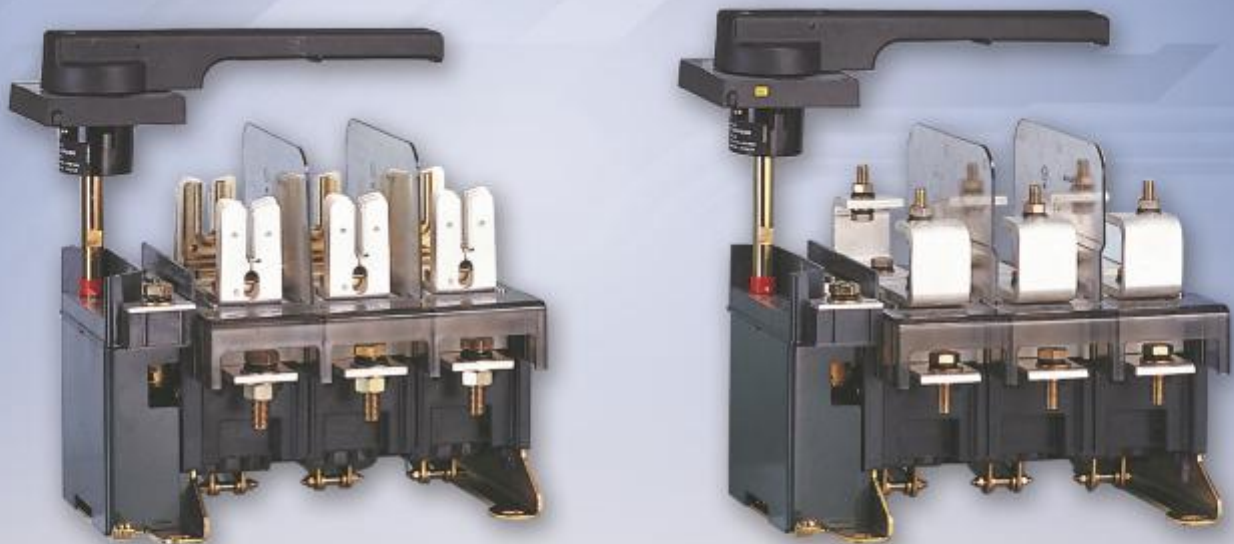




Switch-Disconnecter-Fuse Switch-Disconnecter

Type FN

About us

Larsen & Toubro infuses engineering with imagination. The Company offers a wide range of advanced solutions in the field of Engineering, Construction, Electrical & Automation, Machinery and Information Technology.

L&T Switchgear, a part of the Electrical & Automation business, is India's largest manufacturer of low voltage switchgear, with the scale, sophistication and range to meet global benchmarks. With over five decades of experience in this field, the Company today enjoys a leadership position in the Indian market with a growing international presence.

It offers a complete range of products including powergear, controlgear, industrial automation, building electricals & automation, reactive power management, energy meters, and protective relays. These products conform to Indian and International Standards.



Switchgear Factory, Mumbai



Switchgear Factory, Ahmednagar

Salient Features of SDF

Features of FN series:

- Compact design saves space
- Electrodynamic compensation
- Quad break contact system
- Full AC - 23 A rating for the complete range
- Highest fused short circuit capacity
- Quick make / Quick break / Positive break
- Clear ON / OFF indicator
- Separate arcing / Current carrying zone
- High clearance & creepages
- Separate bridge for each pole
- Maximum ground clearance
- Phase barrier & Terminal Shroud as a standard accessory
- Fuse stationary & isolated from both sides
- Direct access to mounting & terminal screws
- Generous terminal capacity
- Replaceable contacts for enhanced life
- Suitable for vertical & horizontal orientation
- Wide range of Spares & Accessories
- Handle coupling as per IS 8623



High making & breaking capacity due to quad break construction. High Electrical & Mechanical life.

Compact construction:

To ensure light weight low operating torque switch which saves panel space.

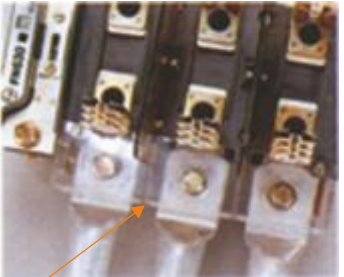
Easy to maintain contacts.

Phase barriers:

Interface barriers are provided to eliminate the possibility of interface short circuit.

Contact System:

Contact system is **QUAD BREAK**. There are no. of parallel moving contacts per pole per break. Hence, better arc quenching & more electrical life of contacts. Each pole has separate bridge carrying the moving contacts, achieving a high order of interphase separation & avoiding phase-phase flash over.



Terminal shrouds:

The terminals can be shrouded for protection against phase-phase short circuit through an external conducting path and also for protection against accidental human contact with live terminals.

Terminals:

To accommodate Aluminium bus bars.



The handle coupling has the following user-friendly features.

Easy fixing of handle on panel door by two screws.

Door interlock for safety of operating personnel when switch is 'ON'. The interlock can be defeated if required.

Built-in padlocking arrangement to lock the unit in either 'ON' or 'OFF' position.

The handle coupling can take a mismatch or $\pm 3\text{mm}$ in all directions.

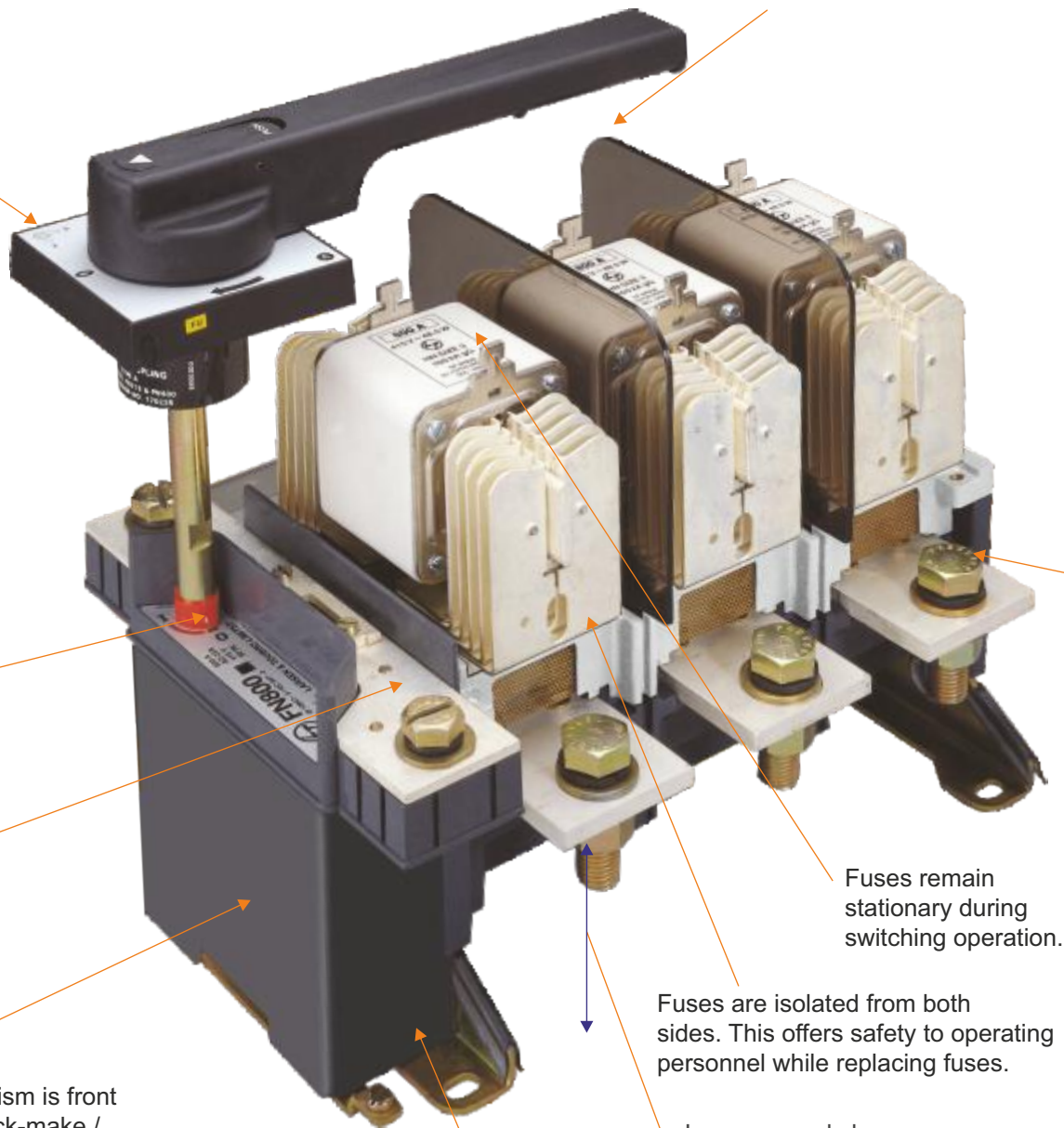
Clear ON / OFF indication is provided on the switch (by a red pointer).

