



**Switch Disconnector/Switch Disconnector Fuse,  
HRC Fuse/Fuse Base**

**Power Switching**



Indo Asian has always stressed on providing innovative and high quality products to meet customer demand. With breakthrough products backed by motivation and insight, Indo Asian has risen to be a lead player in the field of Low Voltage Switchgear products.

Indo Asian range of Switch Disconnect Fuses (SDF), HRC Fuses and Fuse Bases not only meet, but surpass all international and national standards.

SDF offering of Indo Asian contains a number of unique features which provide many advantages to the customers, most notably the QUAD break principle which enables a drastic reduction in arcing while opening & closing of the contact.

HRC fuses present a number of features such as low watt loss enabling longer life and very high breaking capacity. To sum it up, Indo Asian SDFs and HRC Fuses are an epitome of reliable, safe, simple and versatile solution.





## Construction and Features

### ■ Innovative Design :

- The design of SDF units type IN1 is based on the innovative 'QUAD BREAK' principle. This design enables a drastic reduction in the intensity of arc, which is produced at the time of breaking. During breaking the current path is broken at four places in series, thus the arc is reduced. This leads to less strain on the contacts and the life of the switch is increased.
- The moving contacts are designed to make two parallel current paths, which produce high electro-magnetic attraction forces during high faults and increase the contact pressure, this eliminates chance of arcing at the contacts and allows the fuse to safely clear the fault. The self-cleaning contacts ensure wiping of deposits during each operation and increase the life of the contacts. Telescopic shaft feature enables the operating shaft extension upto 25mm.

### ■ Complete Safety :

- The fuses in SDF units' type IN1 are stationary and are isolated at both the incoming and outgoing ends, this offers complete safety for fuse replacement in OFF condition.
- The switch mechanism is quick-make quick-break i.e. independent of operating speed. Positive ON/OFF indication is provided at the switch handle and mechanism assembly; however, clear physical contact position can be seen through inspection windows on the housing of the switch.
- The complete range from 32A to 800A is offered in TPN and 4-pole (TPSN) versions. In case of switched neutral (TPSN) version, the neutral is advance (i.e. makes before and breaks later than the main poles) and is housed in the same housing without any Add-on attachment.
- Phase barriers are provided as a standard feature to prevent any accidental fault between the fuses.

### Technical Specifications :

- Conforming to IS/IEC 60947 - 3
- Rated insulation voltage: 1000V AC/1500V DC
- High Breaking capacity: AC23A
- Contact position clearly visible through inspection windows
- ON/OFF position clearly indicated on handle and on switch mechanism
- Independent manual operation
- Front operated rotary handle with door interlock
- Padlock Feature
- Telescopic Shaft
- Storage Ambient Temperature : -25°C to 55°C
- Working Ambient Temperature : -20°C to 45°C
- Relative Humidity : Maximum 95%
- Rated frequency : 50/60Hz
- Auxiliary Contacts :
  - 1NO + 1NC
  - 2NO + 2NC

Technical Data

No. of poles		TPN/TPSN		TPN/TPSN		TPN/TPSN		TPN/TPSN		TPN/TPSN		
Rated thermal current (I <sub>th</sub> )	A	32	63	125	160	200	250	315	400	630	800	
Rated operational voltage (U <sub>e</sub> )	V	415	415	415	415	415	415	415	415	415	415	
Rated insulation voltage (U <sub>i</sub> )	V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage (U <sub>imp</sub> )	kV	8	8	12	12	12	12	12	12	12	12	
Rated frequency	Hz	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	
Conventional enclosed thermal current at 45°C (I <sub>the</sub> )	A	32	63	125	160	200	250	315	400	630	800	
Rated operational current (I <sub>e</sub> ) (A)	AC-21A utilization category at 415V	A	32	63	125	160	200	250	315	400	630	800
	AC-22A utilization category at 415V	A	32	63	125	160	200	250	315	400	630	800
	AC-23A utilization category at 415V	A	32	63	125	160	200	250	315	400	630	800
Rated making capacity (415V, Cosφ=0.35) (0.45*)	A	320*	630*	1250	1600	2000	2500	3150	4000	6300	8000	
Rated breaking capacity (415V, Cosφ=0.35) (0.45*)	A	256*	504*	1000	1280	1600	2000	2520	3200	5040	6400	
Rated fused short circuit current	kA	80	80	80	80	80	80	80	80	80	80	
Capacitor duty at 415V, 50-60Hz	kVAR	15	30	50	70	90	110	140	180	300	380	
Mechanical life (Operating cycles)		10000	10000	8000	8000	7000	7000	7000	7000	4000	4000	
Electrical life (Operating cycles)		1500	1500	1000	1000	1000	1000	1000	1000	1000	1000	
Terminal size mm	Phase	12x2	12x2	16x4	16x4	25x4	25x4	30x5	30x5	40x7	40x7	
	Neutral	12x2	12x2	16x3	16x3	25x3	25x3	30x3	30x3	50x4	50x4	
Terminal capacity	mm <sup>2</sup>	25	25	70	95	185	185	2x300	2x300	2x400	2x400	
Details of IA Fuses Suitable for Switch Disconnecter Fuse Unit Type designation of fuse		SIZE 000	SIZE 000	SIZE 00	SIZE 00	SIZE 1	SIZE 1	SIZE 2	SIZE 2	SIZE 3	SIZE 3	
Size of fuse as per IS-13703 (Part I & II) / IEC 269		A2 Bolted	A2/A3 Bolted	SIZE 00	SIZE 00	SIZE 1	SIZE 1	SIZE 2	SIZE 2	SIZE 3	Bolted C3	
Ratings of Indo Asian make fuses available	A	6-32	6-63	6-125	6-160	32-200	32-250	250-400	250-400	315-630	800	

