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CAT/Microprocessor MCCB/05-20

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Allahabad	Berhampur	Goa	Kanyakumari	Nagerkoil	Sholapur	Vellore
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Angul	Calicut	Jamshedpur	Mangalore	Rourkela	Trivandrum	
Bareilly	Cuttack	Jalandhar	Meerut	Salem	Udaipur	

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Microprocessor MCCB

- COMPACT & OPTIMIZED design
- High level of SAFETY
- Made of HIGH quality of Polyster Resin G.F. material
- True RMS sensing for precise and RELIABLE protection
- VARIED settings for Current & Time

*intelli*TAB
intelligent protection RANGE

HPL
SWITCHGEAR

Microprocessor MCCB

*intelli*TAB

intelligent protection RANGE

HPL intelli TAB range of Moulded Case Circuit Breakers are manufactured in the state-of-the-art plant in Kundli, Sonepat. These MCCBs are provided with Microprocessor based Trip Release which gives Overload, Short circuit and Ground Fault protection with precision. These MCCBs deliver comprehensive solutions to customer applications ensuring operational safety, reliability and versatility. These are provided with all the accessories like Shunt coils, UVT coils, Auxiliary and Alarm Contacts etc.

Corporate Information

HPL's vision of creating a niche, as a major player in India Electrical Industry with commitment to state-of-the-art technology & world class products.

HPL Group possess 7 State-of-the-art Manufacturing Facilities, ISO 9001 : 2000; ISO 14001; OHSAS 18001 certified located at Gurgaon, Kundli, Panipat and Jabli Himachal Pradesh having 5,00,000 sq. feet covered area to manufacture products conforming to International and Indian standards.

HPL Products Profile has the following Strategic Business Units :

- LV Switchgears
- LV Protection Devices
- Metering and Energy Management Systems
- Lighting
- Luminaires
- Wires & Cables
- Solar Solutions
- Electrical Wiring Accessories

HPL Products are tested at CPRI, ERDA, ERTL, NPL etc. according to Indian Standards, whereas MCB's Rewireable Switches & Electronic Energy Meters carry ISI marking. Further HPL products have approvals from CPWD, State PWD's, MES, BSNL & many more Institutional users.

HPL Group with Head Office at Noida (U.P.) has extensive Sales & Marketing Network of 90 Branch offices & Representative Offices, over 2000+ Authorised Dealers and 27000+ Retailers across country, who are committed to provide solutions and services to customer's delight. HPL is also exporting its products to Middle East, SAARC and European Countries.

Current Range (Ampere)

HPL intelli TAB range of MCCBs are available in the following Frame sizes in 3-Pole & 4-Pole versions:

- Frame-2: 63A, 80A, 100A, 125A, 160A, 200A, 250A
- Frame-3: 250A, 315A, 400A, 500A
- Frame-4: 500A, 630A, 800A

Salient Features

- Compact & Optimized Design
- High level of SAFETY
- Made of HIGH quality of Polyster Resin G.F. material
- True RMS sensing for precise and RELIABLE protection
- VARIED settings for Current & Time
- Overload protection ADJUSTABLE in the range 30% to 100% of In with variable time setting
- Short circuit Protection ADJUSTABLE in the range 400% to 1000% of Ir with variable time setting
- Ground Fault Protection ADJUSTABLE in the range 10% to 40% of In with variable time setting
- Suitable for DISCRIMINATION
- NO EXTERNAL Power required for the electronic circuit
- Field Testing facility available
- CONSISTENT performance and LONG Life

Microprocessor MCCB

intelliTAB intelligent protection RANGE

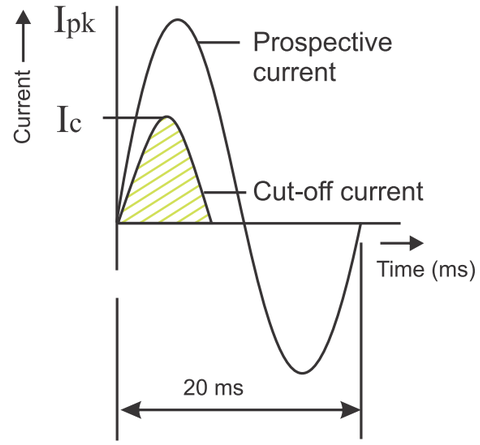
Working Principle

These MCCBs work on Current Limiting principle. In case of any fault, the breaker's tripping mechanism opens the circuit so fast that very low energy (I^2t) is released in a very short time so that the entire system connected on the Load side is fully protected. This is achieved by