Built-in neutral:

Switch-Disconnecter-Fuse consists of an integral neutral, making the units suitable for 3 phase, 4 - wire application. FN 32 / 63 has switched neutral while higher ratings have isolable neutral.

Mechanism:

This mechanism is front operated quick-make / quick-break and independent of speed of operation.



Fuses remain stationary during switching operation.

Fuses are isolated from both sides. This offers safety to operating personnel while replacing fuses.

Large ground clearance to eliminate possibility of phase-ground flash over.

The Switch-Disconnecter-Fuse units can be mounted at any angle in a vertical plane.

SDF Interior in Spacious Sheet Steel Enclosure: Complete range of SDF is also available in attractive powder coated sheet steel enclosures, fitted with cable gland plate.

Technical Data

Switch-Disconnecter-Fuse Units - Type FN
Conforms to IEC 60947-3, IS / IEC 60947-3

Type Designation		FN 32	FN 63	FN 100	FN 125	
No. of Poles		3+Neutral	3+Neutral	3+Neutral	3+Neutral	
Neutral #		Switched	Switched	Isolable	Isolable	
Service temperature		-20 to 50	-20 to 50	-20 to 50	-20 to 50	
Rated operational voltage (U _e)		415	415	415	415	
Rated insulation voltage (U _i)	°C	690	690	690	690	
Rated impulse withstand voltage (U _{imp})	V	8	8	8	8	
Rated frequency	V	50 - 60	50 - 60	50 - 60	50 - 60	
Conventional enclosed thermal current at 40°C (I _{the})	kV	32	63	100	125	
Rated operational current (I _e) at AC - 23 A	Hz	32	63	100	125	
Rated making capacity (436 V, cosØ = 0.35)	A	320	630	1000	1250	
Rated breaking capacity (436 V, cosØ = 0.35)	A	256	504	800	1000	
Mechanical life (Operating cycles)	A	15000	15000	15000	15000	
Terminal capacity (main)	A	35	35	95	95	
Terminal capacity (neutral)	mm ²	35	35	50	50	
Terminal screw	mm	M 6 x 12	M 6 x 12	M 8 x 20	M 8 x 20	
Capacitor duty - 415 V, 50 - 60 Hz	kVAr	14	29	45	57	
DC Rating at 220 V DC						
No. of poles in series, utilization category at rated current		3, DC-23 A	3, DC-23 A	2, DC-23 A	2, DC-23 A	
Suitable L&T fuse						
DIN	Rated fused short circuit current	kA	80**	80**	100	100
	Rating	A / Type / Size	32 / HF / 14 x 51	63 / HF / 14 x 51	100 / HN / 00	125 / HN / 00
BS	Rated fused short circuit current	kA	80	80	80	80
	Rating	A / Type / Size	32 / HQ / A1L	63 / HQ / A1L	100 / HQ / A3 & A4	125 / HQ / A4

* ----- Power factor = 0.45 as required in IS 13947 - (part 3).
----- For FN 125 to FN 800 Switched - Neutral is available as accessory.
** ----- Suitable for cylindrical fuses.

Ordering Information

Ordering Suffix OOOO for all * Example: FN 32 Interior with handle * Ordering Information - SK95518OOOO

Description	FN 32	FN 63	FN 100	FN 125
SDF suitable for DIN Fuses				
Interior with handle TPN	SK95518	SK95421	SK95568	SK95001
Interior in Spacious sheet steel enclosure	SK90483	SK90484	SK90485	SK90486
Interior with handle TP			ST30287	ST27894
SDF Suitable for BS Fuses				
Interior with handle TPN	SK95653	SK95651	SK95570	SK95009

FN 160	FN 200	FN 250	FN 315	FN 400	FN 630	FN 800
3+Neutral	3+Neutral	3+Neutral	3+Neutral	3+Neutral	3+Neutral	3+# Neutral
Isolable	Isolable	Isolable	Isolable	Isolable	Isolable	Isolable
-20 to 50	-20 to 50	-20 to 50	-20 to 50	-20 to 50	-20 to 50	-20 to 50
415	415	415	415	415	415	415
690	690	690	690	690	690	690
8	8	8	8	8	8	8
50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	56-60
160	200	250	315	630	630	800
160	200	250	315	630	630	800
1600	2000	2500	3150	6300	6300	8000
1280	1600	2000	2520	5040	5040	6400
15000	10000	100000	10000	10000	10000	10000
185	240	240	400	2 x 400	2 X 625	2 X 625
50	120	120	240	240	400	400
M 8 X M 20	M 10 x 30	M 10 x 30	M 10 x 30	M12 x 40	M 16 x 50	M 16 x 50
57	92	115	145	240	270	270
2, DC-23 A	2, DC-23 A	2, DC-23 A	2, DC-23 A	2, DC-23 A	2, DC-23 A	2, DC-23 A
100	100	100	100	100	100	100
160 / HN / 00	200 / HN / 0	250 / HN / 1	315 / HN / 1	400 / HN / 2	630 / HN / 3	800 / HN / 3
80	80	80	80	80	80	
160 / HQ / A4	200 / HQ / B2	250 / HQ / B2 & B3	315 / HQ / B3	400 / HQ / B4	630 / HQ / C2	

FN 160	FN 200	FN 250	FN 315	FN 400	FN 630	FN 800
SK95713	SK95418	SK95642	SK95461	SK95481	SK95521	SK95679
SK90487	SK90488	SK90489	SK90490	SK90491	SK90492	SK90493
SK95998	ST27895	ST31731	ST27897	ST27898	ST27899	ST31732
SK95714	SK95588	SK95682	SK95590	SK95591	SK95592	