ORDER REFERENCE	IT1F		IT2F		IT3F		IT4F		IT5F		
	32A	63A	125A	160A	200A	250A	315A	400A	630A	800A	
Interior TPN	IN10A032	IN10A063	IN10A125	IN10A160	IN10A200	IN10A250	IN10A315	IN10A400	IN10A630	IN10A800	
Interior 4 Pole (TPSN)	IN10B032	IN10B063	IN10B125	IN10B160	IN10B200	IN10B250	IN10B315	IN10B400	IN10B630	IN10B800	
In sheet steel enclosure TPN	IN1SA032	IN1SA063	IN1SA125	IN1SA160	IN1SA200	IN1SA250	IN1SA315	IN1SA400	IN1SA630		
Weight (Interior)	kg	1.1	1.1	2	2	5.3	5.3	7.4	7.4	14.5	14



### Construction and Features

- Compact in size.
- The quick make - quick break switch mechanism independent of the operating speed.
- The self-wiping contact system allows cleaning of contacts during each operation, calling for lesser maintenance and higher life.
- The terminals are staggered allowing easy termination of aluminium conductors with adequate clearances.
- The neutral is 'early make & late break'
- Telescopic shaft feature enables the operating shaft extension upto 25mm.

### Technical Specifications

- Conforming to IS/IEC 60947 - 3
- Rated insulation voltage : 1000V AC/1500V DC
- High Breaking capacity: AC23A
- High Electrical & Mechanical endurance
- Double break self-wiping contacts
- Contact position clearly visible through inspection windows
- Staggered terminals facilitate easy termination and increased clearances
- 'Early Make & Late Break' neutral closes earlier and opens later than the main poles
- Front operated rotary handle with door interlock
- Padlock Feature
- Telescopic Shaft
- Storage Ambient Temperature : -25°C to 55°C
- Working Ambient Temperature : -20°C to 45°C
- Relative Humidity : Maximum 95%
- Rated frequency : 50/60Hz
- Auxiliary Contacts:
  - 1NO + 1NC
  - 2NO + 2NC



Technical Data

Rating		63A	125A	200A	250A	315A	400A	630A	800A
Rated insulation voltage	(Ui) VAC	1000	1000	1000	1000	1000	1000	1000	1000
	VDC	1500	1500	1500	1500	1500	1500	1500	1500
Rated impulse withstand voltage	(Uimp) kV	8	8	12	12	12	12	12	12
Rated thermal current	(Ith) A	63	125	200	250	315	400	630	800
Rated operational current (A) (Ie) AC-23A	240V	63	125	200	250	315	400	630	800
	415V	63	125	200	250	315	400	630	800
	500V	45	100	160	200	250	315	500	630
	690V	35	80	125	160	200	250	400	500
Short withstand current 1 sec.	kA	5	5	8	8	13	13	15	35
Making capacity in short circuit	kA	7.5	7.5	13.5	13.5	26	26	30	73.5
Back-up fuse	A	63	125	200	250	315	400	630	800
Rated making capacity 415V AC cos $\theta$ = 0.35(0.45*)	A	630*	1250	2000	2500	3150	4000	6300	8000
Rated breaking capacity 415V AC cos $\theta$ = 0.35(0.45*)	A	504*	1000	1600	2000	2520	3200	5040	6400
Capacitor duty 415V AC	KVAR	30	50	90	110	140	180	300	370
Mechanical endurance (Operating Cycles)		12000	10000	10000	10000	8000	8000	8000	7000
Electrical endurance (Operating Cycles)		3000	2000	2000	2000	1500	1500	1500	1000
Terminal size	mm	15x3	15x3	20x4	20x4	28x4	28x4	40x6	50x6
Terminal Capacity	mm <sup>2</sup>	70	70	185	185	300	300	400	--
Ordering Code		IN1SD063	IN1SD125	IN1SD200	IN1SD250	IN1SD315	IN1SD400	IN1SD630	IN1SD800





### Construction and Feature

- Conforming to IEC-60269
- High breaking capacity 80kA and 120kA at 500V AC
- Available with CE marking
- Low Watt Loss, Ensures cool running & longer life
- No de-rating required for connected equipment
- Low let through energy, low cut off characteristics, reduced electro magnetic stress
- Fault indication is immediate. The red pop up indicator comes out instantly on fusing

### Available Range

- Fuse Link for bolted connection (BS Fuse)
- Fuse Link having cylindrical contact cap
- Fuse Link with blade contact (Din Fuse / Knife Type)
- Din Fuse Base
- J type Fuse (Wedge Type)
- BS fuse fittings