- Reversing current mechanism opens the contacts fast
- The intelligent Arc Interrupter
- Arc guided rapidly away from the separating contacts and towards the arc chamber
- Quick arc quenching in the arc chamber

As a result, there is substantial reduction in the peak current which reduces the overall electro-thermal dynamic stresses produced in the system during fault conditions helping the downstream devices to be SAFE & SECURED.

Moreover, during fault condition, the current transformers fitted in the circuit of each phase senses the current and sends signal to the tripping device through the electronic circuit and trips the breaker. For discrimination, the tripping time and respective tripping current can be set with the help of Piano type DIP switches provided on the front of the breaker.



Operating Conditions

- Altitude: It should be less than 2000m
- Pollution Degree: These MCCBs are suitable for use in Pollution degree 3, where conductive pollution or dry non-conductive pollution that becomes conductive due to condensation occurs (Harsh environments like Industrial environment or construction sites)

Positive Isolation

Intelli TAB MCCBs ARE SUITABLE FOR ISOLATION AS PER IS/IEC 60947-2, which highlights the following points:

The operating knob should correctly show the OFF - TRIP - ON position

No leakage current between the contacts in OPEN condition

High impulse withstand capacity for the breaker

Accessories

intelliTAB MCCBs have a wide range of accessories giving convenience and additional protection.

These are of two types:

External accessories

Internal accessories

External Accessories

- **Rotary Handle**

  This is a toggle handle operating mechanism which serves as switching position indicator for ON, OFF & TRIP. Basically it is used with a breaker which is installed in an enclosure that does not allow ready access to the breaker's operating handle. The handle can be locked in OFF or ON position for safety during service condition.

- **Phase Barrier**

  Phase barriers are provided between the phases to increase the creepage distance between them thereby reducing the risk of phase to phase shorting.

Internal Accessories

- **Shunt Trip Coil**

  Shunt Trip Coil is a release energized by a source of voltage which may be independent of the main circuit voltage and provides remote tripping facility. Once the MCCB trips, the micro switch connected to the Shunt coil, prevents the coil from burning even if supply of voltage is continuous. It operates in the voltage range of 70 - 110% of the rated coil voltage. It is available in 110Vac, 240Vac, 415Vac, 24Vdc & 48Vdc.

- **Under Voltage Trip Coil**

  UVT Coil is a release which trips the breaker when the voltage drops below certain level so that the connected LOAD is protected. It operates in the voltage range of 35 - 70% of the rated coil voltage. It is available in 110Vac, 240Vac, 415Vac, 24Vdc & 48Vdc.

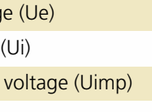
- **Auxiliary Switch**

  This is used for signaling and control purposes. It consists of one or more potential free changeover contacts and acts as an indicator whether the circuit breaker's status is OPEN or CLOSED.

- **Alarm Switch**

  This is used for giving Tripping indication once the breaker trips. It looks similar to Auxiliary Switch but operates only when the MCCB trips.

Specifications - Frame 2

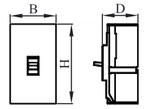
Parameters	Offered		
No. of poles	3/4		
Type	N	S	H
Rated Current (In A)	63A, 80A, 100A, 125A, 160A, 200A, 250A		
Rated Operational Voltage (Ue)	415V		
Rated Insulation Voltage (Ui)	800V		
Rated Impulse withstand voltage (Uimp)	8kV		
Rated Frequency	50/60 Hz		
Reference Ambient Calibration Temperature**	40°C		
Rated Ultimate S.C. Breaking Capacity (at 415 VAC, 50/60 Hz) Icu in kA	25	36	50
Rated Ultimate S.C. Breaking Capacity (at 230 VAC, 50/60 Hz) Icu in kA	40	65	85
Rated Service S.C. Breaking Capacity (at 415 VAC, 50/60 Hz) Ics in kA	100% Icu	100% Icu	100% Icu
Rated Service S.C. Breaking Capacity (at 230 VAC, 50/60 Hz) Ics in kA	100% Icu	100% Icu	100% Icu
Rated S.C. Making Capacity (at 415 VAC, 50/60 Hz) Icm in kA	52.5	75.6	105
Utilization Category	A		
Positive Isolation	Available		
No. of operating cycles	Mechanical-15000; Electrical-3000		
Type of Releases	Microprocessor Based Release		
Communication Jack	RJ-45 Terminal		
Test Function (TF)	↑ 1 ↑ 2 - OFF ↓ 1 ↓ 2 - ON		
Terminal Capacity (Cable)	95mm² max.		
Terminal Capacity (Link)	120mm² max.		
Terminal Capacity (Busbar width for direct mounting)	24mm max.		
Size (H x B x D)mm 	**Dim.** **H** **B** **D**	**3P** 214 105 117	**4P** 214 140 117
Gross Weight*	4.2 Kg (3P) & 5.2 Kg (4P)		
Reference Standards	IS/IEC 60947-2		