Technical Data

Switch-Disconnecter - Type FN
Conforms to IEC 60947-3, IS / IEC 60947-3

Type Designation	FN 32	FN 63	FN 100	FN 125
No. of Poles	3+Neutral	3+Neutral	3+Neutral	3+Neutral
Neutral	Switched	Switched	Isolable	Isolable
Service temperature °C	-20 to 50	-20 to 50	-20 to 50	-20 to 50
Rated operational voltage (U _e) V	415	415	415	415
Rated insulation voltage (U _i) V	690	690	690	690
Rated impulse withstand voltage (U _{imp}) kV	8	8	8	8
Rated frequency Hz	50 - 60	50 - 60	50 - 60	50 - 60
Conventional enclosed thermal current at 40°C (I _{the}) A	32	63	100	125
Rated operational current (I _e)				
AC 20 A utilization category A	32	63	100	125
AC 21 A utilization category A	32	63	100	125
AC 22 A utilization category A	32	63	100	125
AC 23 A utilization category A	32	63	100	125
Rated making capacity (436 V, cosØ = 0.35) A	320	630	1000	1250
Rated breaking capacity (436 V, cosØ = 0.35) A	256	504	800	1000
Capacitor duty - 415 V 50 - 60 Hz kVAr	14	29	45	57
Mechanical life (Operating cycles)	15000	15000	15000	15000
Terminal capacity (main) mm²	35	35	95	95
Terminal capacity (neutral) mm²	35	35	50	50
Terminal screw mm	M 6 x 12	M 6 x 12	M 8 x 20	M 8 x 30
Short circuit withstand current (without fuses) for 1 sec kA	1.5	1.5	4	4
DC Rating at 220 V DC				
No. of poles in series, utilization category at rated current	3, DC-23 A	3, DC-23 A	2, DC-23 A	2, DC-23 A

Ordering Information

Ordering Suffix OOOO for all * Example: FN 32 Interior with handle * Ordering Information - **SK95541OOOO**

Description	FN 32	FN 63	FN 100	FN 125
Interior with handle TPN	SK95541	SK95540	SK95571	SK95405

FN 200	FN 250	FN 315	FN 400	FN 630	FN 800	FN 1000	FN 1000H
3+Neutral	3+Neutral	3+Neutral	3+Neutral	3+Neutral	3+Neutral	3+Neutral	3+Neutral
Isolable	Isolable	Isolable	Isolable	Isolable	Isolable	Isolable	Isolable
-20 to 50	-20 to 50	-20 to 50	-20 to 50	-20 to 50	-20 to 50	-20 to 50	-20 to 50
415	415	415	415	415	415	415	415
690	690	690	690	690	690	690	690
8	8	8	8	8	8	8	8
50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60
200	250	315	400	630	800	1000	1000
200	250	315	400	630	800	1000	1000
200	250	315	400	630	800	1000	1000
200	250	315	400	630	800	1000	1000
200	250	315	400	630	800	1000	1000
2000	2500	3150	4000	6300	8000	10000	10000
1600	2000	2520	3200	5040	6400	8000	8000
92	115	145	175	270	270	270	
10000	10000	10000	10000	10000	10000	6000	6000
240	400	400	2 x 400	2 x 625	2 x 625	2 x 625	2 x 625
120	120	120	240	400	400	400	400
M 10 x 30	M 10 x 30	M 10 x 30	M 12 x 40	M 16 x 50	M 16 x 50	M 16 x 50	M 16 x 50
6	10	14	14	20	20	25	50
2, DC-23 A	2, DC-23 A	2, DC-22 A	2, DC-22 A	2, DC-22 A	2, DC-22 A	2, DC-22 B	

FN 200	FN 250	FN 315	FN 400	FN 630	FN 800	FN 1000	FN 1000H
SK95607	SK95608	SK95609	SK95610	SK95611	SK95551	SK95710	SK95992

Spares & Accessories

Wide range of spares & accessories are available for Switch-Disconnecter-Fuse units type FN.

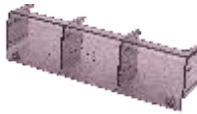
Accessories

Switched Neutral:



In FN 32 / 63 Switched-Neutral pole is an integral part of the Switch-Disconnecter-Fuse. For higher ratings, a double break, site-fitted switched neutral pole can be provided. This is operated by the main mechanism.

Terminal Shroud:



The terminals can be shrouded for protection against phase-short circuit through an external conducting path and against accidental human contact with live terminals.

Mechanical Interlock Kit:



Two Switch-Disconnecter-Fuse units can be interlocked by mechanical interlock kit. After interlocking, the following three positions are possible:

- SDFU 1 in ON position SDFU 2 in OFF position
- SDFU 2 in ON position SDFU 1 in OFF position
- Both SDFUs in OFF position hence two mechanically interlocked SDFUs can be used as a changeover switch



Castell Interlock:

Switch-Disconnecter-Fuse units can be locked on OFF position with help of castell interlock. Castell interlock can also be used to interlock two SDF units. (Different variety of locks are available).



Shaft Extension Kit:

Shaft length can be increased with shaft extension kit.



Fuse Puller:

A fuse puller is provided to facilitate easy & safe removal of fuses.

Handle Coupling (type A & B):

Irrespective of the switch orientation (vertical or horizontal), operation in any of the four quadrants is possible by selecting right handle coupling (Refer table on next page).



Auxiliary Contacts:

1 NO + 1 NC auxiliary contact is available as an accessory. This can be suitably wired in the control circuit.

- Rated operational current I_e (AC - 15) - 4 A
- Rated operational voltage U_e - 415 V

Spares

Moving Contacts:



Moving contacts are available for ranges FN 100 to FN 800. One set of moving contact spare contains, spring, guide & moving contact.



Front Housing assembly:

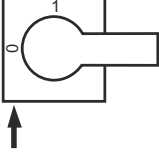
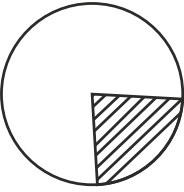
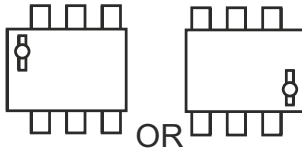
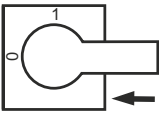
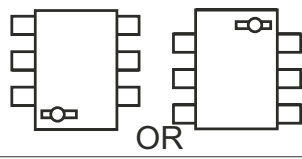
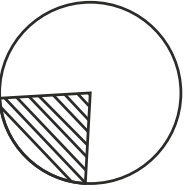
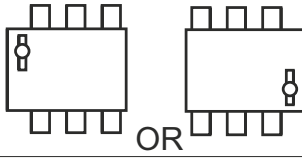
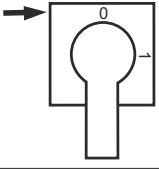
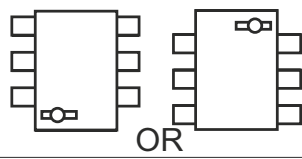
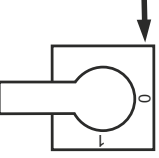
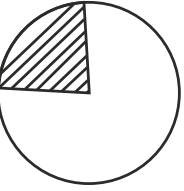
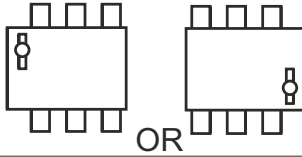
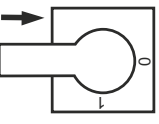
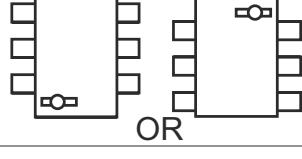
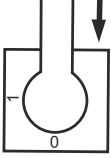
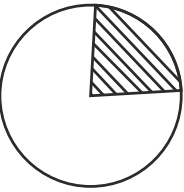
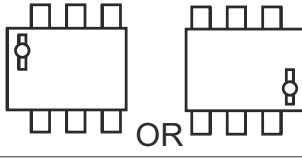
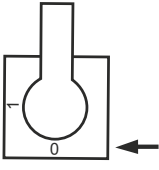
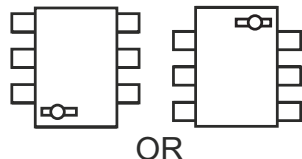
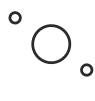
Complete front housing assembly is available from FN 100 to FN 800.

