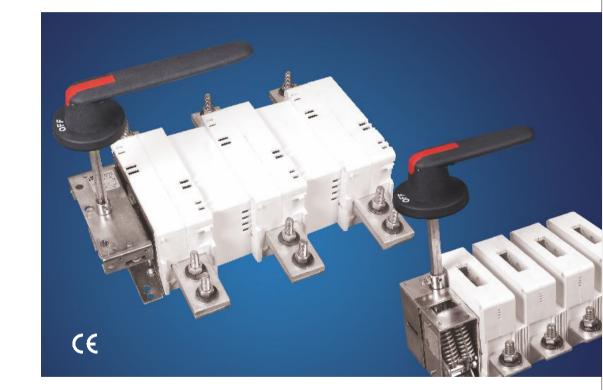
State of the art Manufacturing Facilities



Haridwar, Noida Ph-I & Noida Ph-II Plant







C&S Electric Limited

Corporate Office: 222, Okhla Industrial Estate, New Delhi - 110 020 Tel.: +91-11-3088 7520 - 29, Fax: -91-11-2684 7154, 2682 9063

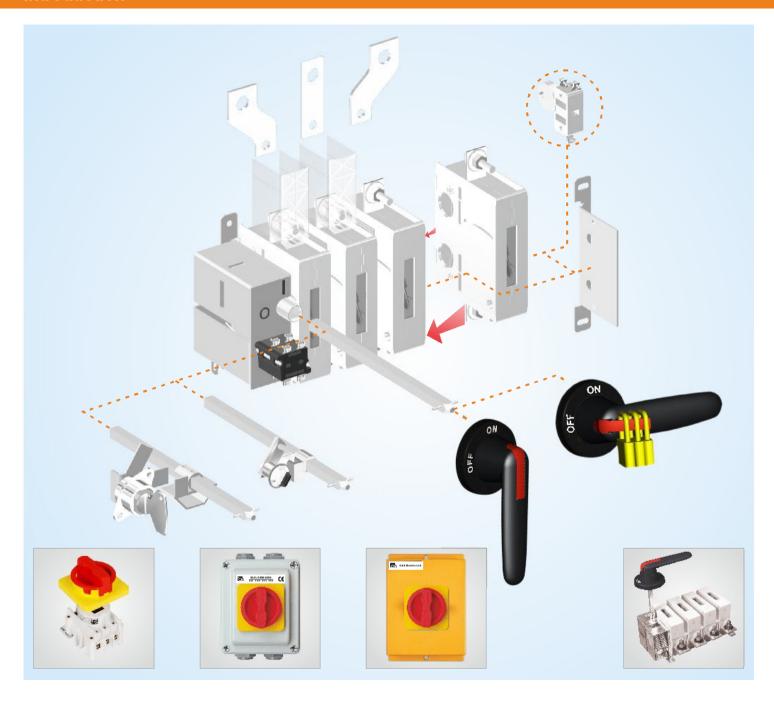
International Business Division: Tel.: +91-11-4161 3503, 3088 7520-29, Fax: +91-11-2683 8291, 2684 7342 email: exports@cselectric.co.in

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Switch Disconnectors



Rugged construction, Integrating end user convenience with installation flexibility

C&S Electric offers a wide range of Switch Disconnectors (On Load Break Switches) - 25A to 3150A, suitable for operation upto 750/1000V. Available in 3 Pole as well as 4 Pole, interiors as well as in enclosure, they are suitable for AC23A utilization category and confirm to IEC 60947-3/IS 13947-3.

Available in ratings of 63A and above. These switches are of single pole construction, enabling combination up to 8 poles. Thus, modular yet rugged construction, with all poles including the neutral having 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 suited and economical for any applications.

- Main Incomer Switch
- 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 occupying least panel space yet allowing ease of installation and rendering it safe for maintenance.

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

Multiple accessories suiting application requirements enhance the flexibility of operation and safety level of installation. These switches also facilitate and 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 are ideal for breaking stalled motor current, 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.