### Technical Data

#### BS Fuse

- Conforming to IEC 60269/BS 88
- Rated Current : 2A to 630A
- Rated Voltage : 500V
- Breaking Capacity : 80kA to 120kA
- Rated Frequency : 50/60Hz

#### DIN Fuse (Knife Type)

- Conforming to IEC 60269/DIN 43620
- Range : Size (000,00, 01, 02, 03)
- Rated Current : 6A to 630A
- Rated Voltage : 500V
- Breaking Capacity : 80kA to 120kA
- Rated Frequency: 50/60Hz

#### DIN Fuse Base

- Conforming to IEC 60269/DIN 43620
- Range : Size ( 00, 1, 2, 3)
- Rated Current : 6A to 630A
- Rated Voltage : 500V
- Breaking Capacity : 80kA to 120kA (with fuse)
- Rated Frequency: 50/60Hz

#### J Type Fuse

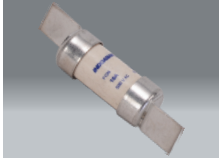




- Conforming to IEC 60269/BS 88
- Rated Current : 20A to 400A
- Rated Voltage : 415V
- Breaking Capacity : 80kA
- Rated Frequency: 50/60Hz



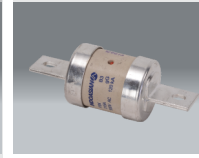
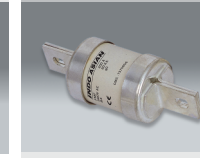
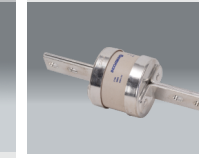
#### BS Fuse Fittings

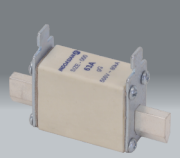
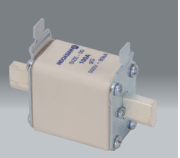
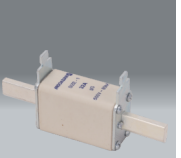
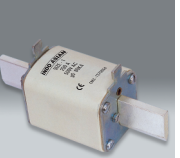
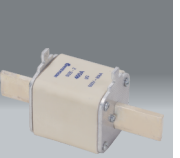

- Conforming to IEC 60269/BS 88
- Rated Current : 20A / 32A / 63A / 100A
- Rated Voltage : 415V








	FGN (F1)		FSA (A2)		FSS (A3)		FSDCP (A4)		FSFP	
<b>REFERENCE</b>										
Voltage Rating	500V AC		500V AC		500V AC		500V AC		500V AC	
Breaking Capacity	80kA		80kA		80kA		80kA		80kA	
Current Ratings /	2A	0.6W	4A	1.1W	35A	4.2W	50A	6.5W	125A	12.8W
Watt Loss	4A	0.8W	6A	1.8W	40A	4.7W	63A	6.7W	160A	16.8W
	6A	0.9W	10A	1.9W	50A	4.8W	80A	8.8W	200A	20.2W
	8A	1.1W	16A	2.2W	63A	6.2W	100A	8.8W		
	10A	1.2W	20	2.6W			125A	11.8W		
	16A	1.7W	25A	2.7W			160A	13.2W		
	20A	1.6W	32A	3.9W						
	25A	2.5W								
	32A	2.96W								
Extended Motor range	FGN20M25	1.6W	32M35	3.8W	63M80	5.6W	100M125	7.0W		
	FGN20M32	1.4W					100M160	6.0W		
							100M200	5.0W		
<b>Dimensions (mm)</b>										
Overall Length	60mm		86mm		90mm		111mm		111mm	
Hole Fixing Centres	—		73mm		73mm		94mm		94mm	
Diameter	14.2mm		21.5mm		21.5mm		32mm		39.5mm	
Tag Type	OFFSET		OFFSET		OFFSET		OFFSET		OFFSET	
No. of Hole Fixing	—		2		2		2		2	
<b>Fuse Fittings</b>										
Front Connection	BFF20A		BFF32A		BFF63A		BFF100A			
Busbar Mounting	BFF20A		BFF32A		BFF63A		BFF100A			
<b>Dimensions (mm)</b>										
Length	81mm		100mm		106mm		132mm			
Width	26mm		32mm		36mm		50mm			
Height	44mm		65mm		72mm		92mm			
Comply with	BS 88/IEC 60269		BS 88/IEC 60269		BS 88/IEC 60269		BS 88/IEC 60269		BS 88/IEC 60269	

