350	630		*	*	*	*
8000	10000	*	*	*	*	*
6400	8000	*	*	*	*	*
3200	4000	*	*	*	*	*
80	80	*	*	*	*	*
800	1000	*	*	*	*	*
36	36	*	*	*	*	*
36	36	*	*	*	*	*
24	50	*	*	*	*	*
10000	10000	10000	10000	10000	6000	6000
500	500	500	500	500	100	100
625				EFTER		
75	75	75	75	75	75	75
5.4/6.5	11.5/15	12/15.5	15.6/20	16/20.5	36.2/45	36.8/46
		F-				
	10					

10



Accessories



Mounting

EABW	Plastic Encl., Black & White
EACL	Plastic Encl., Red & Yellow
E	In SS Encl.
Blank	Interior

Rating

40	40A
800	800A
2500	2500A

Ratings

Castle lock

Switch Type

D	Old Series, upto 250A
DM	Compact Series, upto 63A-315A
K	400A & above also 63A 3 pole

Blank	Front Opr.
SO	Side Opr., 63 - 160A
TM	Toggle Type, 25 - 125A

Mechanism Type

No. of Poles

3	3 Pole
4	4 Pole

Rated Operational Current
Handle
Handle Shaft
Handle Mounting Kit
Door Mounting Kit, 3P / 4P
Side Operated Mechanism
Toggle Mechanism
Changeover Mechanism
Auxiliary Contact -1 NO + 1 NC, 3P / 4P
Auxiliary Contact - 2 NO + 2 NC, 3P / 4P
Terminal Shrouds
F + - 1 T 1 2 2 4 2

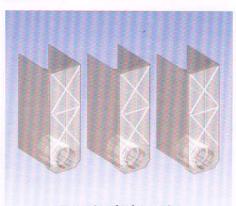
25 - 40 Type D	63 Type K/D	125 Type D
25 / 40	63	125
CSSDZX 104	CSSDZX 104	CSSDZX 104
Sq5 x 70	Sq5 x 70	Sq5 x 70
_	+	4
DMK 1/1A	DMK 1/3	DMK 2/3
×	×	ж
✓	✓	√
CSSDZW6	CSSDZW6/1	CSSDZW6/1
CSSDZX 49/87	CSSDZX 79/55	CSSDZX 52/55
CSSDZX 50/88	CSSDZX 80/56	CSSDZX 53/56
		SF701
2	-	ET325 / ET326
CSSDZW-16	CSSDZW-16	CSSDZW-16

CSSDZW-15





CSSDZW-15



CSSDZW-15









2500 - 3150 Type K

Door Mounting Kit (25A - 125A Type D)

Handle Mounting Kit (200A - 1800A)

1000 - 1800 Type K

63 - 160 Type DM

Handle & Shaft

63 - 160 200 - 31

CSDB 20 CSDB 22

Sq6 x 165 Sq8 x 24

- HMK-2

CSSDZW6/1
CSSDFZX 1
CSSDFZX 16
SF702
ET327 / ET328
CSSDZW-16
CSSDZW-15

200 - 315
CSDB 22
Sq8 x 240
HMK-2
✓
×
CSSDZW6/1
CSSDZX 37
CSSDZX 38
SF703
ET329 / ET330

CSSDZW-5

CSSDZW-4

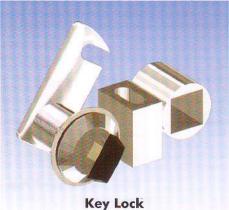
200 - 315 Type DM

200 - 800
CSDB 16
Sq12 x 255
HMK-1
×
ж
CSSFZW11
CSSDZX 33
CSSDZX 34
SF703(200~400)/SF704(630~800)
ET329/ET330 (upto 400A)
CSSDZW-5
CSSDZW-4