Spares & Accessories for FN Range - Ordering Information

	Versions	FN 32 / 63	FN 100	FN 125/160	FN 200	FN 250	FN 315	FN 400	FN 630	FN 800	FN 1000/1000H
Spares	Moving Contact	Not Available	SK91373		SK91374	SK91375	SK91376	SK91377	SK91378	SK91379	Not Available
	Front Housing Assembly	Not Available	ST31677	ST31678	ST31679	ST31729	ST31681	ST31682	ST31683	ST31730	Not Available
Accessories	Terminal Shroud Kit	SK91190	SK91137		SK91335		SK91346		SK91347		
	Switched Neutral Kit	Built-in	SK95233		SK95516		SK95517		SK95546		
	Aux. Contact (1 NO + 1 NC)	SK91302	SK91328		SK91329		SK91330				
	Handle Coupling (Type - A)	SK91257	SK91258				SK91259				
	Handle Coupling (Type - B)	SK91277	SK91278				SK91279				
	Handle Coupling (Type - CE)	SK91337	Not Available								
	Fuse Puller	SK91185	SF90126								
	Shaft Extension Kit	Not Available	SK95600				SK91331				
	Mechanical Interlock Kit	Not Available	SK95232				SK95545				
	Castell Lock (Type A-Type D)	Not Available	SK00333 - SK00336				SK00345 - SK00348				

Selection of Handle

Seen from front of the door

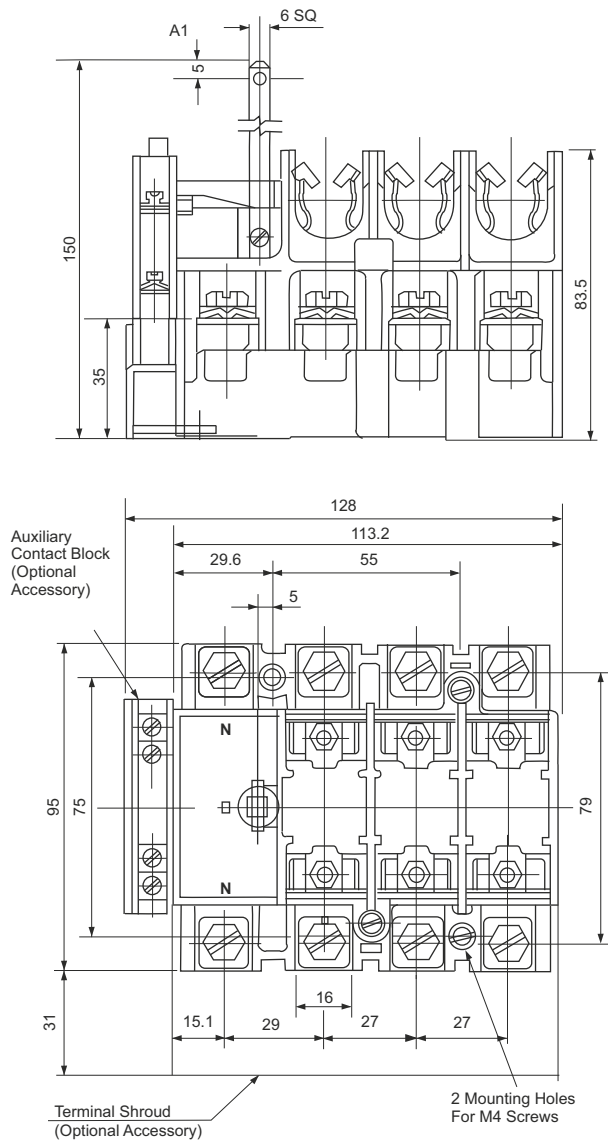
Sr. No.	Handle (off) Position	Operating Quadrant (hand)	Switch Orientation	Door Cut-out	Handle Coupling Type
1					A
2					B
3					B
4					A
5					A
6					B
7					B
8					A

Note : Arrow (↔) indicates position of Interlock Defeat Key
 Type A : supplied as standard with all S-D-Fs
 Type B : supplied on request

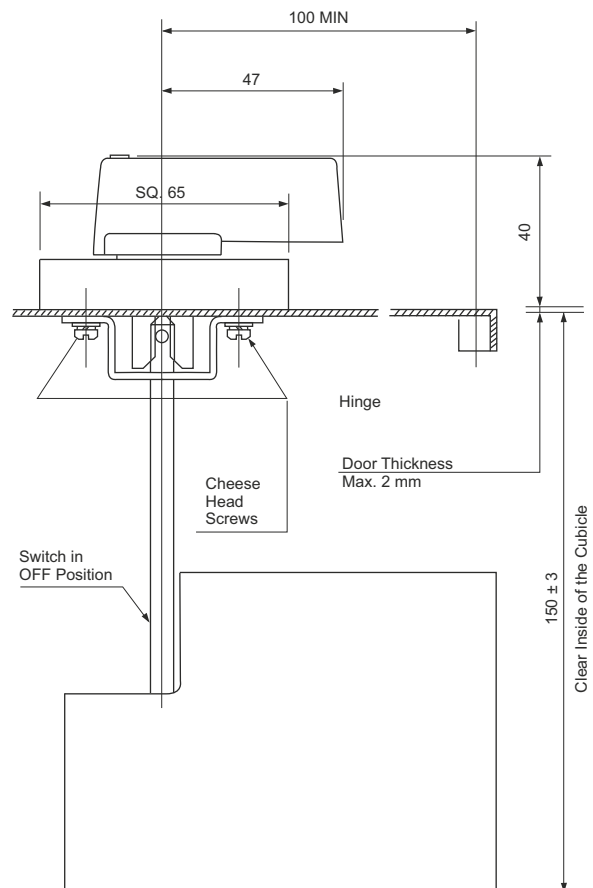
Overall Dimensions

Switch-Disconnecter-Fuse (suitable for DIN type fuses)