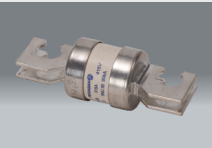

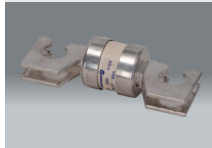
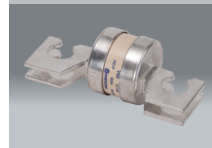
	FSDC (B1)	FSF (B2)	FSK (B3)	FMF (B4)	FTM (C2)	FTS
<b>REFERENCE</b>						
Voltage Rating	500V AC	500V AC	500V AC	500V AC	500V AC	500V AC
Breaking Capacity	120kA (80kA for 125A)	80kA	120kA	80kA	80kA	80kA
Current Ratings /	50A 6.1W	125A 13.0W	250A 23.2W	355A 33.4W	400A 32.8W	400A 29.7W
Watt Loss	63A 6.8W	160A 18.0W	300A 26.1W	400A 35.1W	500A 37.6W	450A 31.6W
	80A 8.3W	200A 20.3W	315A 27.3W		630A 49.0W	500A 34.7W
	100A 9.3W					630A 45.7W
	125A 12.4W					
Extended Motor Range						
<b>Dimensions (mm)</b>						
Overall Length	136mm	132mm	136mm	136mm	208mm	156mm
Hole Fixing Centres	111mm	111mm	111mm	111mm	133mm,184mm	133mm
Diameter	32mm	39.5mm	50.5mm	50.5mm	70.2mm	70mm
Tag Type	CENTRAL	CENTRAL	CENTRAL	CENTRAL	CENTRAL	CENTRAL
No. of Hole Fixing	2	2	2	2	4	2
Comply with	BS 88/IEC 60269	BS 88/IEC 60269	BS 88/IEC 60269	BS 88/IEC 60269	BS 88/IEC 60269	BS 88/IEC 60269

	SIZE 000		SIZE 00		SIZE 0		SIZE 1		SIZE 2		SIZE 3		
<b>REFERENCE</b>													
	Voltage Rating		500V AC		500V AC		500V AC		500V AC		500V AC		
Breaking Capacity		80kA		100kA		80kA		120kA		120kA		80kA	
Current Ratings /		6A	0.9W	4A	1.0W	63A	7W	32A	4.6W	100A	10.5W	315A	24.3W
Watt Loss		10A	1.2W	6A	1.0W	100A	10W	36A	5.3W	125A	12.6W	355A	30.0W
		16A	2.6W	10A	1.5W			50A	6.7W	200A	20.6W	400A	32.7W
		20A	2.7W	16A	2.5W			63A	6.5W	250A	21.0W	500A	33.8W
		25A	2.3W	20A	2.6W			80A	9.1W	315A	23.8W	630A	43.5W
		32A	3.1W	25A	2.3W			100A	9.8W	400A	28.3W		
		63A	5.7W	32A	3.3W			125A	12.7W				
				40A	4.0W			160A	16.5W				
				50A	4.5W			200A	19.8W				
				63A	5.8W			250A	21.3W				
				80A	6.5W								
				100A	7.4W								
				125A	10.6W								
				160A	10.7W								
Extended Motor Range													
<b>Dimensions (mm)</b>													
Overall Length		78.5		78.5		125		135		150		150	
Tag		BLADE		BLADE		BLADE		BLADE		BLADE		BLADE	
Width		20		30		28		48		58		68	
Tag Type		CENTRE		CENTRE		CENTRE		CENTRE		CENTRE		CENTRE	
No. of Hole Fixing													
<b>Fuse Fittings</b>													
Front Connection		SIZE-000		SIZE-00		SIZE-0		SIZE-1		SIZE-2		SIZE-3	
Busbar Mounting													
Comply With		DIN 43620/IEC 60269		DIN 43620/IEC 60269		DIN 43620/IEC 60269		DIN 43620/IEC 60269		DIN 43620/IEC 60269		DIN 43620/IEC 60269	

## Cylindrical Type

	FR-1 (14X51) IFRH	FR-2 (22X58)	FR-3 (30X57)	FR-4 (17X51)
<b>REFERENCE</b>				
Voltage Rating	415V AC	415V AC	415V AC	415V AC
Breaking Capacity	80kA	80kA	80kA	80kA
Current Ratings /	2A 1.1W	10A 1.9W	80A 5.4W	45A 7.2W
Watt Loss	4A 1.3W 6A 1.4W 10A 1.6W 16A 2.1W 20A 2.3W 25A 2.8W 32A 3.4W 40A 3.5W 45A 4.1W 50A 4.4W 60A 5.3W 63A 5.6W	20A 2.3W 25A 2.7W 32A 3.2W 40A 3.3W 50A 4.3W 45A 5.0W 60A 5.2W 63A 5.2W 80A 5.6W 100A 5.8W	100A 6.1W	63A 8.3W
<b>Dimensions (mm)</b>				
Length	51	57	57	51
Diameter	14.3	22	30	17
Comply with	BS 1361	BS 1361	BS 1361	BS 1361