Notes :- 1. **However on demand, MCCBs can be provided with calibration done at higher temperature also.
2. As product improvement is a continuous process, HPL reserves the right to modify the above specification, in case if required.
3. *Weight shown above is for the highest rating of MCCB in the Frame size. It may vary according to different current ratings.

Microprocessor MCCB

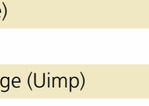
intelliTAB intelligent protection RANGE

Specifications - Frame 3

Parameters	Offered		
No. of poles	3/4		
Type	N	S	H
Rated Current (In A)	250A, 315A, 400A, 500A		
Rated Operational Voltage (Ue)	415V		
Rated Insulation Voltage (Ui)	800V		
Rated Impulse withstand voltage (Uimp)	8kV		
Rated Frequency	50/60 Hz		
Reference Ambient Calibration Temperature**	40°C		
Rated Ultimate S.C. Breaking Capacity (at 415 VAC, 50/60 Hz) Icu in kA	36	50	65
Rated Ultimate S.C. Breaking Capacity (at 230 VAC, 50/60 Hz) Icu in kA	65	85	95
Rated Service S.C. Breaking Capacity (at 415 VAC, 50/60 Hz) Ics in kA	100% Icu	75% Icu	50% Icu
Rated Service S.C. Breaking Capacity (at 230 VAC, 50/60 Hz) Ics in kA	100% Icu	75% Icu	50% Icu
Rated S.C. Making Capacity (at 415 VAC, 50/60 Hz) Icm in kA	76	105	143
Utilization Category	A		
Positive Isolation	Available		
No. of operating cycles	Mechanical-15000; Electrical-3000		
Type of Releases	Microprocessor Based Release		
Communication Jack	RJ-45 Terminal		
Test Function (TF)	↑ 1 ↑ 2 - OFF ↓ 1 ↓ 2 - ON		
Terminal Capacity (Cable)	–		
Terminal Capacity (Link)	320mm² max.		
Terminal Capacity (Busbar width for direct mounting)	28 mm max.		
Size (H x B x D)mm 	**Dim.** **H** **B** **D**	**3P** 258 140 117	**4P** 258 184 117
Gross Weight*	7.75 Kg (3P) & 9.5 Kg (4P)		
Reference Standards	IS/IEC 60947-2		

Notes :- 1. **However on demand, MCCBs can be provided with calibration done at higher temperature also.
2. As product improvement is a continuous process, HPL reserves the right to modify the above specification, in case if required.
3. *Weight shown above is for the highest rating of MCCB in the Frame size. It may vary according to different current ratings.