SDF - FN 32 / 63

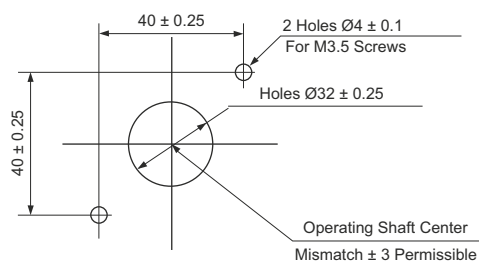


Assembly of Handle Coupling on Door - FN 32 / 63

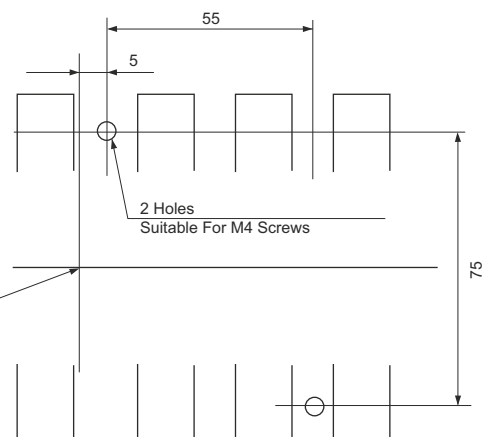


Drilling details FN 32 / 63

Drilling details on door for mounting handle coupling seen from front of the door



Drilling details on base plate for mounting switch seen from front of the door

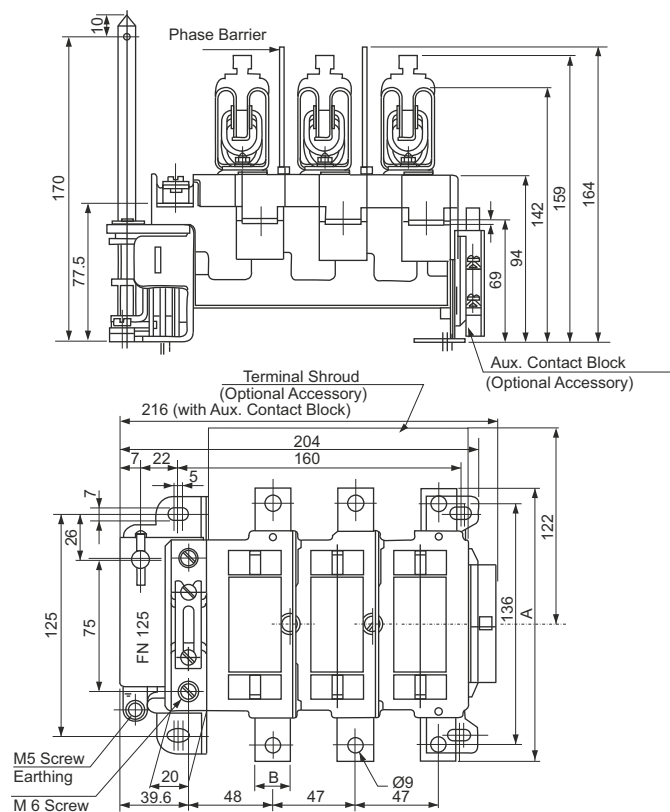


Note : All dimensions are in mm.

Switch-Disconnecter-Fuse (suitable for DIN type fuses)

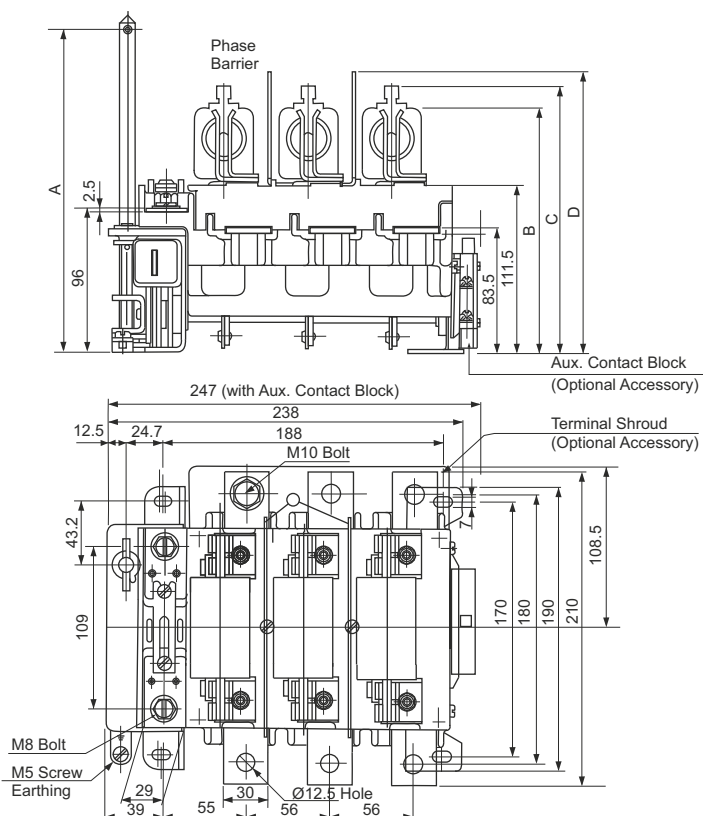
FN 100 / 125 / 160

Type	A	B
FN 100 / 125	154	20
FN 160	164	25



FN 200 / 250

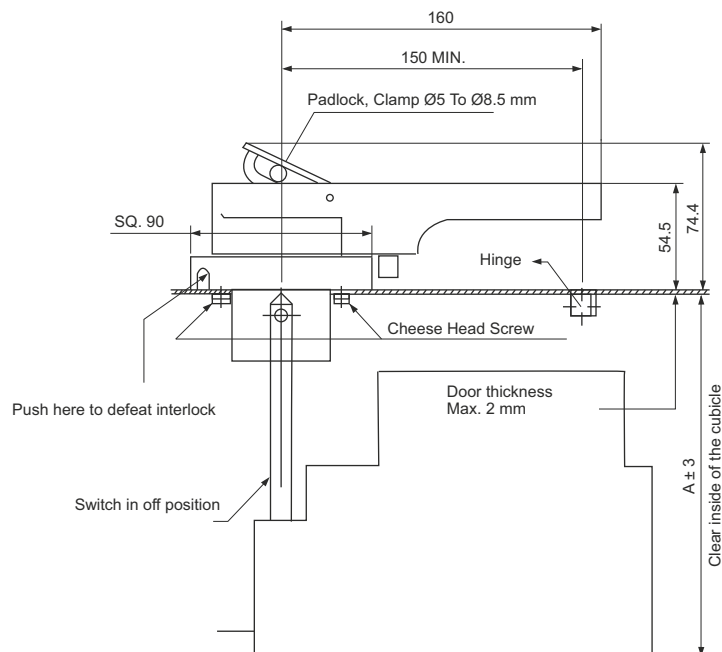
Type	A	B	C	D
FN 200	190	162.5	178	187.5
FN 250	206	108.5	194.5	204



Note : All dimensions are in mm.