Modular and user friendly

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 - 3 and CPRI, ERDA for conformity to Indian Standards IS 13947 - 3. These also conform to the safety regulations adopted in the European Union and carry the CE marking.

OEMs and panel assemblers can be re-assured that the design is being used and exported to many countries 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 multi-pole formation upto 8 poles.

This arrangement offers flexibility of placing mechanism in between the poles, 63A-800A, switches with side operated mechanism are also offered.

Every pole has 100% rating and operates with same reliability. As each pole is independent of the 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

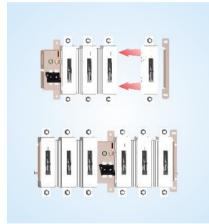
Efficient Switching & Long life

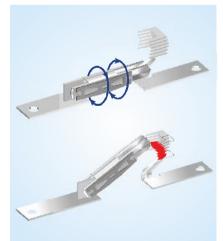
Switch Disconnectors of rating 200A and above employ unique Knife Contact Mechanism, which uses magnetic attraction principle in iron circuit on the moving contacts. As current increases, automatically the contact force too increases, ensuring - good contacts at all times, high making and breaking capacity 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 identical 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.

During each switching, the knife contacts cleans itself. 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 space below the switch while aligning it with enclosure door. It permits installation of the switch in installations of varying depths, without any modification of the enclosure.

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 suitability for diverse application, enhance operational flexibility and improve installation safety.

Handle mounting kit allows complete Switch to be 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 for 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 pioneered the concept of positive isolation in case of welding of contacts. In the event of extremely high current leading to welding of contacts, the handle will not turn beyond 45° from the ON position, clearly indicates that the supply is ON and contacts get welded.

Convenience of clear contacts visibility, permits contact position inspection, without removing the switch from installation, thus enhancing reliability and saving valuable down 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 in the ON position. Using a suitable gasket alongwith handle enhances ingress protection level to IP 54.

Technical Data

Common Characteristics		
Conformity to Standards	-	IS/IEC 60947-3
Rated Operational Voltage (Ue)	V	415
Rated Operational Frequency	Hz	50 / 60
Suitability for Isolation	-	YES
Pollution Degree as per IEC / IS	-	3
Ambient / Cubicle Service Temp.	°C	40
IP Level after mounting	-	IP 54
Number of Poles	-	3/4P*

(4th Pole always 100% rated in 4 Pole switches)
*Other Pole configuration available on request

Replace • with 3 in case of 3 pole or with 4 in case of 4 pole









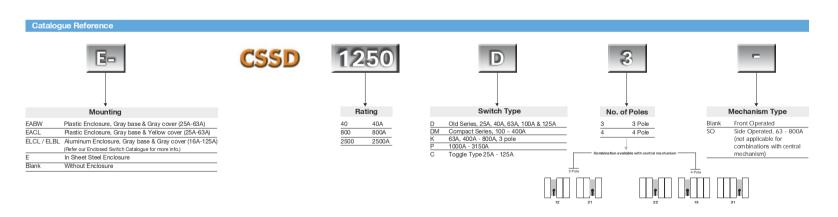
Combination availa	able with central mechanism (100DM & abov	re) 4 Pole	
		1	1
12 21	22	13	31
	(replace ■■ with)		