Specifications - Frame 4

Parameters	Offered		
No. of poles	3/4		
Type	N	S	H
Rated Current (In A)	500A, 630A, & 800A		
Rated Operational Voltage (Ue)	415V		
Rated Insulation Voltage (Ui)	800V		
Rated Impulse withstand voltage (Uimp)	8kV		
Rated Frequency	50/60 Hz		
Reference Ambient Calibration Temperature**	40°C		
Rated Ultimate S.C. Breaking Capacity (at 415 VAC, 50/60 Hz) Icu in kA	36	50	65
Rated Ultimate S.C. Breaking Capacity (at 230 VAC, 50/60 Hz) Icu in kA	65	85	95
Rated Service S.C. Breaking Capacity (at 415 VAC, 50/60 Hz) Ics in kA	100% Icu	75% Icu	50% Icu
Rated Service S.C. Breaking Capacity (at 230 VAC, 50/60 Hz) Ics in kA	100% Icu	75% Icu	50% Icu
Rated S.C. Making Capacity (at 415 VAC, 50/60 Hz) Icm in kA	76	105	143
Utilization Category	A		
Positive Isolation	Available		
No. of operating cycles	Mechanical-5000; Electrical-2500		
Type of Releases	Microprocessor Based Release		
Communication Jack	RJ-45 Terminal		
Test Function (TF)	↑ 1 ↑ 2 - OFF ↓ 1 ↓ 2 - ON		
Terminal Capacity (Cable)	--		
Terminal Capacity (Link)	430mm^2 max.		
Terminal Capacity (Busbar width for direct mounting)	43 mm max.		
Size (H x B x D)mm 	**Dim.** **H** **B** **D**	**3P** 280 210 120	**4P** 280 280 120
Gross Weight*	11.5 Kg (3P) & 15.5 Kg (4P)		
Reference Standards	IS/IEC 60947-2		

Notes :-
1. **However on demand, MCCBs can be provided with calibration done at higher temperature also.
2. As product improvement is a continuous process, HPL reserves the right to modify the above specification, in case if required.
3. *Weight shown above is for the highest rating of MCCB in the Frame size. It may vary according to different current ratings.

Microprocessor MCCB

intelliTAB intelligent protection RANGE

Electronic Trip Relay - Frame 2, 3 & 4

Parameters		Offered
Long Time Delay	Ir=In*Σ(0.3+A)	
	Current Settings (A)	0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 10
	Time Delay(sec)	1, 5, 10, 15, 20, 25, 30, 35
Short Time Delay	Is=Ir*Σ(x)	
	Current Settings (A)	4x, 6x, 8x, 10x
	Time Delay(Sec)	0.01, 0.15, 0.2, 0.35
Instantaneous Setting	Ii=10*In	Fixed
Ground Fault(Available in 4P version only)	Ig=*In	
	Current Settings(A)	0.1, 0.2, 0.3, 0.4
	Time Delay(Sec)	1, 5, 10, 15

Operating Instructions - Frame 2, 3 & 4

Operating Instruction sheet for "intelliTAB" Electronics MCCB (TP)

Settings for "LTD_C" Long Time Delay Current		Settings for "LTD_T" Long time delay Time	
A 30% 0.1 0.2 0.4	A 40% 0.1 0.2 0.4	1s 5s 10s 20s	5s 5s 10s 20s
A 50% 0.1 0.2 0.4	A 60% 0.1 0.2 0.4	10s 5s 10s 20s	15s 5s 10s 20s
A 70% 0.1 0.2 0.4	A 80% 0.1 0.2 0.4	20s 5s 10s 20s	25s 5s 10s 20s
A 90% 0.1 0.2 0.4	A 100% 0.1 0.2 0.4	30s 5s 10s 20s	35s 5s 10s 20s

NOTES:- Ir=In*Σ(0.3+A); Example:- For 90% setting of 630A, 630*Σ(0.3+0.2+0.4)=567A

■ Means "NOT IN USE"; ■ Means "ON" for the particular setting

Settings for "STD_C" Short Time Delay Current	Settings for "STD_T" Short time delay Time
8x 4x ON 4x 6x	Inst./ 0.01s ON 0.15s 0.2s
8x 6X ON 4x 6x	0.15s ON 0.15s 0.2s
8x 8x ON 4x 6x	0.2s ON 0.15s 0.2s
8x 10x ON 4x 6x	0.35s ON 0.15s 0.2s

NOTES:-Is=Ir*Σ(x); Example:- For 10x of 630A, 630*Σ(4+6);

■ Means "NOT IN USE"; ■ Means "ON" for the particular setting

Microprocessor MCCB
intelliTAB intelligent protection RANGE

Operating Instructions - Frame 2, 3 & 4

Operating Instruction sheet for "intelliTAB" Electronics MCCB (FP)