200 - 800 Type D/K

2500 - 3150 1000 - 1800 CSDB 28 CSDA 8 Sq12 x 255 Sq12 x 325 HMK-3 CSSFZW12 CSSFZW12 CSSDZX 35 CSSDZX 35 CSSDZX 36 CSSDZX 36 CSSDZW-5 CSSDZW-5 CSSDZW-4 CSSDZW-4

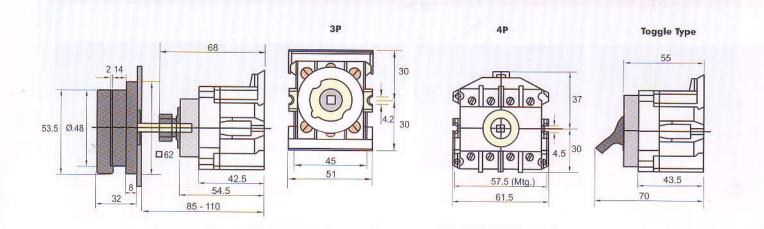


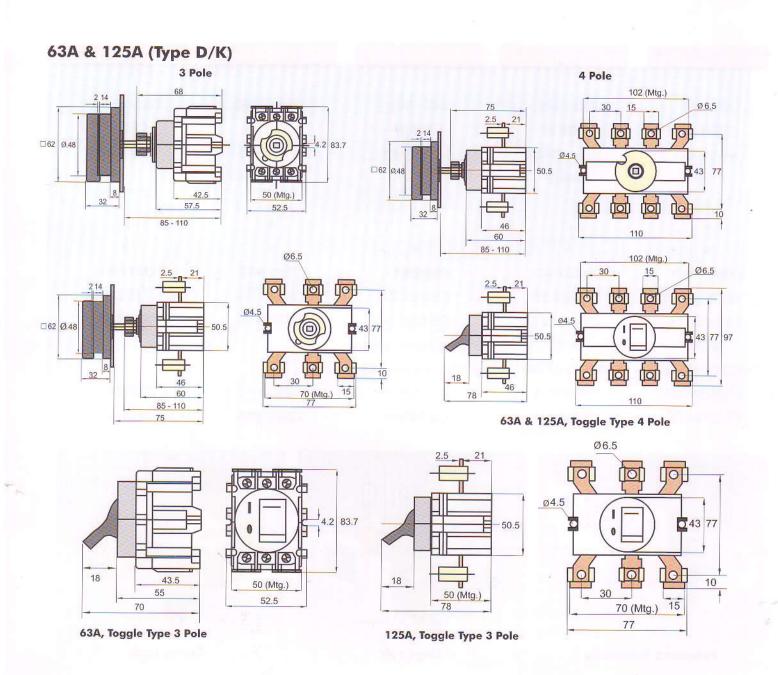




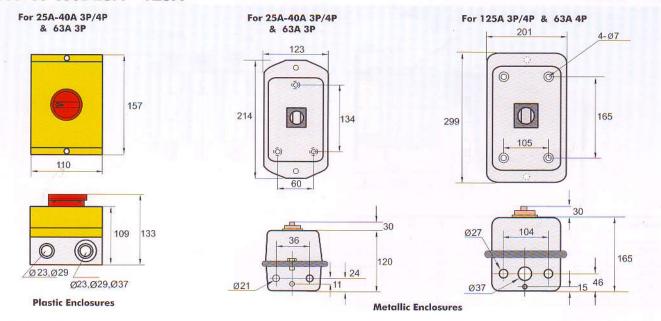


25A & 40A

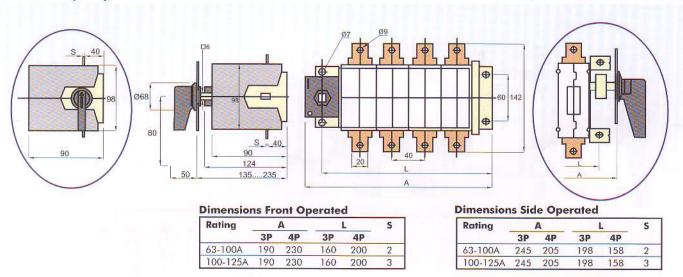




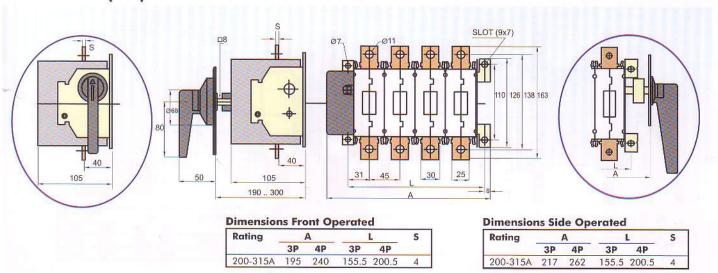
Enclosures CSSD25A - 125A



63A - 160A (DM)



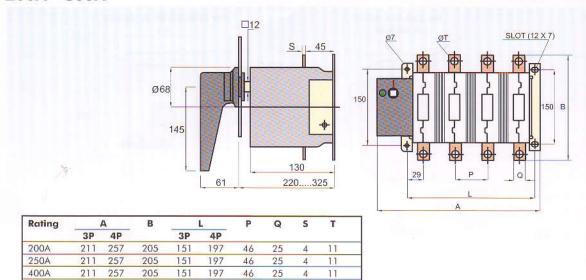
200A - 315A (DM)



LLUSTRATIONS NOT TO SCALE



200A - 800A



1000A - 1800A

244

260 330

306

223

223

183

199

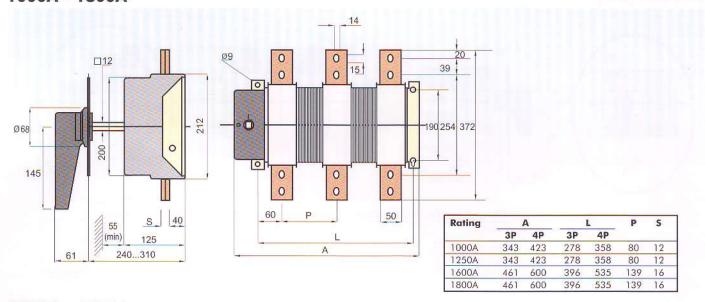
