

— optipro™ —

ALL THAT YOU NEED

INDOASIAN ™
MAKES SENSE

The Complete Solution

Indo Asian with its Indian origin and a strong presence has garnered longstanding trust amongst its consumers over the past 56 years. Indo Asian's high quality products and their unmatched value are a result of frugal engineering that caters especially to the Indian market.

Today we present to you, the Optipro range – the reliable choice in protection devices. Optipro's flexible range includes best quality products that are priced just right, and it is all that you need. Coming from the company that has expertise in catering to this product segment, it makes sense to choose Optipro for your dream projects.



The Range

Optipro is a result of clear understanding of consumer needs. The extensive range which includes MCBs, Isolators, RCCBs, and Accessories takes care of your project requirements. They are designed to provide complete protection against short-circuits, overloads and residual current faults and thus making Optipro a safe and reliable choice for your projects.



The Quality

Optipro is developed through an engineering process that reduces complexity in production but, at the same time, promises uncompromising quality. The homogeneity of these products is evident in their firm finishes. The technical identifications on the products withstand the test of time, thanks to high quality pad printing. The carefully selected components that make up the Optipro range are resistant to extreme weather conditions and thus ensure durability and great performance.



The Right Deal

Indo Asian has stayed true to its brand promise of true value. Optipro doesn't just promise a comprehensive range of great quality, but offers it at the right deal, making it 'All That You Need'.



Features

Complete Range

The complete range of Optipro includes MCBs, Isolators, RCCBs, and Accessories.



Exceptional Endurance

The products have high electrical and mechanical endurance, with ambient temperature of -25°C to $+70^{\circ}\text{C}$.

Breaking Capacity

The devices in the range have a breaking capacity of 10kA.

Line Load Reversibility

The design enables line load reversibility in MCBs which means that you can connect the load from either side (top or bottom) of the MCB.



Contact Indication Window

The devices are designed as per user friendliness.

The visual indications helps users identify the position of MCB.

- Red = ON
- Green = OFF

Large Terminal

The 35 sq mm terminal is designed to incorporate wires of bigger sizes.

It ensures safety by making sure that the loose ends of the wires are tightly held and don't hang around.

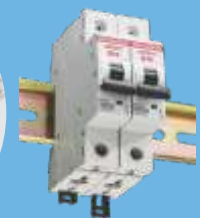


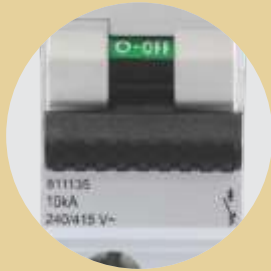
Protection IP 20

We realize the importance of safety, and have designed the range in such a way that no live parts are exposed to human contact, thus making the devices safe to use.

Dual Position Clamp

The dual position clamp helps in easy mounting and unmounting of the MCB.





Superior Design

Optipro's homogenous design is aesthetically superior and built in with features like the ergonomically designed knob for better grip and good quality pad printing.

Air Flow Channel

The special air flow channel on the MCBs allows the air to come out. This, in turn, helps in maintaining the temperature inside and thereby increases its durability.



Bi-connect Terminal

The bi-connect terminal provides flexibility by allowing the lines to be connected through both wires or bus bars.

Power Loss per Pole (Watts)