Parameters				D Ty	/pe	К Туре	D Type	DM	Туре
				25	40	63	125	125	160
Rated insulation voltage and Rated operational voltage AC-20 and DC-20	pollution degree 3	50 Hz 1 min	V	660	660	660	660	1000	1000
Dielectric strength			kV	6	6	6	6	6	6
Rated impulse withstand voltage			kV	4	4	4	4	8	8
Rated thermal current in ambient 40°C	in open air		А	25	40	63	125	125	160
	In Enclosure		Α	25	40	63	125	125	160
Min. cable cross section		Cu	mm²	6	10	16	50	50	70
Rated operational current AC -21 A		upto 415V	А	25	40	63	125	125	160
		440-690V	А	25	40	63	125	125	160
Rated operational current AC -22 A		upto 415V	А	25	40	63	125	125	160
		440-500V	Α	25	40	63	125	125	160
		690V	А	-	-	-	-	125	160
Rated operational current AC -23 A		upto 415V	А	25	40	63	125	125	160
		440V	А	20	25	40	63	70	100
		500V	Α	20	25	32	63	70	100
		690V	Α	16	25	32	50	50	63
Rated operational current/poles in serires DC - 21 A		48V	А	25/3	40/3	63/3	125/3	125/2	160/2
		110	Α	25/3	40/3	63/3	125/3	125/3	160/3
		220	Α	25/3	40/3	63/3	125/3	125/3	160/3
Rated operational current/poles in serires DC - 22 A		48V	Α	25/3	40/3	63/3	75/3	125/2	160/2
		110V	Α	25/3	40/3	63/3	75/3	125/3	160/3
		220V	Α	25/3	40/3	50/3	50/3	125/3	160/3
Rated operational current/poles in serires DC - 23 A		48V	Α	25/3	40/3	63/3	75/3	125/2	160/2
		110V	Α	-	-	35/3	50/3	125/3	160/3
		220V	А	-	-	25/3	50/3	125/3	160/3
Rated operational power AC- 23 2		220-240V	kW	4	7.5	15	22	22	45
The KW - ratings are accurate for three - phase 1500 R.P.M standard asynchronous motors.		400-415	kW	7.5	11	25	37	37	75
standard asynchronous motors.		440V	kW	7.5	11	25	37	37	75
		500 V	kW	7.5	15	25	37	37	75
		690 V	kW	11	15	25	45	45	75

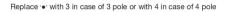
2) IEC-947-3, utilization category B, infrequent operation

Technical Data

Parameters				DT	уре	К Туре	D Type	DM	Туре
				25	40	63	125	125	160
Rated breaking capacity in category AC-23		upto 415V	А	200	320	504	1000	1000	1280
		440V	А	160	200	320	504	560	800
		500V	А	160	200	256	504	560	800
		690V	А	128	200	256	400	400	504
Rated breaking capacity/poles in series in category DC-23		upto 48 V	А	200/3	200/3	250/3	300/3	500/2	640/2
		110V	А			150/3	300/3	500/3	640/3
		220V	А			100/3	200/3	500/3	640/3
Rated conditional Short Circuit current r.m.s		690V/500V	kA	-	-	-	-	-	-
Rated conditional short circuit current r.m.s	Cut Off/Back up fuse Rating	50KA, 415V	kA	6/25	6/40	8/63	13/125	13/125	18/160
and corresponding cut off current of the fuse		50KA,500V	kA	6/25	6/40	8/63	13/125	13/125	18/160
in single phase test according to IEC 269		50KA, 690V	kA	4/25	4/40	6/63	10/125	10/125	10/160
		80KA, 500V	kA	6.5/25	6.5/40	10/63	15/125	15/125	20/160
		690V 1 sec	kA	0.5	0.5	1	1.5	2.5	5
Rated short circuit making capacity	Peak value Icm	690/500 V	kA	0.7	0.7	1.4	2.7	3.6	7
Rated capacitor power	the capacitor rating are limited by the fuse link	400~415 V	kVAr				50	50	60
Power loss/ pole	at rated operational current		W	0.6	1.6	2.8	6.3	6.3	9
Mechanical endurance	Divided by two for operational cycle		Oprs.	20000	20000	20000	20000	20000	20000
Electrical Endurance	At 0.65pf		Oprs.	5000	5000	5000	5000	5000	5000
Weight without accessories	with handle and shaft	3 pole	kg	0.2	0.2	0.3	0.4	1.6	1.8
		4 pole	kg	0.25	0.25	0.4	0.5	2	2.25
Terminal bolt size	Metric thread diameter x length		mm					M8x25	M8x25
Terminal tightening torque	counter torque required		Nm	0.8	0.8	2	6	8	8
Operating Torque	3-pole switch disconnector		Nm	1	1	1.2	2	2.5	2.5