Settings for "LTD_C" Long Time Delay Current		Settings for "LTD_T" Long time delay Time	
A 30% 0.1 0.2 0.4	A 40% 0.1 0.2 0.4	1s 5s 10s 20s	5s 5s 10s 20s
A 50% 0.1 0.2 0.4	A 60% 0.1 0.2 0.4	10s 5s 10s 20s	15s 5s 10s 20s
A 70% 0.1 0.2 0.4	A 80% 0.1 0.2 0.4	20s 5s 10s 20s	25s 5s 10s 20s
A 90% 0.1 0.2 0.4	A 100% 0.1 0.2 0.4	30s 5s 10s 20s	35s 5s 10s 20s

NOTES:- Ir=In*Σ(0.3+A); Example: For 90% setting of 630A, 630*Σ(0.3+0.2+0.4)=567A

■ Means "NOT IN USE"; ■ Means "ON" for the particular setting

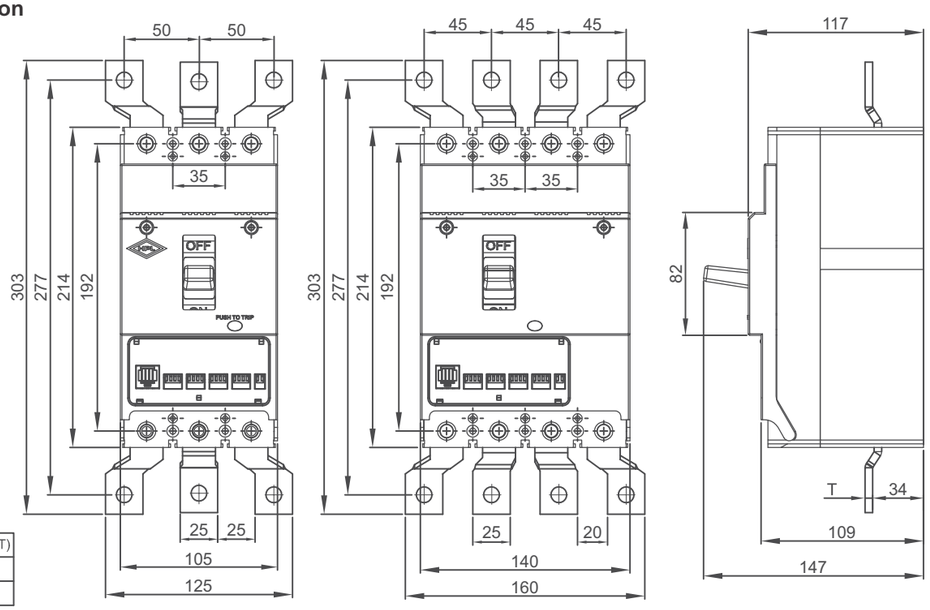
Settings for "STD_C" Short Time Delay Current & Settings for "STD_T" Short time delay Time		Settings for "GF_C" Ground fault Current & Settings for "GF_T" Ground fault delay Time (Available only in 4P)	
STD_C	STD_T	GF_C	GF_T
X 4x 4x	Inst X 0.01s	X 10%	X 1s
X 6x 6x	X 0.15 0.15s	X 20%	X 5s
8x X 8x	X 0.2 0.2s	X 30%	X 10s
X 10x 4x 6x	X 0.35 0.35s	X 40%	X 15s

NOTES:-Is=Ir*Σ(x); Example:- For 10x of 630A, 630*Σ(4+6);

X Means "NOT IN USE"; ■ Means "ON" for the particular setting

MCCB Dimensional Details - Frame 2 (mm)

3 & 4 Pole Version



Extended Terminal details

Rating	Thickness (T)
63~200A	4mm
250A	5mm

Note: All dimensions are in mm with ± 5% Tolerance.