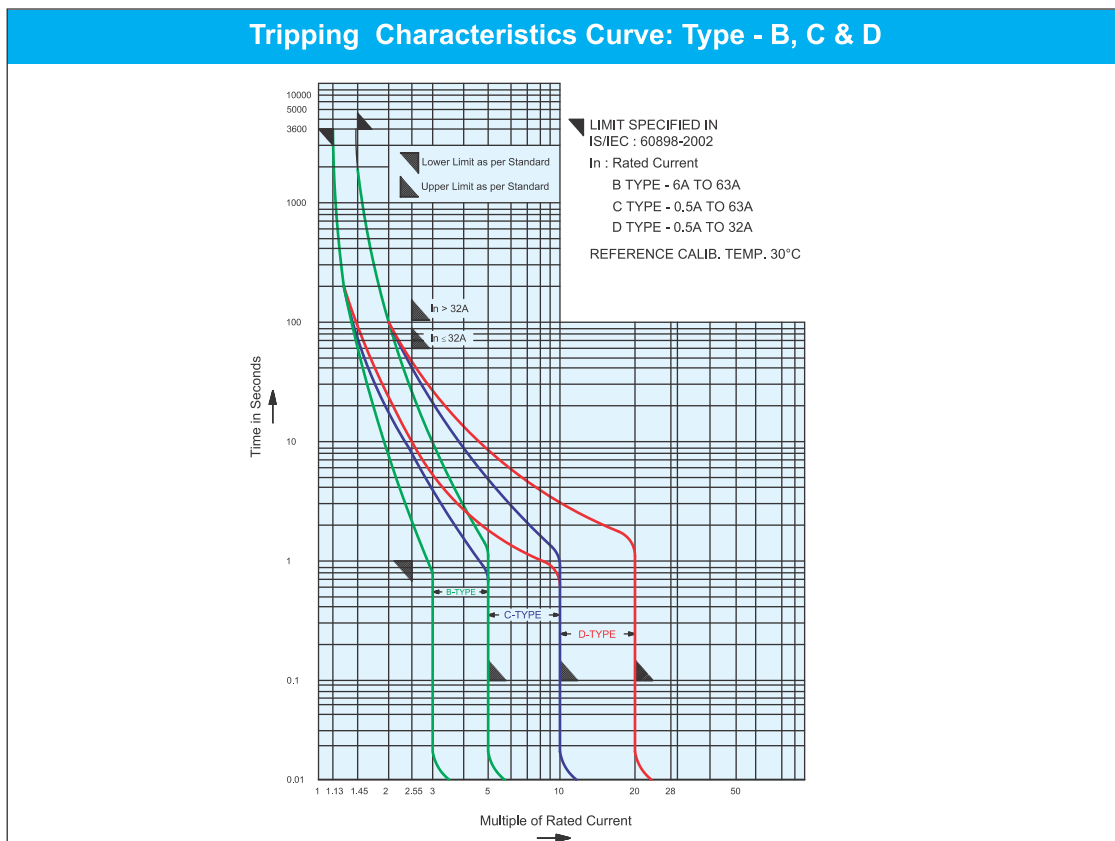
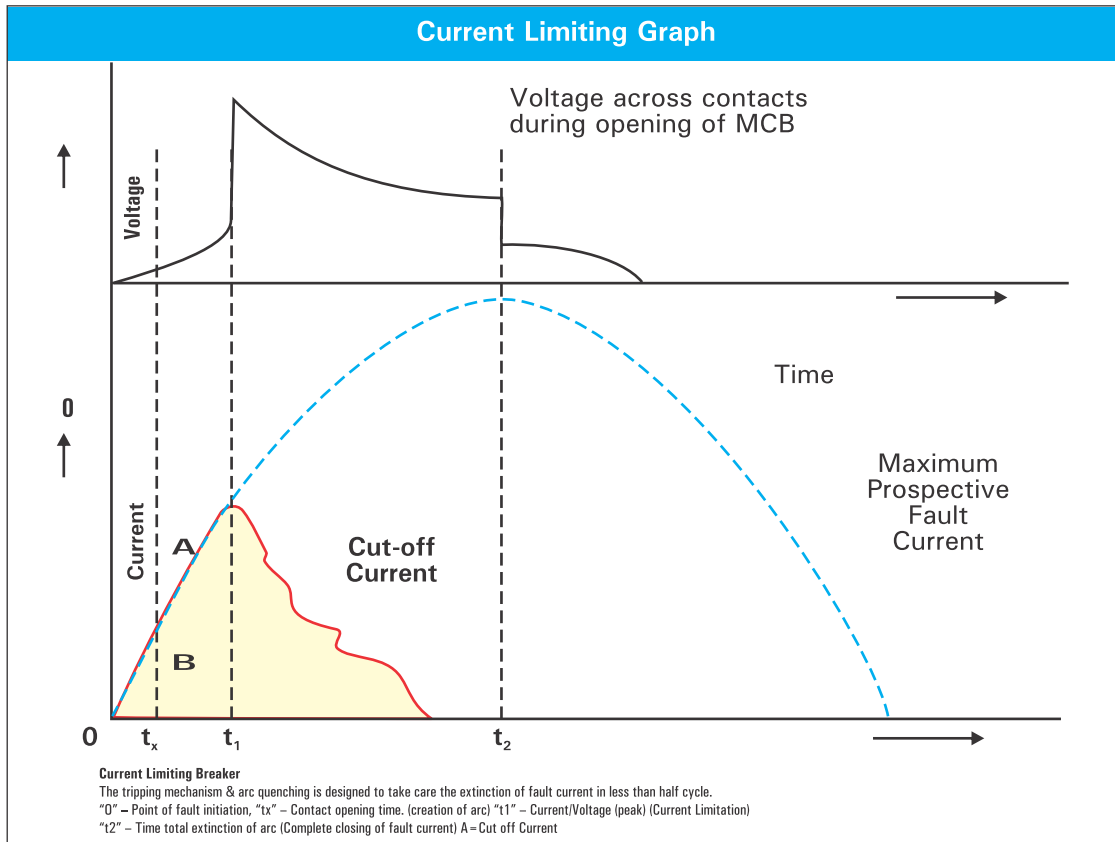
Circuit breakers B and C curves									
Rated Current	6 A SP	10 A SP	16 A SP	20 A SP	25 A SP	32 A SP	40 A SP	50 A SP	63 A SP
Optipro	0.9	1.9	2.2	3.0	3.7	3.9	4.0	4.6	5.5
As per IS/IEC 60898-1	3	3	3.5	4.5	4.5	6	7.5	9	13

De-rating of circuit-breakers:

Ambient Temperature / In (in A)										
In (A)	- 25 °C	- 10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
6	7.5	7	6.6	6.4	6.18	6	5.8	5.6	5.4	5.2
10	12.5	11.5	11.1	10.7	10.3	10	9.7	9.3	9	8.7
16	20	18.7	18	17.3	16.6	16	15.4	14.7	14.1	13.5
20	25	23.2	22.4	21.6	20.8	20	19.2	18.4	17.6	16.8
25	31.5	29.5	28.3	27.2	26	25	24	22.7	21.7	20.7
32	41	37.8	36.5	34.9	33.3	32	30.7	29.1	27.8	26.5
40	51	48	46	44	42	40	38	36	34	32
50	64	60	57.5	55	52.5	50	47.5	45	42.5	40
63	80.6	75.6	72.5	69.9	66.1	63	59.8	56.1	52.9	50.4