Common Characteristics		
Conformity to Standards	-	IEC 60947-3 / IS 13947-3
Rated Operational Voltage (Ue)	V	415
Rated Operational Frequency	Hz	50 / 60
Suitability for Isolation		YES
Pollution Degree as per IEC / IS		3
Ambient / Cubicle Service Temp.	°C	40
IP Level after mounting	-	IP 54
Number of Poles (4th Pole always 100% rated in 4 Pole switches) *Other Pole configuration available on request	-	3P / 4P*











Combination av	ailable with central mechanism –	4 Pole	
		1	1
12 21	22	13	31
(repl	ace ■■ with)		

Parameters					DM	Туре			K Type				P/K Type		
				200	250	315	400	400	630	800	1000	1250	1600	2500	3150
Rated insulation voltage and Rated operational voltage AC-20 and DC-20	pollution degree 3	50 Hz 1 min	V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Dielectric strength			kV	10	10	10	10	10	10	10	8	8	8	8	8
Rated impulse withstand voltage			kV	12	12	12	12	12	12	12	8	8	8	8	8
Rated thermal current in ambient 40°C	in open air		А	250	315	350	400	400	630	800	1000	1250	1600	2500	3150
	In Enclosure		А	200	250	315	400	400	630	800	1000	1250	1600	2300	2600
Min. cable cross section		Cu	mm²	95	120	185	2x150	2x150	2x185	2x240	2x(60x5)	2x(80x5)	2x(100x5)	4x(100x5)	3x(100x10
Rated operational current AC -21 A		upto 415V	А	200	250	315	400	400	630	800	1000	1250	1600	2500	3150
		440-690V	Α	200	250	315	400	400	630	800	1000	1250	1600	2500	3150
		1000V	А	200	250	315	400	400	630	630	1000	1250	1600	1000	1000
Rated operational current AC -22 A		upto 415V	А	200	250	315	400	400	630	800	1000	1250	1600	1600	1600
		440-500V	А	200	250	315	400	400	630	800	1000	1250	1600	1600	1600
		690V	А	200	250	315	400	400	630	800	-	-	-	-	-
		1000V	Α	200	250	315	400	400	630	630	-	-	-	-	-
Rated operational current AC -23 A		upto 415V	А	200	250	315	400	400	630	720	1000	1000	1000	1000	1000
		440V	А	200	250	315	400	400	590	670	-	-	-	-	-
		500V	А	200	250	315	400	400	580	600	-	-	-	-	-
		690V	А	200	250	315	350	350	350	350	-	-	-	-	-
		1000V	Α	125	125	125	125	125	150	150	-	-	-	-	-
Rated operational current/poles in serires DC - 21 A		48V	А	200/2	250/2	315/2	400/2	400/1	630/1	800/1	1000/1	1250/1	1600/1		
		110	А	200/2	250/2	315/2	400/2	400/2	630/2	800/2	1000/2	1250/2	1600/2		
		220	А	200/2	250/2	315/2	400/2	400/2	630/2	800/2	1000/3	1250/3	1600/3		
		440	А	200/3	250/3	315/3	400/3	400/3	630/3	800/3	-	-	-	-	-
		750	А	200/4	250/4	315/4					-	-	-	-	-
Rated operational current/poles in serires DC - 22 A		48V	А	200/2	250/2	315/2	400/2	400/1	630/1	800/1	-	-	-	-	-
		110V	А	200/2	250/2	315/2	400/2	400/2	630/2	800/2	-	-	-	-	-
		220V	А	200/2	250/2	315/2	400/2	400/2	630/2	800/2	-	-	-	-	-
		440V	А	200/3	250/3	315/3	400/3	400/3	630/3	800/3	-	-	-	-	-
		750V	А	200/4	250/4	315/4					-	-	-	-	-