Overall Dimensions

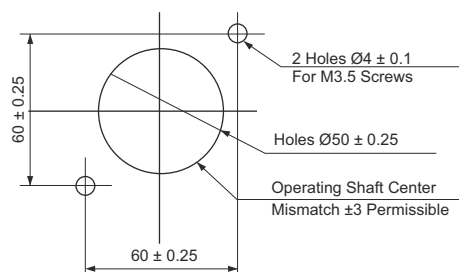
Assembly of Handle Coupling on Door FN 100 / 125 / 160 / 200 / 250



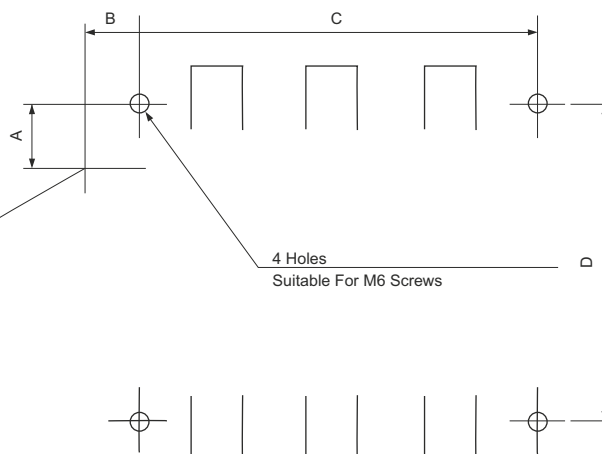
Dimension	FN 100 / 125 / 160	FN 200	FN 250
A	180	200	216

Drilling details FN 100 / 125 / 160 / 200 / 250

Drilling details on door
for mounting handle coupling
seen from front of the door



Drilling details on base plate
for mounting switch
seen from front of the door

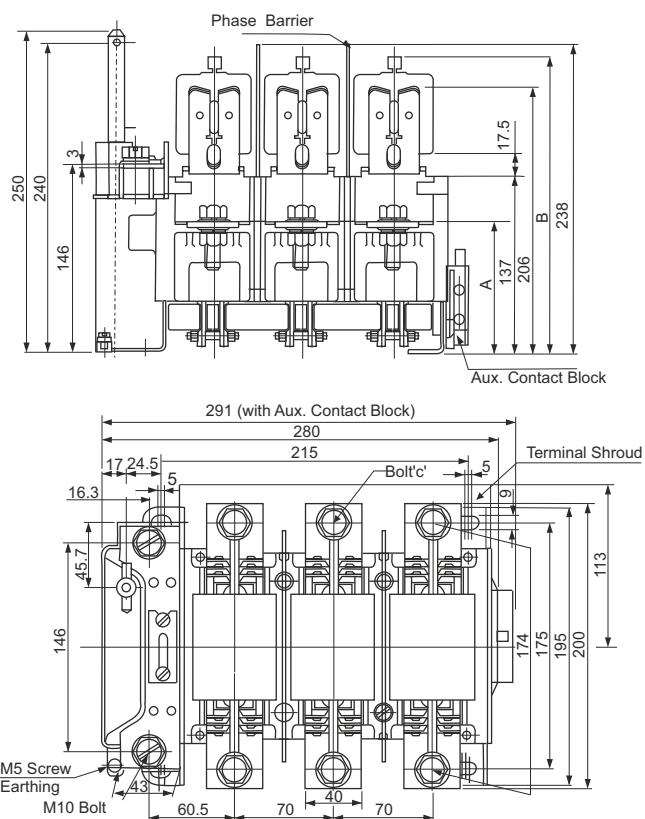


Type	A	B	C	D
FN 100 / 125 / 160	26	22	160	125
FN 200	43.2	24.7	188	170
FN 250	43.2	24.7	188	170

Note : All dimensions are in mm.

FN 315 / 400

Type	A	B	C
FN 315	103	220	M10
FN 400	102	228	M12

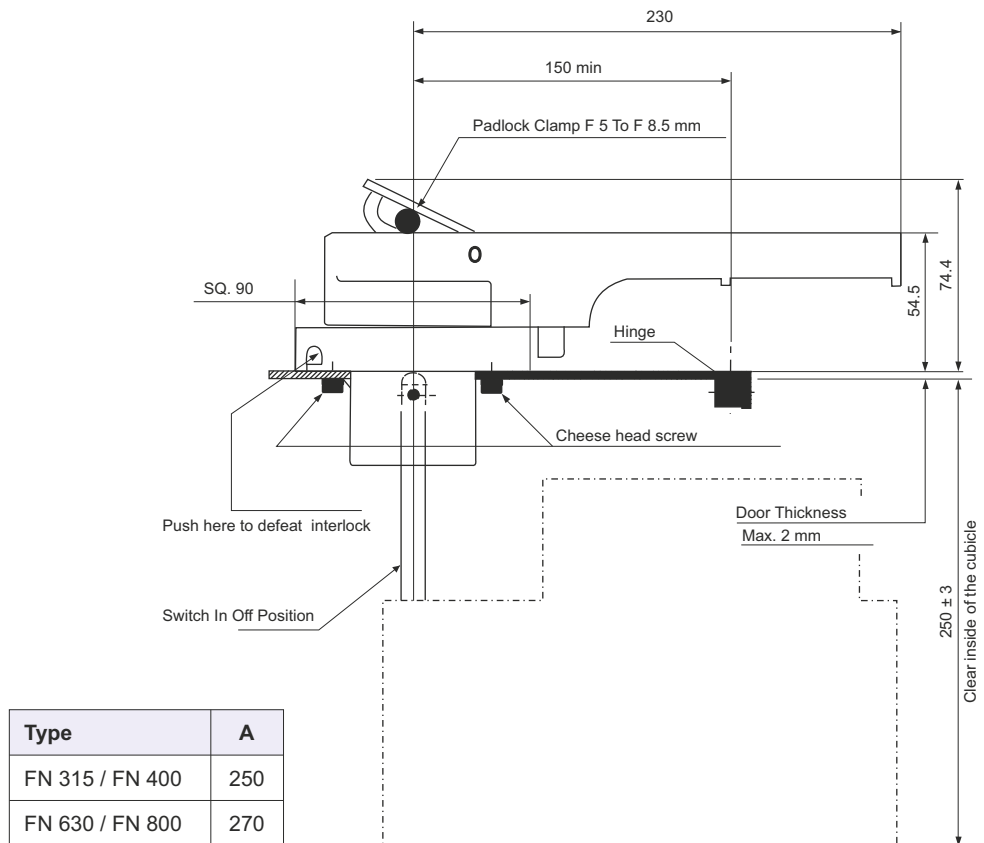


Type	A
FN 630	6
FN 800	8

12

Overall Dimensions

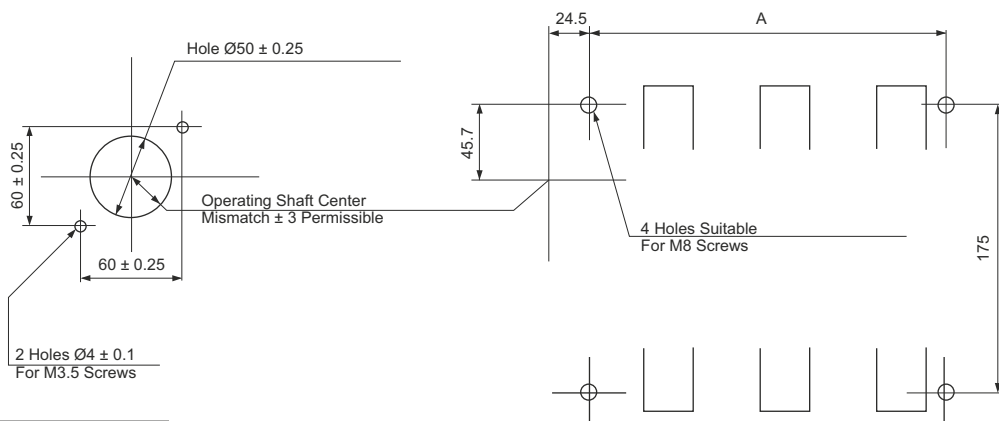
Assembly of Handle Coupling on Door FN 315 / 400 / 630 / 800