Reference temperature: 30°C according to standard IS / IEC 60898-1

Technical Characteristics - MCB



Technical Characteristics - RCCB

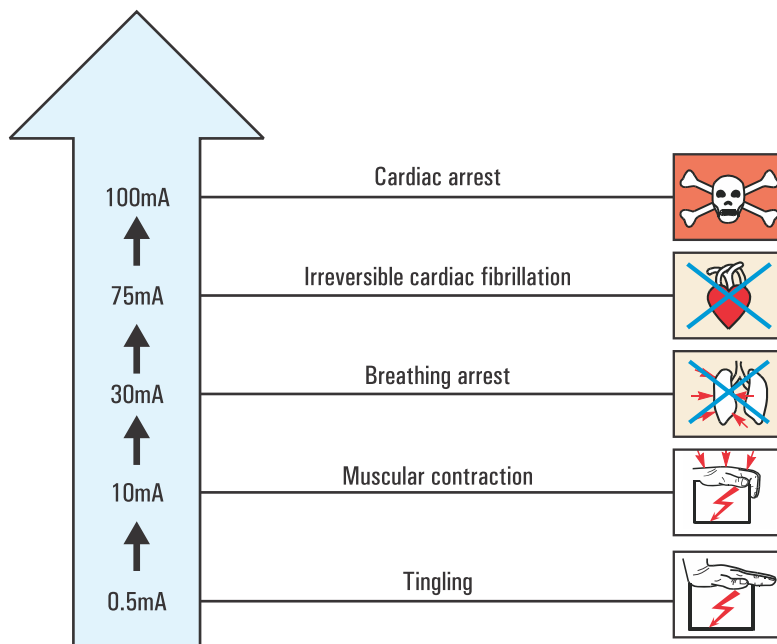
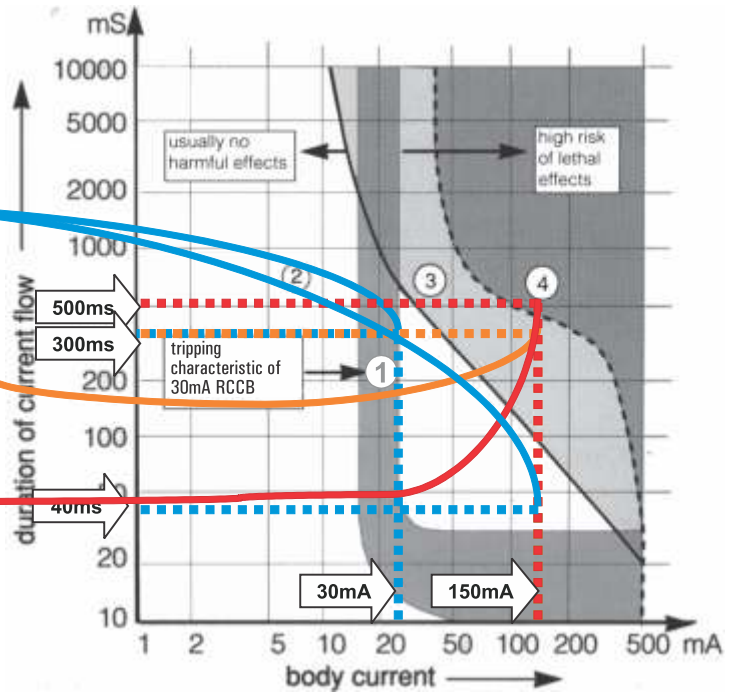
Tripping Characteristics Curve

Tripping characteristics of a 30mA RCCB (1)

No harmful effects (2)

Dangerous level (3)

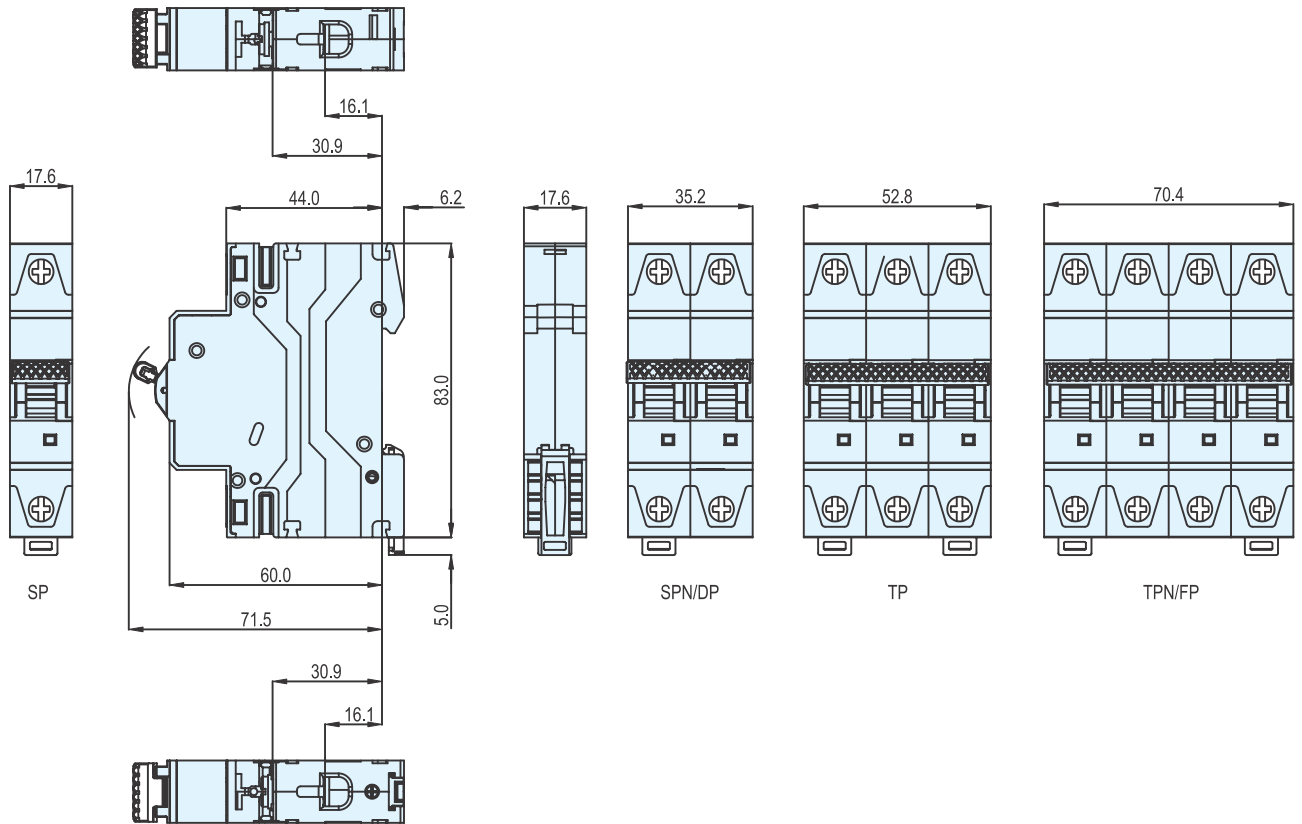
High risk of lethal effects (4)