Technical Data

Parameters					DM	Туре			К Туре				P/K Type		
				200	250	315	400	400	630	800	1000	1250	1600	2500	3150
Rated operational current/poles in series DC-23 A		48V	А	200/2	250/2	315/2	400/2	400/1	630/1	800/1	-	-	-	-	-
		110V	А	200/2	250/2	315/2	400/2	400/2	630/2	800/2-	-	-	-	-	
		220V	А	200/2	250/2	315/2	400/2	400/2	630/2	800/2	-	-	-	-	-
		440V	А	200/3	250/3	315/3	400/3	400/3	400/3	400/3	-	-	-	-	-
		750V	А	200/4	250/4	315/4	-	-	-	-	-	-	-	-	-
Rated operational power AC-23 ²		220-240V	kW	55	75	90	132	132	180	200	250	250	250	250	250
The KW-ratings are accurate for three-phase		400-415	kW	110	132	160	200	200	315	355	400	400	400	400	400
1500 R.P.M standard asynchronous motors.		440V	kW	110	132	160	315	315	355	355	400	400	400	400	400
		500 V	kW	132	160	200	315	315	355	355	450	450	450	450	450
		690 V	kW	170	200	250	315	315	355	355	-	-	-	-	-
Rated breaking capacity in category AC -23		upto 415V	A	1600	2000	2520	3200	4000	5040	5760	8000	8000	8000	8000	8000
		440V	Α	1600	2000	2520	3200	4000	4720	5360	-	-	-	-	-
		500V	A	1600	2000	2520	3200	4000	4640	4800	-	-	-	-	-
		690V	Α	1600	2000	2520	2800	2800	2800	2800	-	-	-	-	-
Rated breaking capacity/poles in series in category DC -23		upto 48 V	Α	800/2	1000/2	1260/2	-	-	-	-	-	-	-	-	-
		110V	Α	800/2	1000/2	1260/2	-	-	-	-	-	-	-	-	-
		220V	Α	800/2	1000/2	1260/2	-	-	-	-	-	-	-	-	-
		440V	Α	800/3	1000/3	1260/3	-	-	-	-	-	-	-	-	-
		750V	Α	800/4	1000/4	1260/4	-	-	-	-	-	-	-	-	-
Rated conditional Short Circuit current r.m.s		690V/500V	kA	-	-	-	-	-	-	-	50	50	50	50/63	50/63
Rated conditional short circuit current r.m.s	Cut Off/Back up fuse Rating	50KA, 415V	kA	25 200	27 250		36 400	36 400	54 630	63 800	105	105	105	140	140
and corresponding cut off current of the fuse		50KA,500V	kA	25 200	27 250		36 400	36 400	54 630	63 800	105	105	105	140	140
in single phase test according to IEC 269		50KA, 690V	kA	25 200	27 250		36 400	36 400	54 630	63 800	105	105	105	105	105
		80KA, 500V	kA	28 200	30 250	32 315	42 400	42 400	60 630	70 800	-	-	-	-	-
Rated short time withstand current	R.M.SValue Icw	690V 0.2 sec	kA	17.5	17.5	17.5	17.5		38	38	-	-	-	-	-
		690V 0.25 sec	kA	-	-	-	-	31	-	-	56	56	56	-	-
		690V 1 sec	kA	8	8	8	12	17	17	17	50	50	50	-	-
Rated short circuit making capacity	Peak value Icm	690/500 V	kA	35	35	35	35	65	80	80	105	105	105	105/140	105/140
Rated capacitor power	the capacitor rating are limited by the fuse link	400~415 V	kVAr	90	110	140	180	250	300	330	-	-	-	-	-
Power loss/ pole	at rated operational current		W	3.5	5.5	8.5	12	13	22	40	27	40	67	90	140
Mechanical endurance	Divided by two for operational cycle		Oprs.	16000	16000	16000	10000	10000	10000	10000	6000	6000	6000	1200	1200
Electrical Endurance	At 0.65pf		Oprs.	1000	1000	1000	1000	1000	500	500	500	500	500	100	100
Weight without accessories	with handle and shaft	3 pole	kg	3	3	3	3.3	5.2	6.2	6.2	16.3	16.3	17.5	37	37
		4 pole	kg	3.7	3.7	3.7	4	6.4	7.6	7.6	20.5	20.5	22.5	47	47
Terminal bolt size	Metric thread diameter x length		mm	M8x25	M10x30	M10x30	M10x40	M10x40	M12x40	M12x40	M12x60	M12x60	M12x60	M12x60	M12x60
Terminal tightening torque	counter torque required		Nm	3044	3044	3044	3044	3044	5075	5075	5075	5075	5075	5075	5075
Operating Torque	3-pole switch disconnector		Nm	8.2	8.2	8.2	8.2	17	21	21	21	21	21	50	50