Drilling details FN 315 / 400 / 630 / 800

Drilling details on door
for mounting handle coupling
seen from front of the door

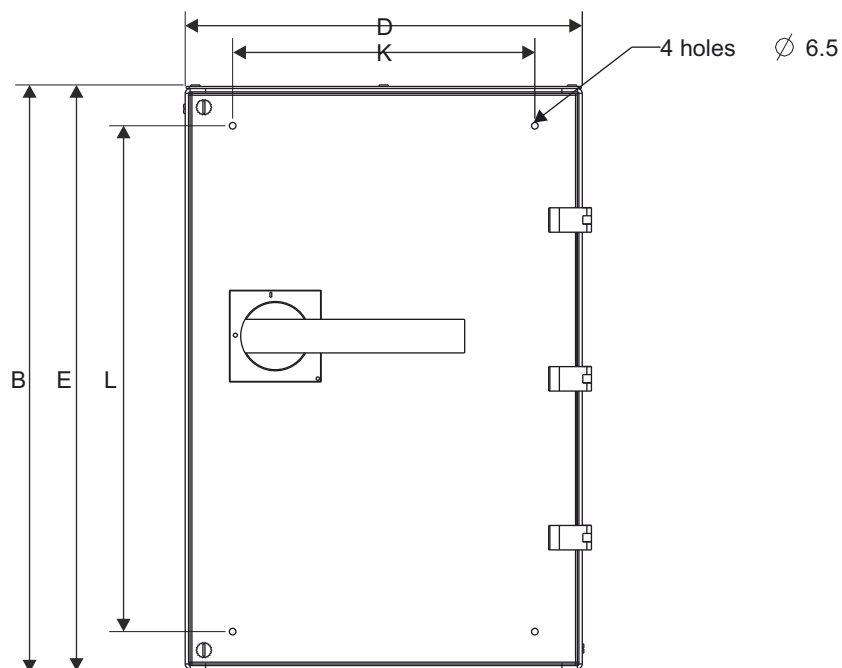
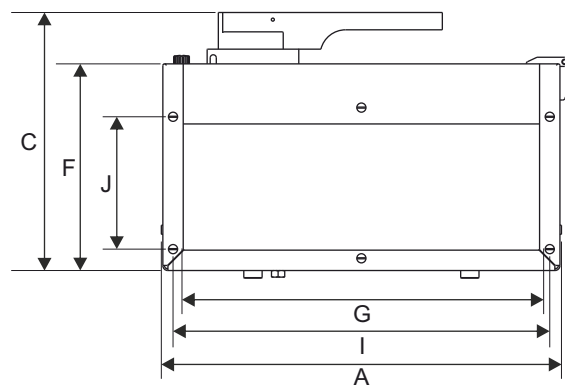
Drilling details on base plate
for mounting switch
seen from front of the door



Type	A
FN 315 / FN 400	215
FN 630 / FN 800	271

Note : All dimensions are in mm.

FN in Spacious Sheet Steel Enclosure



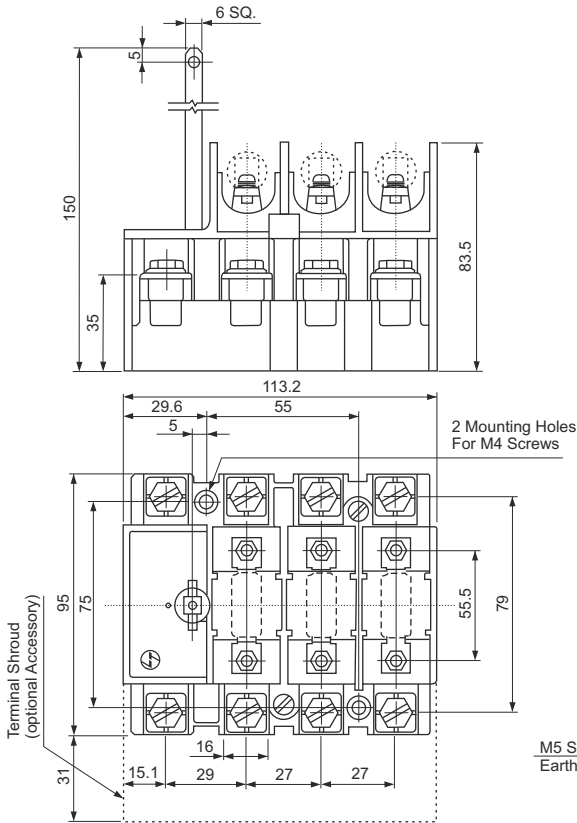
Type (FN)	Extreme overall dimension			Basic enclosure dimension			Cutout for Cables		GI and Plate mounting dimension		Enclosure mounting dimension	
	A	B	C	D	E	F	G	H	I	J	K	L
32/63	277	274	196	262	316	15	222	108	242	113	160	230
100/125/160	330	327	245	315	439	183	275	108	295	113	213	350
200/250	405	402	265	315	576	203	350	130	370	130	213	350
315/400	480	477	315	465	739	253	425	171	445	180	346	600
630/800	480	477	337	465	739	273	425	171	445	180	346	600

Note : All dimensions are in mm.

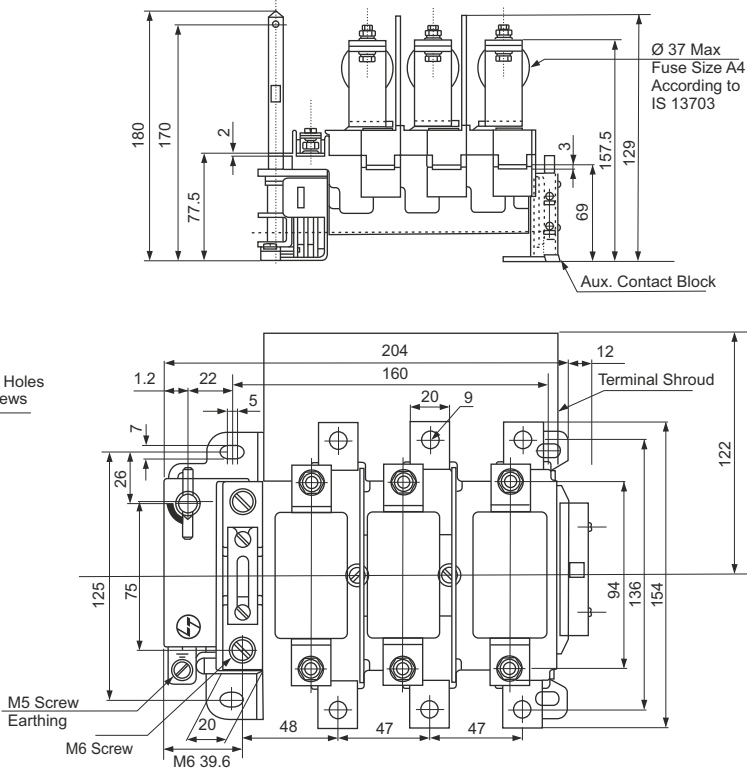
Overall Dimensions

Switch-Disconnecter-Fuse (suitable for BS type fuses)