## 'J' Type HRC Fuse Links

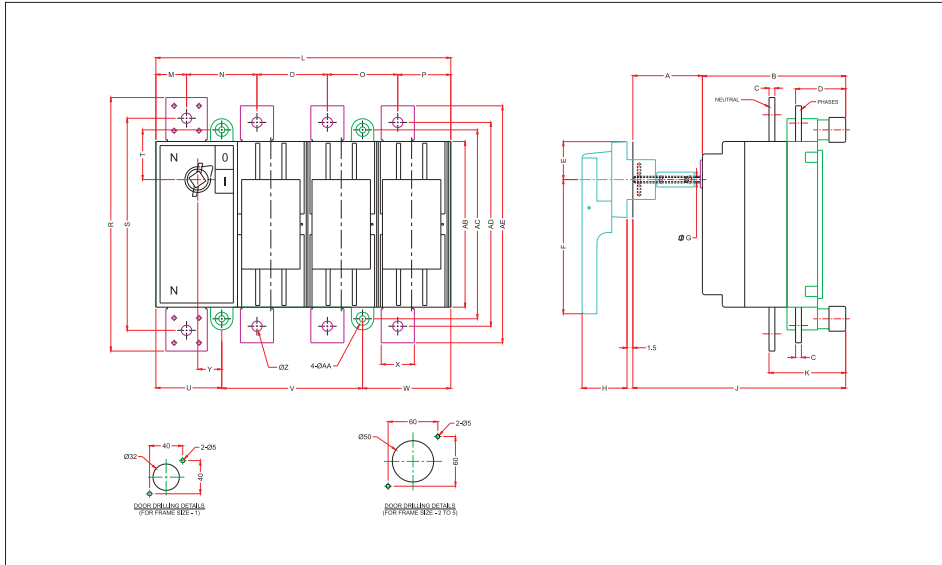
	SMJ 30	SPJ 30	SMJ 31	SPJ 31
<b>REFERENCE</b>				
Voltage Rating	415V AC	415V AC	415V AC	415V AC
Breaking Capacity	80kA	80kA	80kA	80kA
Current Ratings /	20A 2.5W	100A 8.5W	20A 2.4W	100A 8.1W
Watt Loss	32A 3.5W 40A 3.8W 50A 5.0W 63A 6.0W 80A 7.5W 100A 8.6W 125A 9.6W 160A 12.7W 200A 15.8W 250A 18.8W 315A 25.8W	125A 10.5W 160A 12.7W 200A 14.1W 250A 19.0W 315A 26.0W 355A 27.4W 400A 29.8W	32A 3.2W 40A 3.4W 50A 4.8W 63A 7.2W 80A 7.6W 100A 7.8W 125A 10.0W 160A 12.9W 200A 16.5W 250A 18.7W	125A 10.1W 160A 13.0W 200A 15.1W 250A 18.3W 315A 23.7W 355A 26.8W 400A 30.0W
<b>Dimensions (mm)</b>				
Length	111	111	131	131
Diameter	39	50	39	50
Fixing Centre	82	82	92	92
Comply with	BS 88	BS 88	BS 88	BS 88

# Dimensions

## Switch Disconnecter Fuse (TPN/TPSN)

(DIN Type)

### Open Execution



**IN10A-32A, 63A    IN10A-125A, 160A    IN10A-200A, 250A    IN10A-315A, 400A    IN10A-630A**

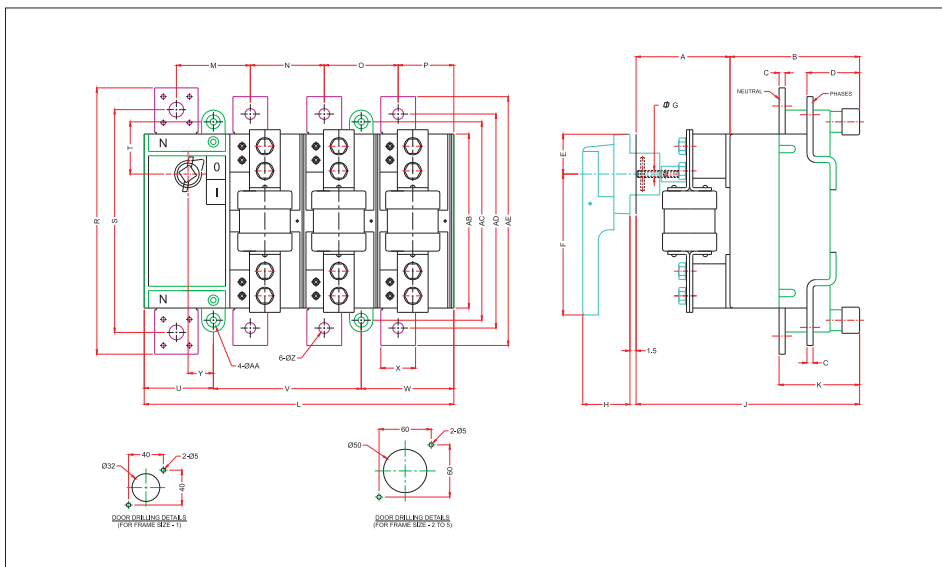
Size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	Terminal Size	
																														Phase	Neutral
IN10A-32,63A	92	96.5	2	31	33	64	8	39	188.5	31	142	19	33	33	24	105	95	23	35.5	66	40.5	12	14	Ø5.5	Ø9.5	77	88	95	105	12 x 2	12 x 2
IN10A-125,160A	90	101.5	4	36.5	46	163	8	39	191.5	36.5	168	22.5	37.5	39	30	145.5	130.5	37.5	40.5	78	49.5	16	14.5	Ø8.5	Ø9.5	106	118	131.5	147	16 x 4	16 x 3
IN10A-200,250A	90	121	4	41	46	163	10	55	211	56	235	29	56	56	38	196	171	47	53	114	68	25	21	Ø10.5	Ø12	140	157	168	207	25 x 4	25 x 3
IN10A-315,400A	90	150.5	5	52	46	163	12	55	240.5	68	280	31.5	66.5	68	46	230	205	51	64	136	80	30	24	Ø12.5	Ø14.5	160	180	217	268	30 x 5	30 x 3
IN10A-630	90	172	7	77	46	232	12	55	265	98	358	37	85	85	64	306	256	60	79.5	170	106.5	40	29	Ø12.5	Ø16	200	228	246	286	40 x 7	50 x 4

All dimensions are in mm.