Ratings	25 - 40 Type D	63 Type K/D	100-125 Type D
Handle - Black 7)	CSSDZX111	CSSDZX111	CSSDZX104
Handle Shaft	CSP5X70	CSP5X70	CSP5X70
Handle Mounting Kit	-	-	-
Door Mounting Kit, 3P / 4P	DMK1/1A	DMK1/3	DMK2/3
Changover Mechanism	CSSDZW 6	CSSDZW 6/1	CSSDZW 6/1
Auxiliary Contact - 1NO + 1NC, 3P-4P	CSSDZX 49/87	CSSDZX 79/55	CSSDZX 52/55
Auxiliary Contact - 2NO + 2NC, 3P-4P	CSSDZX 50/88	CSSDZX 80/56	CSSDZX 53/56
Terminal Shrouds	=	=	SF701
Extended Terminals, 3P/4P	-	-	ET325/ET326
Key Interlock	CSSDZW-16	CSSDZW-16	CSSDZW-16
Castle Lock	CSSDZW-15	CSSDZW-15	CSSDZW-15
Neutral Link	-	-	-

100 - 160 Type DM	200 - 400 Type DM	400 - 800 Type D/K	1000 - 1600 Type P	2500 - 3150 Type P
CSWH 80 S6	CSWH 80 S8	CSWH 145 S12	CSWH 220 S12	CSWH 220 S12/CSDA 86)
CSP6X165	CSP8X240	CSP12X255	CSP12X255	CSP12X325
=	HMK-2	HMK-1-1	HMK-3-1	-
=	-	=	=	-
CSSDZW 6/1	CSSDZW 6/1	CSSDZW 11	CSSDZW 12	CSSDZW 12
CSSDZX 1	CSSDZX 37	CSSDZX 33	CSSDZX 35	CSSDZX 35
CSSDZX 16	CSSDZX 38	CSSDZX 34	CSSDZX 36	CSSDZX 36
SF702	SF703	SF703(200-400)/SF704(630-800)	-	-
ET327/ET328	ET329/ET330	ET329/ET330(upto 400A)	-	-
CSSDZW-16	CSSDZW-5	CSSDZW-5	CSSDZW-5	CSSDZW-5
CSSDZW-15	CSSDZW-4	CSSDZW-4	CSSDZW-4	CSSDZW-4
-	-	CSSDFZX85	CSSDZX159	CSSDZX159(2Nos.)

3) PF 0.95 4) PF 0.65 5) Max. Distance between busbar support and switch terminal shall be 70 mm 6) Metallic Handle (CSDA 8) for 2500 ~3150A 7) Red / Yellow available on request.

Accessories & Drawings

Mounting Instruction for Accessories

Auxiliary Contact

For CSSD25-125A

- Unscrew the two grub screws and remove the bush from the switch.
- Fit the auxiliary bracket onto the switch and place the locking bush on it.
- Fit the cam and screw it with the locking bush.
- Fit auxiliary contact at the corner and screw it diagonally.
- Fit the two NO/NC auxiliary at the other corner and screw it properly, if required.

For CSSD100-160A Compact (ZX1, ZX16)

- Place the auxiliary and name plate at rear end (opposite to mechanism) by ensuring name plate between auxiliary and switch and screw them properly.
- Fit the cam on the main shaft and screw it on the flat surface of the shaft.

For CSSD200-400A Compact (ZX 37, ZX38)

- Fit the auxiliary contact on the top of mechanism and screw it diagonally at the provided holes properly.
- Fit the two NO/NC auxiliary at the top of the auxiliary and screw it diagonally, if required.