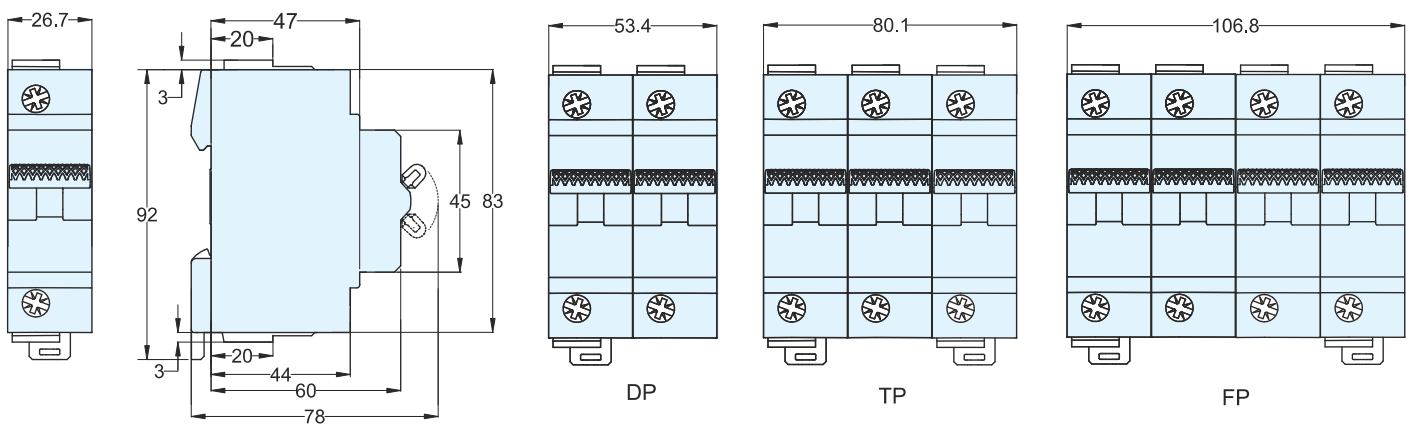
Human Body's reaction to Electric Shock

Dimensions

Miniature Circuit Breaker & Isolator

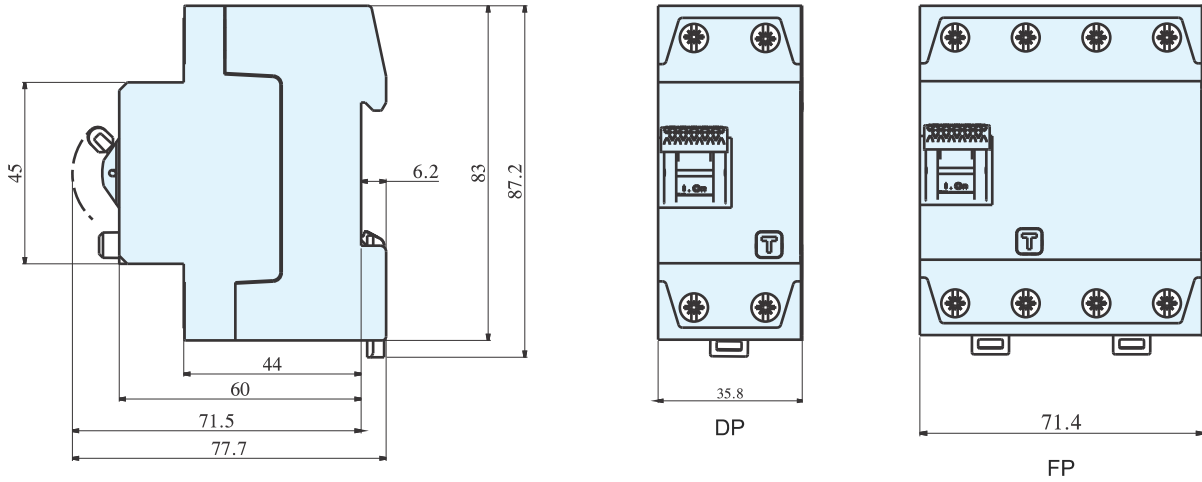


AC Circuit Breaker (80A to 125A)