269

70

40

630A

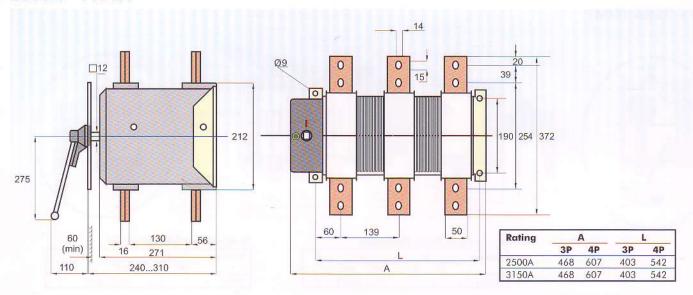
800A



13.5

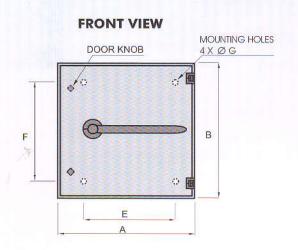
13.5

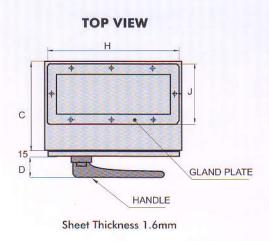
2500A - 3150A



ILLUSTRATIONS NOT TO SCALE

SS Enclosure 63A - 315A (DM) & 200A - 3150A

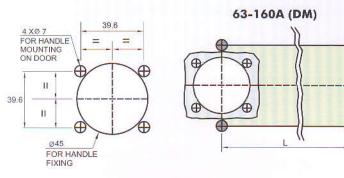




For SS Enclosure

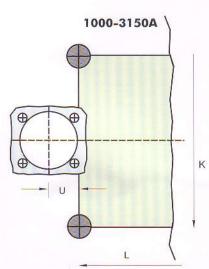
Rating	А	В	C	D	E	F	Н	J
63 - 160 (DM)	325	300	200	61	265	240	320	145
200 - 315 (DM)	400	450	250	61	340	390	395	145
200 - 800	400	450	250	61	340	390	395	145
1000 - 1250	600	600	275	110	540	540	595	145
1600 - 1800	800	600	200	110	740	540	795	145
2500 - 3150	800	600	400	100	740	540	795	145