For CSSD 400-800A (ZX33, ZX34)

- Fit the auxiliary contact on the top of mechanism and screwit diagonally on the provided thread.
- Fit the two NO/NC auxiliary at the top of the auxiliary and screw it diagonally, if required.

For CSSD1000-3150A (ZX35, ZX36)

- Fit the cam on the tubular shaft with the square bush.
- Fit the auxiliary contact along with the bracket (Z type) by screwing diagonally, if provided separately.
- Place and screw the auxiliary contact onto the mechanism by matching of bracket hole and tubular shaft.

Auxiliary Contacts ratings

- Thermal Rating 10A
- AC 15@415V 4A
- DC 13@220V 1A



Auxiliary Contacts - 200A & above



Auxiliary Contacts - 100A to 160A



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

Castle Lock

- Make a hole in panel door for fitment of castle lock as per given drawing.
- Fit the castle lock onto the panel door from front.
- Fit the lever onto the lock shaft in unlock position from back and tighten the lever by providing U clamp and screw.
- Fit the Square pipe assembly with the switch main shaft and adjust the position so that the lever can lock it from behind of this assembly and tighten the screw.

Key Interlock

- Make a hole in the panel door for castle lock fitment as per given drawing.
- Fit the key lock onto the panel door from front.
- Fit the lever onto the lock shaft and circlip it in unlock position.
- Fit the square pipe assembly with the switch main shaft and adjust the position so that the lever can lock it in grove provided and tighten the screw.

Door Mounting Kit (25-125A)

- Fit the switch at the rear using din rail mounting channel.
- Mount the channel using hole provided for screwing on the door.

Handle mounting Kit (200A-1800A)

- Unscrew the bolt (provided for earthing on mechanism) and Philips head screw (given below the earth bolt) as shown in model.
- Fit the handle mounting bracket and tighten the bolt and screw.
- Fit the handle assembly on given profile of the mounting kit.



Castle Lock

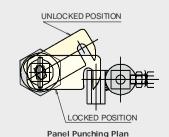


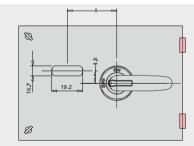
Key Lock



Handle Mounting Kit (200A - 1800A)

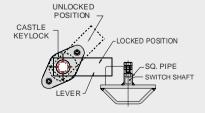
Key Interlock





Catalogue No. Type of Switch		'A'
CSSDZW16	CSSD 25~160A	60.7 ±0.3
CSSDZW5	CSSD 200~3150A	66.0 ±0.3