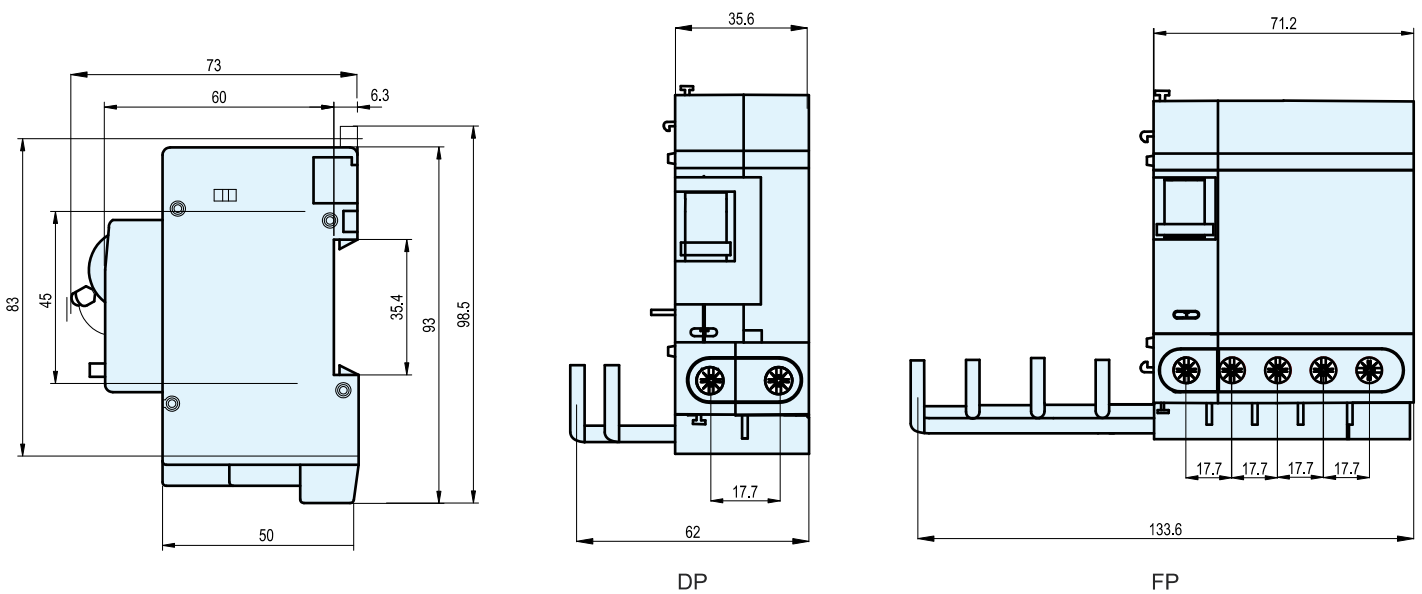


Dimensions

Residual Current Circuit Breaker - DP & FP

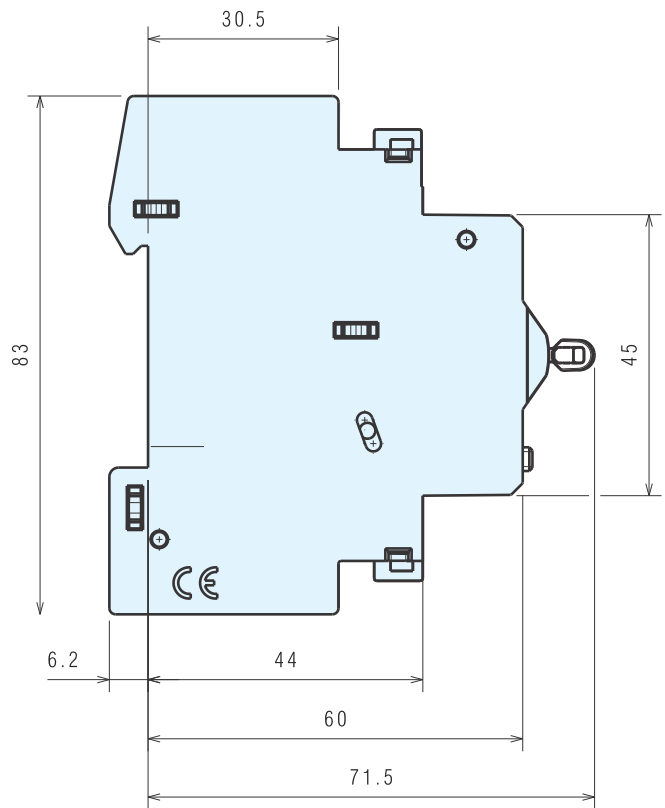
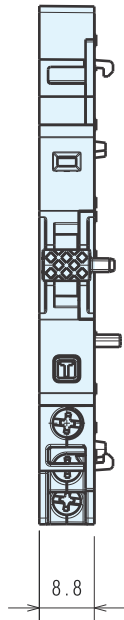
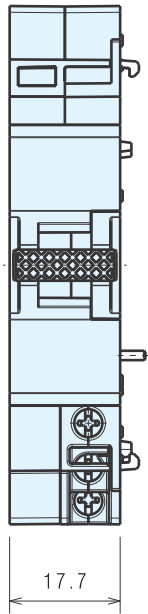


RCD Add on Block - DP & FP




Dimensions

Accessories




Miniature Circuit Breaker - MCB


- ISI / CE Marked as per IS/IEC 60898 - 1
- Rated Short-Circuit Breaking Capacity, Icn 10kA
- Degree of Protection IP 20
- Energy Limitation Class 3
- Line Load Reversibility
- 35 sq. mm Terminals
- Biconnect Terminals
- Frequency: 50 Hz
- Operating Voltage : 240V / 415V AC , 60V DC per pole

	Cat. Nos.	Rating (A)	Pack
	811008	6	1/12/180
	811009	7.5	1/12/180
	811010	10	1/12/180
	811011	13	1/12/180
	811012	16	1/12/180
	811013	20	1/12/180
	811014	25	1/12/180
	811015	32	1/12/180
	811016	40	1/12/180
811017	50	1/12/180	
811018	63	1/12/180	