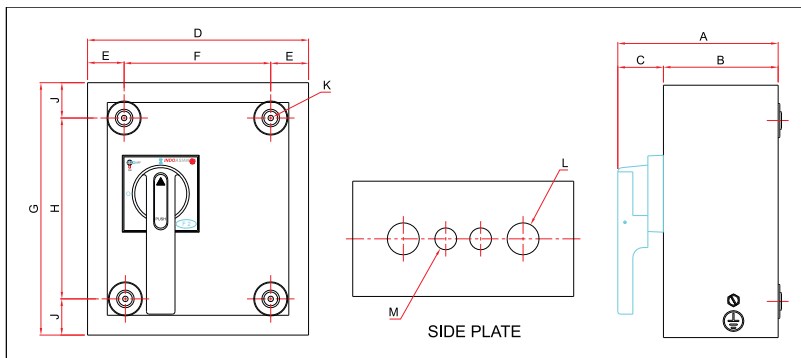
## Switch Disconnecter Fuse (TPN/TPSN)

(Bolted Type)

### Open Execution



Sheet Enclosure Execution



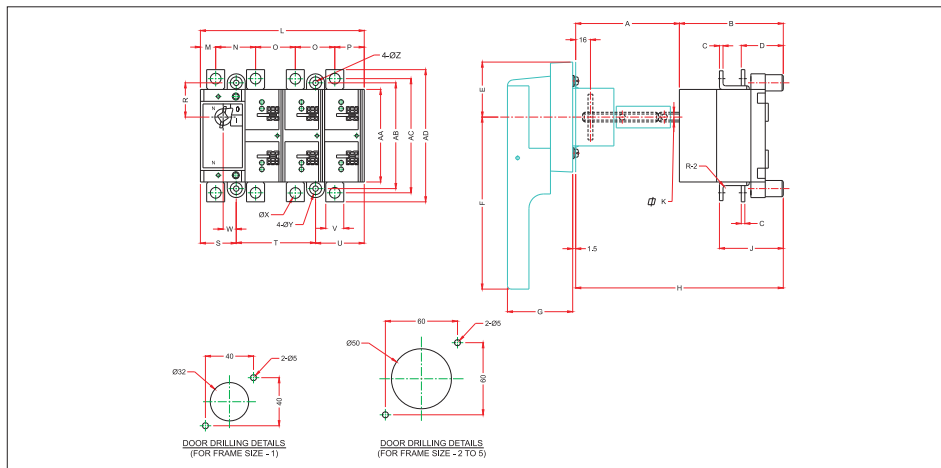
IN1SA-32A, 63A IN1SA-125A, 160A, IN1SA-200A, 250A IN1SA-315A, 400A IN1SA-630A

Size	A	B	C	D	E	F	G	H	J	K	L	M
IN1SA - 32,63A	229	190	39	260	33.5	193	270	140	65	Ø6 - 0	2 - Ø38	2 - Ø26
IN1SA - 125,160A	255	200	55	280	33.5	213	300	165	67.5	Ø6 - 0	2 - Ø38	2 - Ø26
IN1SA - 200,250A	275	220	55	346	43	260	350	212	69	Ø9 - 0	2 - Ø52	2 - Ø38
IN1SA - 315,400A	300	245	55	378	44.5	289	350	218	66	Ø9 - 0	4 - Ø60	-
IN1SA - 630A	330	275	55	480	45	390	600	515	42.5	Ø6 - 0	4 - Ø60	-

All dimensions are in mm.

Switch Disconnectors

Open Execution



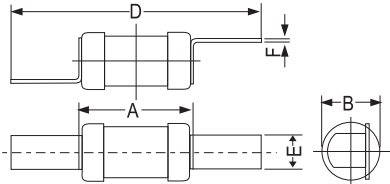
IN1SD-63A, 125A IN1SD-200A, 250A IN1SD-315A, 400A IN1SD-630A, IN1SD-800A

Size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
IN1SD - 63A,125A	92	86	3	33	33	54	39	178	56	8	142	19	33	33	24	23	35.5	66	40.5	15	14	Ø8.5	Ø9.5	Ø4.5	77	88	118	138
IN1SD-200A,250A	90	94	4	41	46	163	55	184	41	8	168	13	45	45	22.5	37.5	40.5	78	49.5	20	14.5	Ø10.5	Ø9.5	Ø4.5	107	118	175	205
IN1SD-315A,400A	90	114	4	49	46	163	55	204	85	10	235	29	58	58	38	47	53	114	68	28	21	Ø12.5	Ø12	Ø6	140	157	217	270
IN1SD-630A	90	140.5	6	58	46	163	55	230.5	-	12	280	31.5	66.5	68	46	51	84	136	80	40	24	Ø12.5	Ø14.5	Ø7	160	180	246	300
IN1SD-800A	90	164	6	73.5	46	232	55	254	-	12	356	37	85	85	64	60	79.5	170	106.5	50	29	Ø16.5	Ø16	Ø7	200	228	256	306

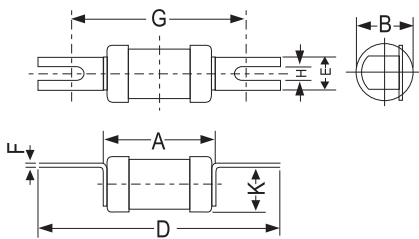
All dimensions are in mm.