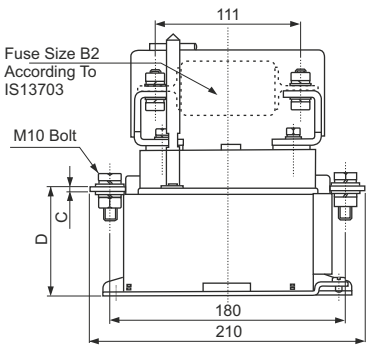
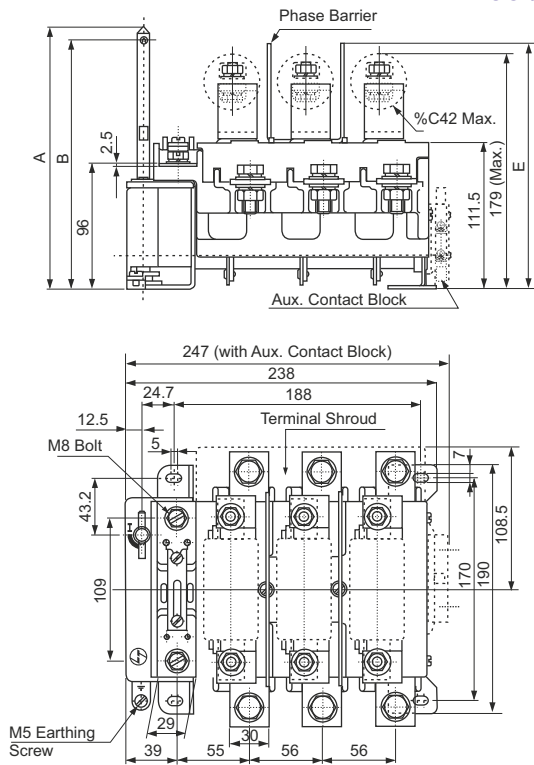
FN 32 / 63



FN 100 / 125



FN 200 / 250



DIM	A	B	C	D	E	Fuse
FN 200	200	190	4	83.5	187.5	200 A
FN 250	216	206	5	84.5	204	250 A

Note : All dimensions are in mm.

FN 315 / 400



HRC Fuses - Cylindrical

Fuse Links Type HF

(Fuse links with cylindrical contact caps)

- Conforms to IEC60269 / IS13703
- Low watt loss - Saves power
- Low let through energy
- High breaking capacity - 80 kA
- Rated voltage - 415 V
- Immediate fault indication through red pop up indicator
- Lower power loss in our fuses result in cooler running of associated products



Ordering Details

Size	Fuse Rating (A)	Cat. Nos.	Rated watt loss
14 x 51	2	SF90144	0.6
	4	SF90145	0.6
	6	SF90146	1.1
	8	SF90147	1.2
	10	SF90148	1.0
	16	SF90150	2.4
	20	SF90151	2.4
	25	SF90152	3.2
	32	SF90142	5.0
	40	SF90143	5.0
	50	SF90158	5.0
	63	SF90159	7.4

Fuse-pulling handle should be used for safe and easy removal of fuse links

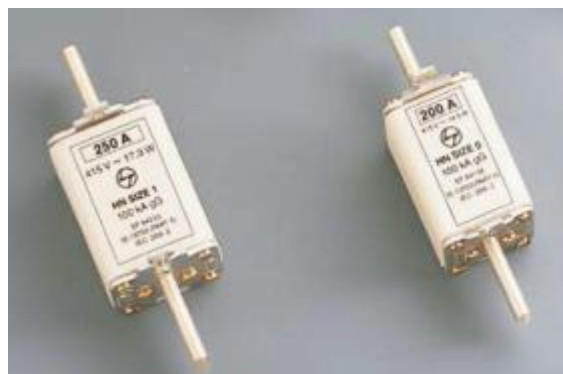
Suitable fuse - pulling handle for type HF : SK91185

HRC Fuses - Blade / Knife type

Fuse Links Type HN

(Fuse links with blade contacts)

- Conforms to IEC60269 / IS13703
- Low watt loss - Saves power
- Cooler running of associated products
- Low let through energy
- High breaking capacity - 100 kA
- Immediate fault indication
- Rated voltage - 415 V



Size of the fuse link	Rating (A)	Cat. Nos.	Rated watt loss	Watt loss limits as per IS 13703
Size 000	63	SF94940	5.3	100 Amp, Fuse-7.5 W
	80	SF94941	6.2	
	100	SF94942	7	
	New 125	SF94946	9.5	
Size 00	63	SF94027	5.7	100 Amp, Fuse-7.5 W
	80	SF94028	6.9	
	100	SF94029	7.5	
	125	SF94030	9.8	
	160	SF94939	12	
Size 0	80	SF94128	8.3	160 Amp, Fuse-16 W
	100	SF94129	9.1	
	125	SF94130	11.3	
	160	SF94131	12.7	
	200	SF94132	14.5	
Size 1	125	SF94230	10.3	250 Amp, Fuse-23 W
	160	SF94231	12.3	
	200	SF94232	14.3	
	250	SF94233	17.3	
	315	SF94234	25.5	
Size 2	200	SF94332	14.1	400 Amp, Fuse-34 W
	250	SF94333	16.9	
	315	SF94334	20.2	
	400	SF94335	24.9	
Size 3	315	SF94434	20.5	630 Amp, Fuse-48 W
	400	SF94435	26.7	
	500	SF94436	36.1	
	630	SF94437	42.2	
	800	SF94938	48	

Fuse-pulling handle should be used for safe and easy removal of fuse links
 Suitable fuse - pulling handle for type HN : SF90126

HRC Fuses - Bolted

Fuse Links Type HG and HQ

(Fuse links for bolted connections)

- Conforms to IEC60269 / IS13703
- Low watt loss
- Low let through energy
- High breaking capacity - 80kA
- Rated voltage - 415V

Type HQ

Size of the fuse	Rating (A)	Cat. Nos.	Rated Watt Loss
A1	2	ST30736	0.3
	4	ST30737	0.5
	6	ST30738	1.2
	10	ST30739	1.4
	16	ST30740	1.8
	20	ST30741	2.2
	25	ST30742	2.9
	32	ST30743	3.0
A1L	20	ST34527	2.4
	25	ST34528	3.1
	32	ST34529	3.4
	50	ST35827	4.0
	63	ST35828	4.7
A2	4	ST30747	0.8
	6	ST30748	1.4
	10	ST30749	1.5
	16	ST30750	2.0
	20	ST30751	2.8
	25	ST30752	3.8
	32	ST30753	4.4
	35	ST30759	4.5
A3	50	ST30760	6.2
	63	ST30761	6.8
	80	ST30767	9.1
A4	100	ST30768	9.5
	125	ST30769	14
	160	ST35829	-
	80	ST30774	9.2
B1	100	ST30775	10.5
	125	ST30776	16.0
	125	ST30777	15.0
B2	160	ST30778	19.5
	200	ST30779	20.5
	250	ST30781	28
B3	315	ST30782	32
	355	ST30783	34
B4	400	ST30784	38
	400	ST30785	38
C2	500	ST30786	50
	630	ST30787	55
	630	ST30788	58



Type HG

Size	Rating (A)	Cat. Nos.	Rated Watt Loss
F1	2	ST30725	0.3
F1	4	ST30726	0.5
F1	6	ST30727	1.2
F1	10	ST30728	1.4
F1	16	ST30729	1.8
F1	20	ST30730	2.2
F1	25	ST30731	2.9
F1	32	ST30732	3.0

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Product improvement is a continuous process. For the latest information and special applications, please contact any of our offices listed here.



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