**B Curve
Single Pole**

	Cat. Nos.	Rating (A)	Pack
	811027	6	1/6/90
	811028	7.5	1/6/90
	811029	10	1/6/90
	811030	13	1/6/90
	811031	16	1/6/90
	811032	20	1/6/90
	811033	25	1/6/90
	811034	32	1/6/90
	811035	40	1/6/90
811036	50	1/6/90	
811037	63	1/6/90	

**B Curve
Single Pole
Neutral**


	Cat. Nos.	Rating (A)	Pack
	811046	6	1/6/90
	811047	7.5	1/6/90
	811048	10	1/6/90
	811049	13	1/6/90
	811050	16	1/6/90
	811051	20	1/6/90
	811052	25	1/6/90
	811053	32	1/6/90
	811054	40	1/6/90
811055	50	1/6/90	
811056	63	1/6/90	


**B Curve
Double Pole**


	Cat. Nos.	Rating (A)	Pack
	811114	0.5	1/12/180
	811115	1	1/12/180
	811116	1.6	1/12/180
	811117	2	1/12/180
	811119	3	1/12/180
	811120	4	1/12/180
	811121	5	1/12/180
	811122	6	1/12/180
	811123	7.5	1/12/180
811124	10	1/12/180	
811125	13	1/12/180	
811126	16	1/12/180	
811127	20	1/12/180	
811128	25	1/12/180	
811129	32	1/12/180	
811130	40	1/12/180	
811131	50	1/12/180	
811132	63	1/12/180	


**C Curve
Single Pole**

Miniature Circuit Breaker - MCB


 <p>C Curve Single Pole Neutral</p>	Cat. Nos.	Rating (A)	Pack
	811136	0.5	1/6/90
	811137	1	1/6/90
	811138	1.6	1/6/90
	811139	2	1/6/90
	811141	3	1/6/90
	811142	4	1/6/90
	811143	5	1/6/90
	811144	6	1/6/90
	811145	7.5	1/6/90
	811146	10	1/6/90
	811147	13	1/6/90
	811148	16	1/6/90
	811149	20	1/6/90
	811150	25	1/6/90
	811151	32	1/6/90
811152	40	1/6/90	
811153	50	1/6/90	
811154	63	1/6/90	

 <p>C Curve Three Pole</p>	Cat. Nos.	Rating (A)	Pack
	811180	0.5	1/4/60
	811181	1	1/4/60
	811182	1.6	1/4/60
	811183	2	1/4/60
	811185	3	1/4/60
	811186	4	1/4/60
	811187	5	1/4/60
	811188	6	1/4/60
	811189	7.5	1/4/60
	811190	10	1/4/60
	811191	13	1/4/60
	811192	16	1/4/60
	811193	20	1/4/60
	811194	25	1/4/60
	811195	32	1/4/60
811196	40	1/4/60	
811197	50	1/4/60	
811198	63	1/4/60	


 <p>C Curve Double Pole</p>	Cat. Nos.	Rating (A)	Pack
	811158	0.5	1/6/90
	811159	1	1/6/90
	811160	1.6	1/6/90
	811161	2	1/6/90
	811163	3	1/6/90
	811164	4	1/6/90
	811165	5	1/6/90
	811166	6	1/6/90
	811167	7.5	1/6/90
	811168	10	1/6/90
	811169	13	1/6/90
	811170	16	1/6/90
	811171	20	1/6/90
	811172	25	1/6/90
	811173	32	1/6/90
811174	40	1/6/90	
811175	50	1/6/90	
811176	63	1/6/90	

 <p>C Curve Three Pole Neutral</p>	Cat. Nos.	Rating (A)	Pack
	811202	0.5	1/3/45
	811203	1	1/3/45
	811204	1.6	1/3/45
	811205	2	1/3/45
	811207	3	1/3/45
	811208	4	1/3/45
	811209	5	1/3/45
	811210	6	1/3/45
	811211	7.5	1/3/45
	811212	10	1/3/45
	811213	13	1/3/45
	811214	16	1/3/45
	811215	20	1/3/45
	811216	25	1/3/45
	811217	32	1/3/45
811218	40	1/3/45	
811219	50	1/3/45	
811220	63	1/3/45	

Miniature Circuit Breaker - MCB

	Cat. Nos.	Rating (A)	Pack
	811224	0.5	1/3/45
	811225	1	1/3/45
	811226	1.6	1/3/45
	811227	2	1/3/45
	811229	3	1/3/45
	811230	4	1/3/45
	811231	5	1/3/45
	811232	6	1/3/45
	811233	7.5	1/3/45
	811234	10	1/3/45
	811235	13	1/3/45
	811236	16	1/3/45
	811237	20	1/3/45
	811238	25	1/3/45
	811239	32	1/3/45
	811240	40	1/3/45
	811241	50	1/3/45
811242	63	1/3/45	


**C Curve
Four Pole**

	Cat. Nos.	Rating (A)	Pack
	811284	0.5	1/6/90
	811285	1	1/6/90
	811286	1.6	1/6/90
	811287	2	1/6/90
	811289	3	1/6/90
	811290	4	1/6/90
	811291	5	1/6/90
	811292	6	1/6/90
	811293	7.5	1/6/90
	811294	10	1/6/90
	811295	13	1/6/90
	811296	16	1/6/90
	811297	20	1/6/90
	811298	25	1/6/90
	811299	32	1/6/90
	811300	40	1/6/90
	811301	50	1/6/90
811302	63	1/6/90	

**D Curve
Double Pole**


	Cat. Nos.	Rating (A)	Pack
	811246	0.5	1/12/180
	811247	1	1/12/180
	811248	1.6	1/12/180
	811249	2	1/12/180
	811251	3	1/12/180
	811252	4	1/12/180
	811253	5	1/12/180
	811254	6	1/12/180
	811255	7.5	1/12/180
	811256	10	1/12/180
	811257	13	1/12/180
	811258	16	1/12/180
	811259	20	1/12/180
	811260	25	1/12/180
	811261	32	1/12/180
	811262	40	1/12/180
	811263	50	1/12/180
811264	63	1/12/180	