# Dimensions

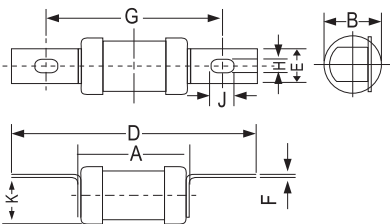
## Bolted Type HRC Fuse Links



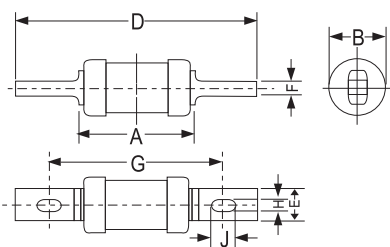
Ref. No.	Ref. As per IS:13703 / IEC 269	A	B	D	E	F
FGN	F1	34	14.2	60	11	0.8



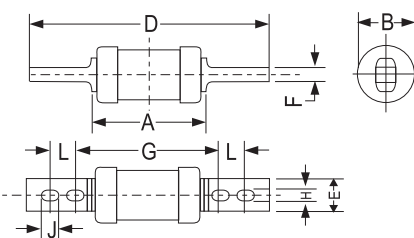
Ref. No.	Ref. As per IS:13703 / IEC 269	A	B	D	E	F	G	H	K
FSS	A3	56	21.5	88.5	12.7	1.2	73	5.5	23



Ref. No.	Ref. As per IS:13703 / IEC 269	A	B	D	E	F	G	H	J	K
FSA	A2	56	21.5	84.5	8.7	1.2	73	5.5	8	23
FSDCP	A4	64.5	31.8	110	17	2.65	94	8.7	10	33
FSFP	-	73	39.5	110	19	2.35	94	8.7	11	42



Ref. No.	Ref. As per IS:13703 / IEC 269	A	B	D	E	F	G	H	J
FSDC	B1	63.5	31.8	136	17	3.2	111	8.7	11
FSF	B2	72	39.5	132	19	3.2	111	8.7	11
FSK	B3	70	50.5	136	25.4	3.2	111	8.7	11
FMP	B4	72	50.5	136	25.4	5.3	111	8.7	11
FTS	-	71	70	156	25.4	6.5	133	10.3	12.5

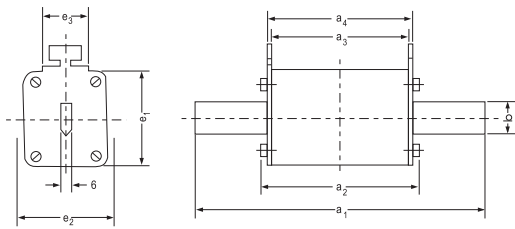


Ref. No.	Ref. As per IS:13703 / IEC 269	A	B	D	E	F	G	H	J
FTM	C2	71	70	208	25.4	6.5	133	10.3	12.5

All dimensions are in mm.

# Dimensions

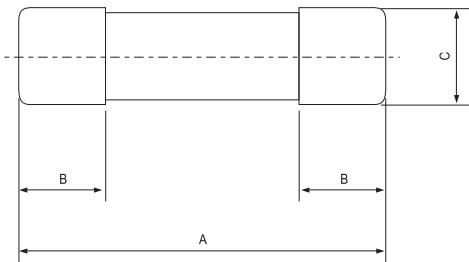
## DIN Type HRC Fuse Links



Type	Rated Current	a1	a2	a3	a4	b	e1	e2	e3
SIZE-000	6-63A	78.5	52.5	46	49.2	15	40	21	20
SIZE-00	6-160A	78.5	51.5	45.5	49	15	43	30	20
SIZE-0	63-100A	125	66.5	60.5	63.7	15	43	28	20
# SIZE- 1 (Compact)	32-160A	135	70	63	67	15	43	30	20
SIZE- 1 (Normal)	200-250A	135	70	63	67	20	48	46	22
# SIZE- 2 (Compact)	100-250A	150	70	63	67	20	48	46	22
SIZE- 2 (Normal)	315-400A	150	72	60.5	67	33	57	56	25
SIZE-3	315-630A	150	73	62	68.5	25	68	66	25

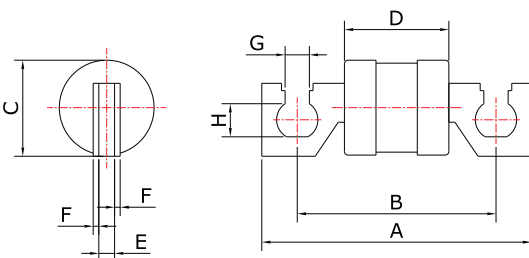
# Also available in normal size on request.