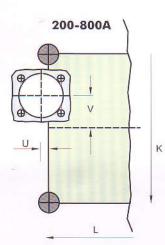
Mounting Details, 63A - 315A (DM) & 200A - 3150A



For Mounting Details

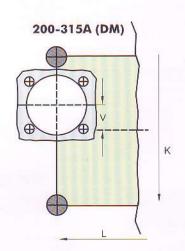
Rating	K	L		M	U	٧
	- COMPANY	TPN	4P	00000		
63A - 160A	60	200	160	7		-
200A - 400A	150	151	197	7	7	28
630A	150	183	245	7	7	28
800A	150	199	269	7	7	28
1000A - 1250A	190	278	358	9	24.5	
1600A - 1800A	190	396	535	9	24.5	-
2500A - 3150A	190	403	542	9	24.5	i÷.





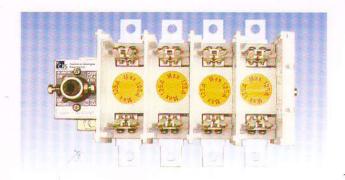
4-ØM

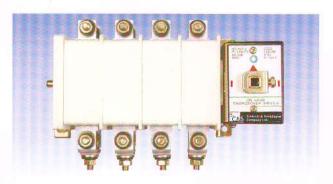
FOR SWITCH MOUNTING IN PANEL

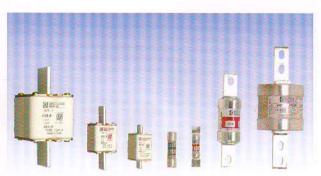


ILLUSTRATIONS NOT TO SCALE

Other Products of Switch Group







Switch Disconnectors Fuse

- 3/4 Pole, 32A 800A
- Side operated, 32A 160A
- Interior as well as in SS enclosure

On-Load Changeovers

- Conventional side by side, 25A 3150A
- Compact Changeovers, 63A 1800A
- Compact By-pass Switches, 63A 1800A
- Compact Switch Fuse Changeovers 63A 800A

HRC Fuse Links & Bases

- DIN type, 6A 630A
- BS type, 2A 800A

Sales Offices:

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Delhi (011) 26918834-36, 5161 3504
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WEST

Mumboi Ph.: (022) 24114727, 24114728
E-mail: tcmum@vsnl.net
Ahmedabad Ph.: (079) 26589132, 26581425
E-mail: tcahm@icenet.net
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SOUTH

Bangalore Ph.: (080) 25586147, 25584839
E-mail: bangalore@controlsindia.com
Kochi Ph.: (0484) 2351125,2361605
E-mail: cochincontrols@vsnl.net
Coimbatore Ph.: (0422) 2213837, 2217514
E-mail: tccini@md5.vsnl.net.in
Chennai Ph.: (044) 26426475, 26426572
E-mail: chennai@controlsindia.com
Secunderabad Ph.: (040) 27813003, 55332304
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BRIDEX

BRIDEX AUSTRALIA PTY LTD Box 260 Frenchs Forest NSW 2086 sales@bridex.com.au www.bridex.com.au

Sydney Brisbane Melbourne Unit 12 20 Narabang Way Belrose NSW 2085 162 South Pine Road Brendale QLD 4500 Unit 12 1 Bell Street Preston VIC 3072 Ph 02 9986 1711 Ph 07 3881 6450 Ph 03 9484 7227 Fax 02 9986 1766 Fax 07 3881 6467 Fax 03 9484 4899