**D Curve
Single Pole**

	Cat. Nos.	Rating (A)	Pack
	811303	0.5	1/4/60
	811304	1	1/4/60
	811305	1.6	1/4/60
	811306	2	1/4/60
	811308	3	1/4/60
	811309	4	1/4/60
	811310	5	1/4/60
	811311	6	1/4/60
	811312	7.5	1/4/60
	811313	10	1/4/60
	811314	13	1/4/60
	811315	16	1/4/60
	811316	20	1/4/60
	811317	25	1/4/60
	811318	32	1/4/60
	811319	40	1/4/60
	811320	50	1/4/60
811321	63	1/4/60	


**D Curve
Three Pole**


Miniature Circuit Breaker - MCB


 D Curve Four Pole	Cat. Nos.	Rating (A)	Pack
	811341	0.5	1/3/45
	811342	1	1/3/45
	811343	1.6	1/3/45
	811344	2	1/3/45
	811346	3	1/3/45
	811347	4	1/3/45
	811348	5	1/3/45
	811349	6	1/3/45
	811350	7.5	1/3/45
	811351	10	1/3/45
	811352	13	1/3/45
	811353	16	1/3/45
	811354	20	1/3/45
	811355	25	1/3/45
	811356	32	1/3/45
811357	40	1/3/45	
811358	50	1/3/45	
811359	63	1/3/45	


AC Circuit Breaker

- Conforms to IEC 60947 - 2
- CE Marked
- Rated Short-Circuit Capacity, Icu 10kA
- Degree of Protection IP 20
- 1.5 Module per pole
- 50 sq. mm Terminals
- Frequency: 50 Hz
- Operating Voltage: 240V/415V AC, 60V DC per Pole

 Single Pole	Cat. Nos.	Rating (A)	Pack
	811133	80	1
	811134	100	1
	811135	125	1

 Three Pole	Cat. Nos.	Rating (A)	Pack
	811199	80	1
	811200	100	1
	811201	125	1


 Double Pole	Cat. Nos.	Rating (A)	Pack
	811177	80	1
	811178	100	1
	811179	125	1

 Four Pole	Cat. Nos.	Rating (A)	Pack
	811243	80	1
	811244	100	1
	811245	125	1

DC Circuit Breaker


- Conforms to IEC 60947 - 2
- CE Marked
- Breaking Capacity 6kA
- Degree of Protection IP 20
- 35 sq. mm Terminals
- Biconnect Terminals
- Upto 250V Supply


 Single Pole	Cat. Nos.	Rating (A)	Pack
	811400	0.5	1/12/180
	811401	1	1/12/180
	811402	1.6	1/12/180
	811403	2	1/12/180
	811405	3	1/12/180
	811406	4	1/12/180
	811407	5	1/12/180
	811408	6	1/12/180
	811409	7.5	1/12/180
	811410	10	1/12/180
	811411	13	1/12/180
	811412	16	1/12/180
	811413	20	1/12/180
	811414	25	1/12/180
	811415	32	1/12/180
	811416	40	1/12/180
811417	50	1/12/180	
811418	63	1/12/180	


 Double Pole	Cat. Nos.	Rating (A)	Pack
	811419	0.5	1/6/90
	811420	1	1/6/90
	811421	1.6	1/6/90
	811422	2	1/6/90
	811424	3	1/6/90
	811425	4	1/6/90
	811426	5	1/6/90
	811427	6	1/6/90
	811428	7.5	1/6/90
	811429	10	1/6/90
	811430	13	1/6/90
	811431	16	1/6/90
	811432	20	1/6/90
	811433	25	1/6/90
	811434	32	1/6/90
	811435	40	1/6/90
811436	50	1/6/90	
811437	63	1/6/90	

Isolator

- Conforms to IEC 60947-3
- CE Marked
- Degree of Protection IP 20
- 35 sq. mm Terminals
- Biconnect Terminals
- Frequency: 50 Hz
- Operating Voltage: 240V/415V AC, 60V DC per Pole


 Three Pole	Cat. Nos.	Rating (A)	Pack
	811555	40	1/4/60
	811556	63	1/4/60
	811557	80	1/4/60
	811558	100	1/4/60
811559	125	1/4/60	

 Double Pole	Cat. Nos.	Rating (A)	Pack
	811550	40	1/6/90
	811551	63	1/6/90
	811552	80	1/6/90
	811553	100	1/6/90
811554	125	1/6/90	


 Four Pole	Cat. Nos.	Rating (A)	Pack
	811560	40	1/3/45
	811561	63	1/3/45
	811562	80	1/3/45
	811563	100	1/3/45
811564	125	1/3/45	

Residual Current Circuit Breaker - RCCB

- ISI/CE Marked as per IS/IEC 12640 - 1
- Degree of Protection IP 20
- Rated Conditional Short-Circuit Current, Inc 10kA
- 35 sq. mm Terminals
- Biconnect Terminals
- Frequency: 50 Hz
- Operating Voltage: 240V/415V AC