## Cylindrical Type HRC Fuse Links



Type	Rating	A	B	C
ZR-1(14X51)	2 - 63A	51	10	14.3
ZR-2(22X58)	10 - 100A	58	16	22.2
ZR-3(30X57)	80 - 100A	57	16	30.16
ZR-4(17X51)	45 - 63A	51	12.5	16.7

## 'J' Type HRC Fuse Links



Type	Rating	A	B	C	D	E	F	G	H
SMJ-30	315A	111	82	39	44	6.5	2.3	17	14
SMJ-31	315A	131	92	39	41	8.1	3.2	20	17
SPJ-30	400A	111	82	50	44	6.5	2.3	17	14
SPJ-31	400A	131	92	50	41	8.1	3.2	20	17

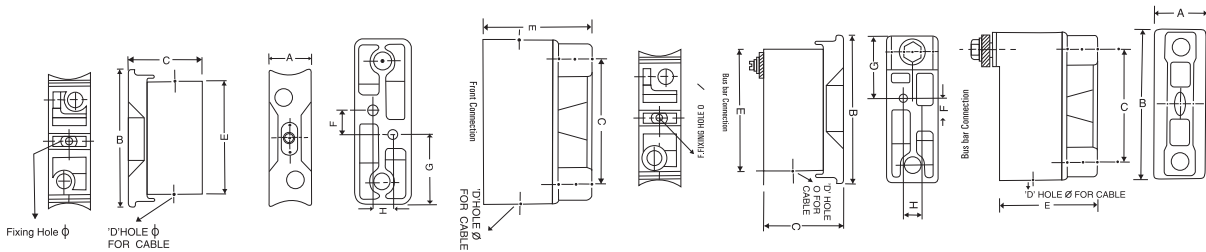
All dimensions are in mm.



## BS Type Fuse Base

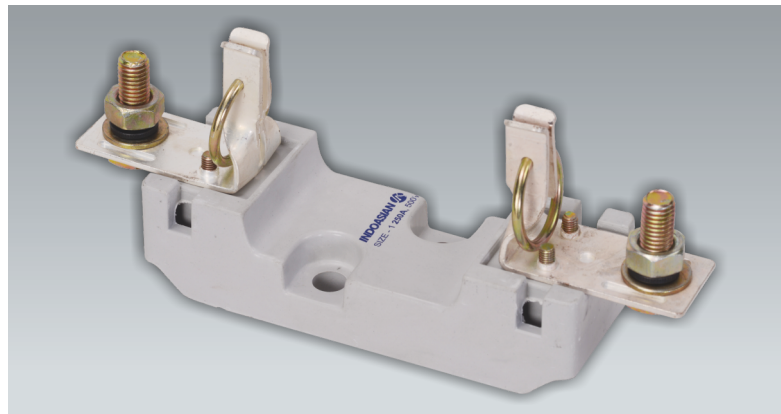
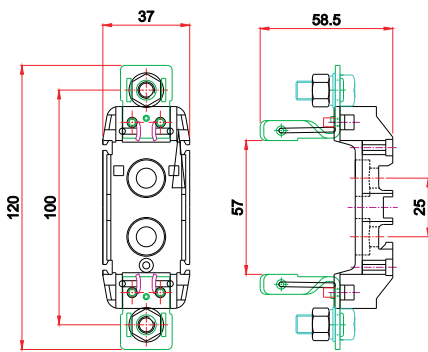
### Technical & Performance Characteristics

Rating Amps	Type	List No.	Prefix Letters of Fuse Links Accomodated	A	B	C	D	E	F	G	H
20	Front Connection	OFCB015	FGN								
20	Bus Bar Type	OFCB015	FGN	26	81	44	5	67	5	.	.
32	Front Connection	OFCB032	FSA								
32	Bus Bar Type	OFCB032	FSA	32	98.5	66	6.3	73	6.5	46.5	12.5
63	Front Connection	OFCB063	FSS								
63	Bus Bar Type	OFCB063	FSS	35	105	70.5	8	73	6.5	46.5	12.5
100	Front Connection	OFCB100	FSDCP								
100	Bus Bar Type	OFCB100	FSDCP	48	131	92	14	94	22	54.5	19



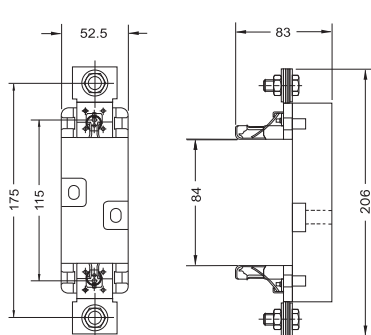
## DIN Type Fuse Base

SIZE 00 (PBT FUSE BASE)

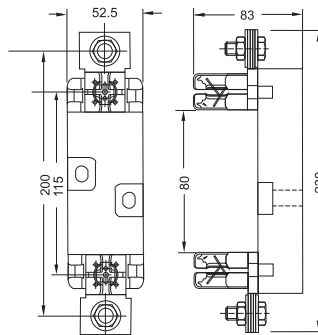


(DMC FUSE BASE)

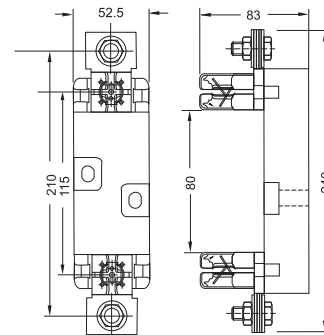
SIZE 1



SIZE 2



SIZE 3



All dimensions are in mm.

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