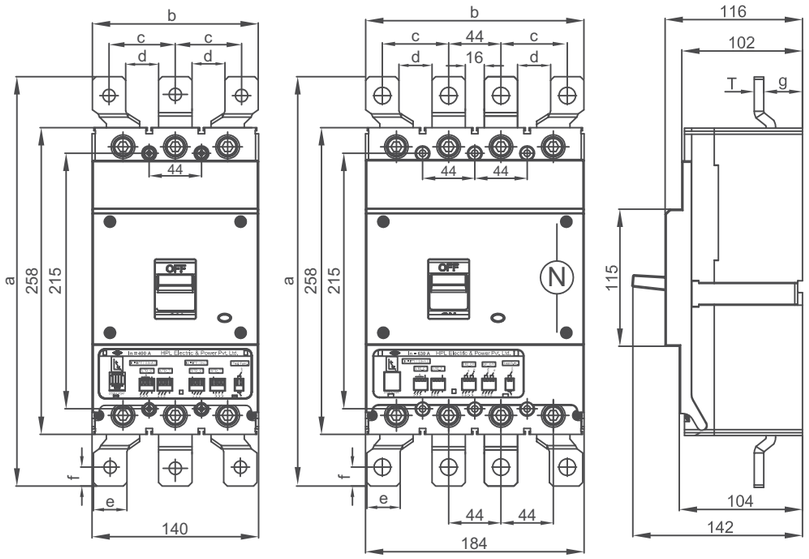
MCCB Dimensional Details - Frame 3 (mm)

3 & 4 Pole Version

	3-Pole		4-Pole	
	Dom.	Export	Dom.	Export
a	342	403	342	403
b	140	188	184	232
c	56	74	56	64
d	28	34	28	24
e	28	40	28	40
f	16	20	16	20
g	33	40	33	40

Extended Terminal details

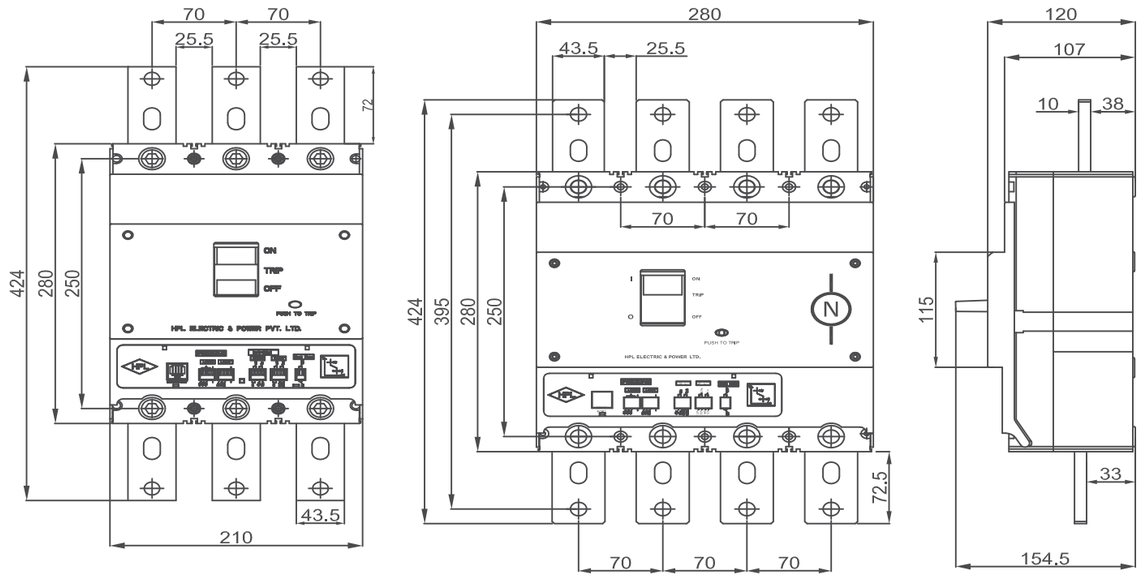
Rating	Thickness (T) for Domestic	Thickness (T) for Export
250A	4mm (Load Guard Type)	4mm
315A-400A	6mm (Load Guard Type)	6mm
500A	6mm	



Note: All dimensions are in mm with ± 5% Tolerance.

MCCB Dimensional Details - Frame 4 (mm)