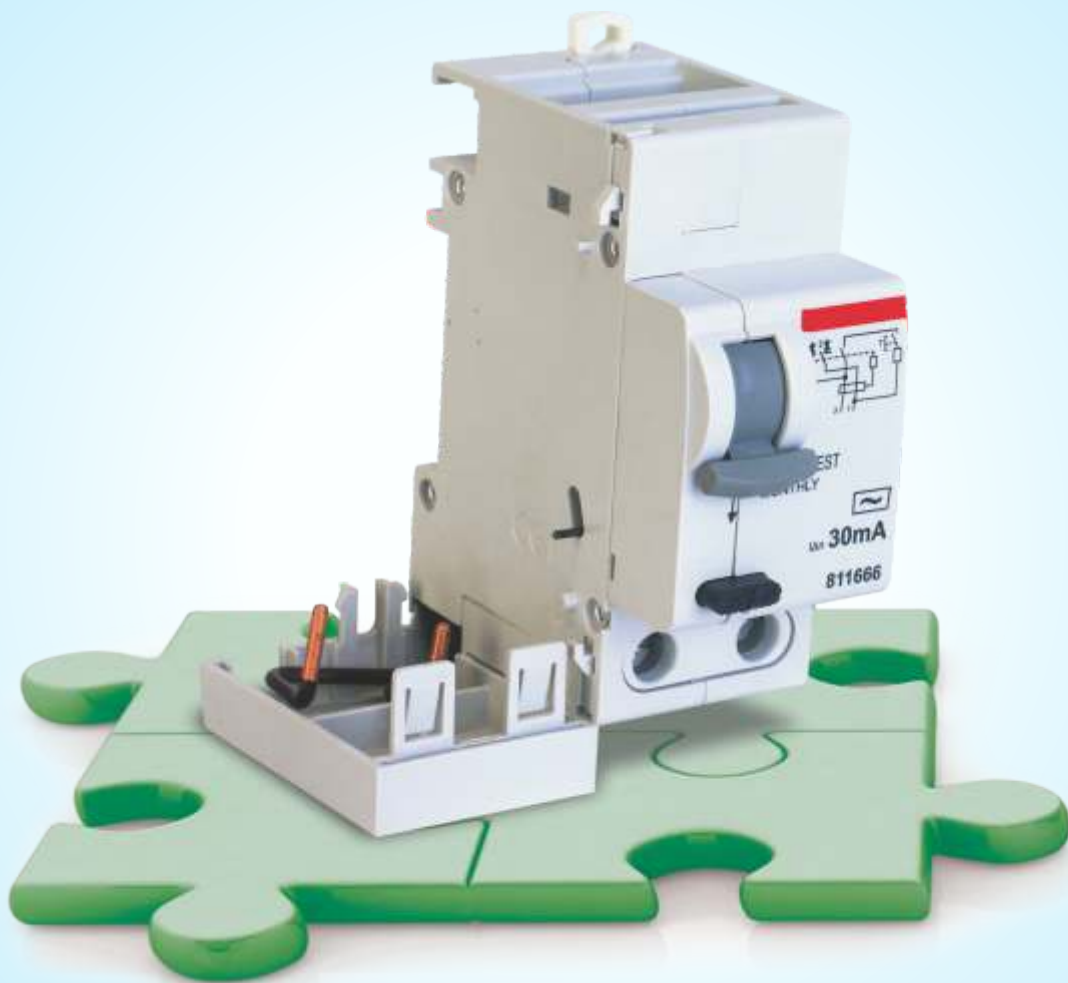
	Rating (A)	Sensitivity (mA)	Cat. Nos.	Pack
	25		30	811700
		100	811706	1/6/90
		300	811712	1/6/90
40		30	811701	1/6/90
		100	811707	1/6/90
		300	811713	1/6/90
63		30	811702	1/6/90
		100	811708	1/6/90
		300	811714	1/6/90

Double Pole

	Rating (A)	Sensitivity (mA)	Cat. Nos.	Pack
	25		30	811718
		100	811724	1/3/45
		300	811730	1/3/45
40		30	811719	1/3/45
		100	811725	1/3/45
		300	811731	1/3/45
63		30	811720	1/3/45
		100	811726	1/3/45
		300	811732	1/3/45

Four Pole

RCD Add On Block





Features:

- Range: 06A to 63A in 30mA/100A/300mA Sensitivity
- Conforms to IEC 60947-2
- Degree of Protection IP 20
- Rated Conditional Short-Circuit Current, I_{cc} 10kA
- 35 sq. mm Terminals
- Dual Position DIN Clip
- Flexibility to use MCB of any Tripping Curve.

RCD Add on Block


- Conforms to IEC 60947-2
- Degree of Protection IP 20
- Rated Conditional Short-Circuit Current, Icc 10kA
- 35 sq. mm Terminals
- Dual Position DIN Clip
- Flexibility to use MCB of any Tripping Curve.

 Double Pole	Rating (A)	Sensitivity (mA)	Cat. Nos.	Pack
	6A - 32A		30	811666
		100	811668	1/ - /32
		300	811670	1/ - /32
40A & 63A		30	811667	1/ - /32
		100	811669	1/ - /32
		300	811671	1/ - /32

 Four Pole	Rating (A)	Sensitivity (mA)	Cat. Nos.	Pack
	6A - 32A		30	811672
		100	811674	1/ - /16
		300	811676	1/ - /16
40A & 63A		30	811673	1/ - /16
		100	811675	1/ - /16
		300	811677	1/ - /16

Accessories

- Conforms to IEC 60947 - 5 - 1
- Retro Fit Type Clip On Accessory
- CE Marked
- Upto Three Number of Accessory on a Modular Device
- Common Accessories for Entire Range
- Easy To Install

 Accessories	Item Description	Cat. Nos.	Pack
	Auxiliary Changeover Switch 1NO	811580	1
Fault Signalling Contact 1NC	811581	1	
Shunt Trip 12V to 48V AC/DC	811582	1	
Shunt Trip 110V to 415V AC	811583	1	
Undervoltage 24V & 48V AC/DC	811584	1	
Undervoltage 240V AC	811585	1	

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