Castle Lock



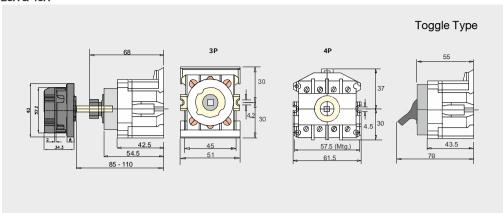
Panel Drilling Plan

Catalogue No. Type of Switch
CSSDZW15 CSSD 25~160A
CSSDZW4 CSSD 200~3150A

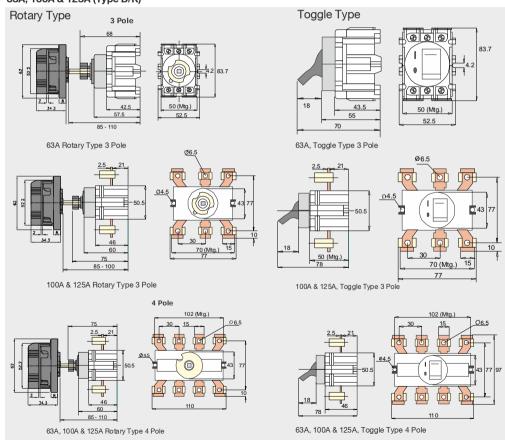


Dimensional Details

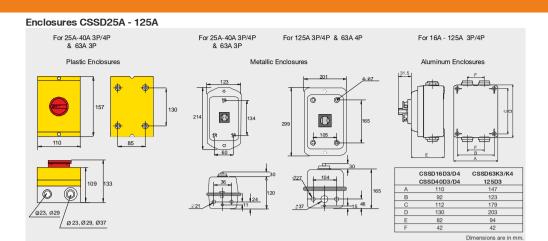
25A & 40A



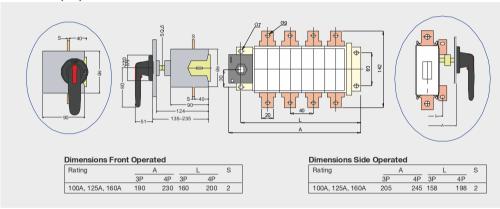
63A, 100A & 125A (Type D/K)



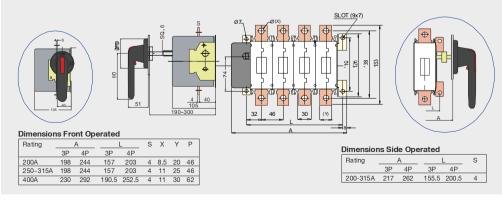
ILLUSTRATIONS NOT TO SCALE



100A - 160A (DM)



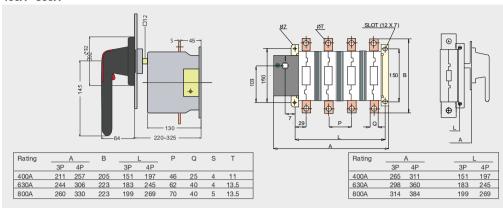
200A - 400A (DM)



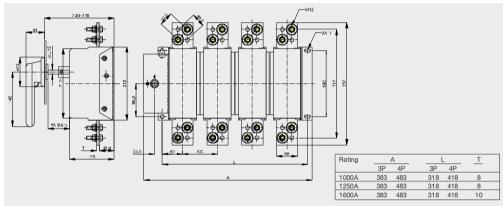
ILLUSTRATIONS NOT TO SCALE

Dimensional Details

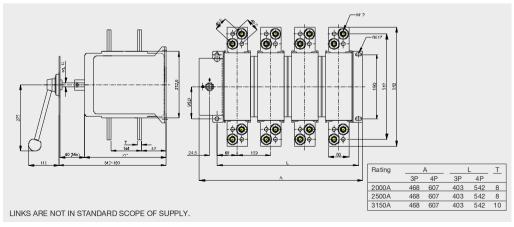
400A - 800A



1000A - 1600A

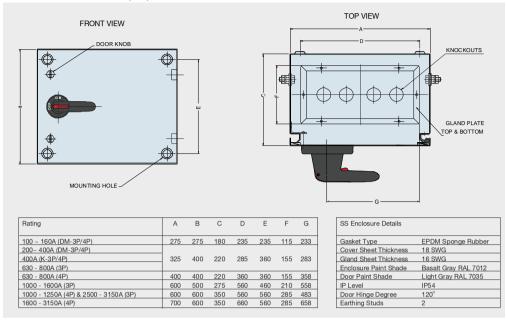


2000A - 3150A

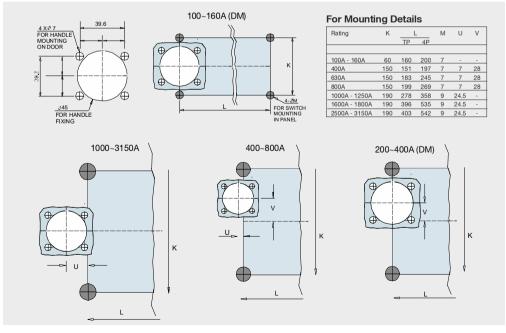


ILLUSTRATIONS NOT TO SCALE.

SS Enclosure 100A - 400A (DM) & 400A - 3150A



Mounting Details, 100A - 315A (DM) & 200A - 3150A



ILLUSTRATIONS NOT TO SCALE