3 & 4 Pole Version



Extended Terminal details

Rating	Thickness (T)	Quantity
500-630A	10mm	1 per pole
800A	8mm	2 per pole

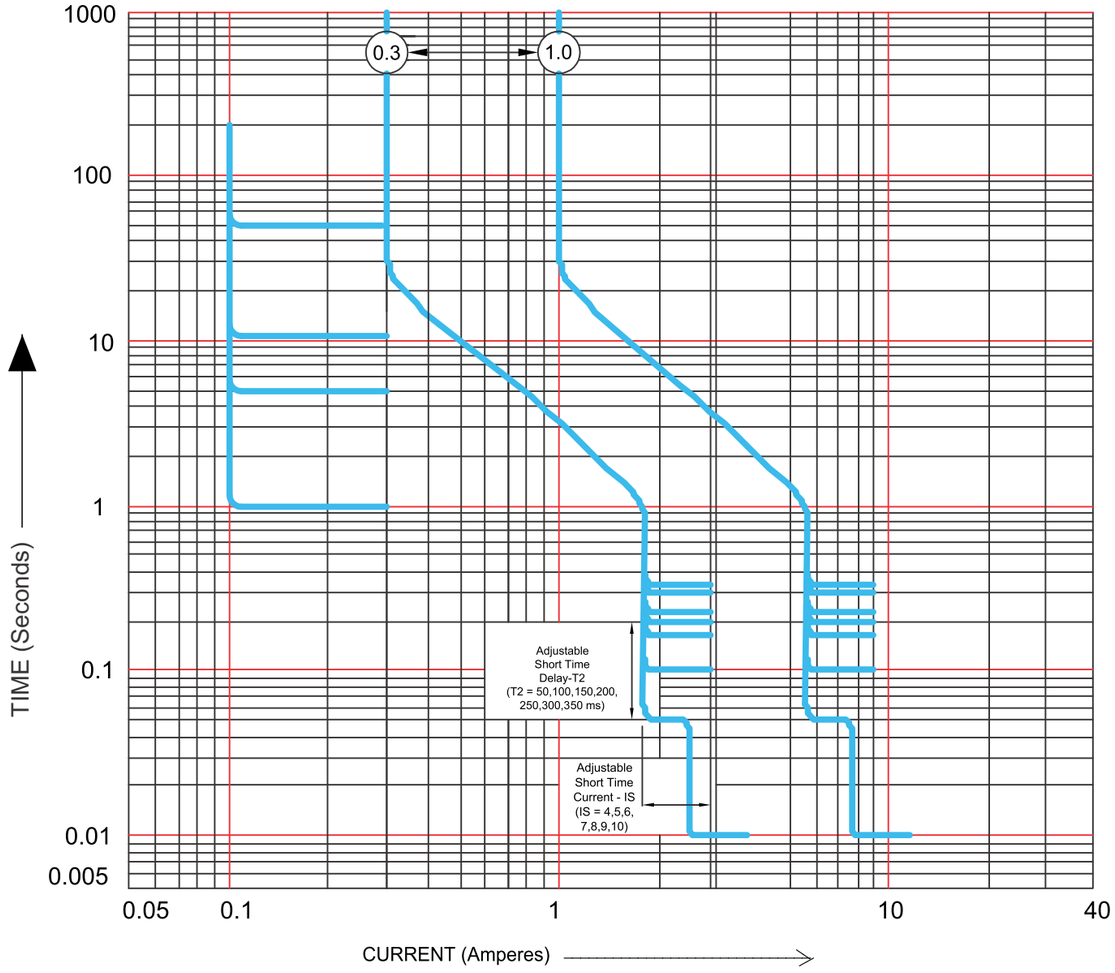
Note: All dimensions are in mm with ± 5% Tolerance.

Communication Facility

HPL make intelli PROTECT MCCBs are provided with communication facility where two way communication is achieved through RS 232/485 port. This communication facility enables the user to monitor the entire system from his control room on a PC or Laptop. Through this facility it is possible to monitor Current & Setting for LTD, STD, GF, Inst. functions of the electronic MCCB from PC/ Laptop as per user requirement.

The software required for this communication system is offered by **HPL as an optional feature.**

Time Current Characteristics Curve



Other HPL Industrial Products

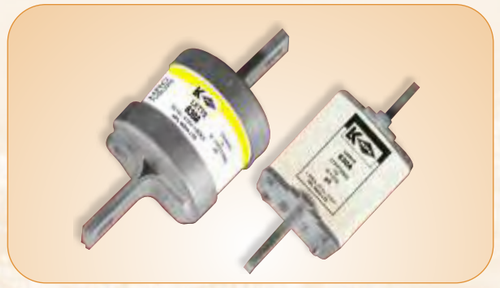
ACB

Controlgear

On Load Changeover Switch

TAB MCCB (TM Range)

Switch Disconnector Fuse



HRC Fuse Link

Notes

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