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CAT/Microprocessor MCCB/01-18

Resident Offices:

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Angul	Calicut	Jamshedpur	Mangalore	Rourkela	Trivandrum	
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Customer Care No. : 18004190198

www.hplindia.com

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, Jabli Himachal Pradesh and Guwahati having 5,00,000 sq. feet covered area to manufacture products confirming to International and India 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: 25A, 32A, 40A, 50A, 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

Notes: * On Request

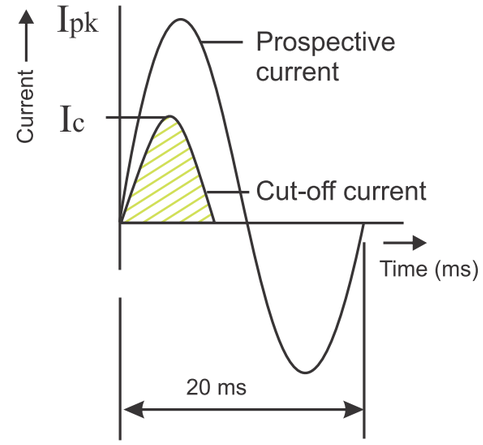
Working Principle

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 (I2t) 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.

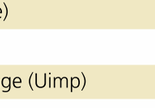
- **Auxiliary Switch**

  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

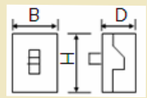
Parameters	Offered		
No. of poles	3/4		
Type	N	S	H
Rated Current (In A)	63A, 80A, 100A, 125A, 160A, 200A, 250A		
Rated Operational Voltage (Ue)	415V		
Rated Insulation Voltage (Ui)	800V		
Rated Impulse withstand voltage (Uimp)	8kV		
Rated Frequency	50/60 Hz		
Reference Ambient Calibration Temperature#	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 Ultimate S.C. Breaking Capacity (at 250 VDC) Icu in kA	20	20	20
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)	--		
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** 214 105 108	**4P** 214 140 108
Gross Weight*	3.25 Kg (3P) & 4.1 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

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 Ultimate S.C. Breaking Capacity (at 250 VDC) Icu in kA	20	25	35
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** 254.5 140 99	**4P** 254.5 184 99
Gross Weight*	7.75 Kg (3P) & 9.5 Kg (4P)		
Reference Standards	IS/IEC 60947-2		

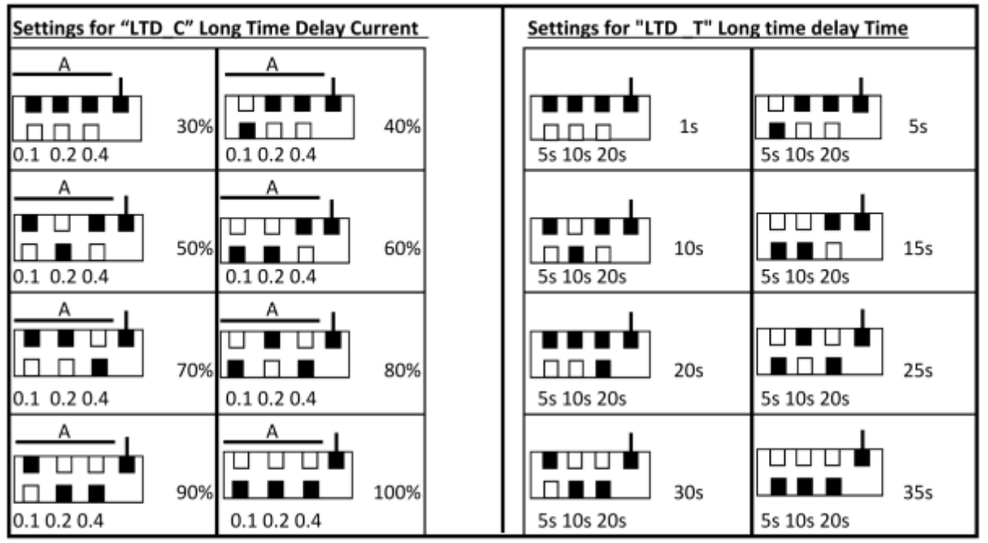
Notes :- 1. **However on demand, MCCBs can be provided with calibration done at higher temperature also.
2. As product improvement is a continuous process, HPL reserves the right to modify the above specification, in case if required.
3. Weight shown above is for the highest rating of MCCB in the Frame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

Electronic Trip Relay - Frame 2 & 3

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(0.3+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

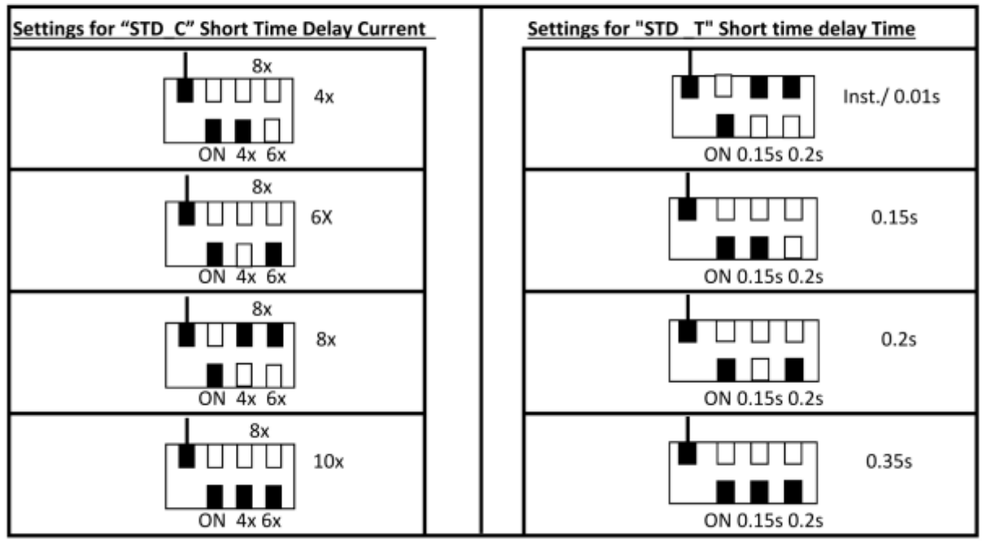
Operating Instructions - Frame 2&3

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



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



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

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

Operating Instructions - Frame 2&3

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

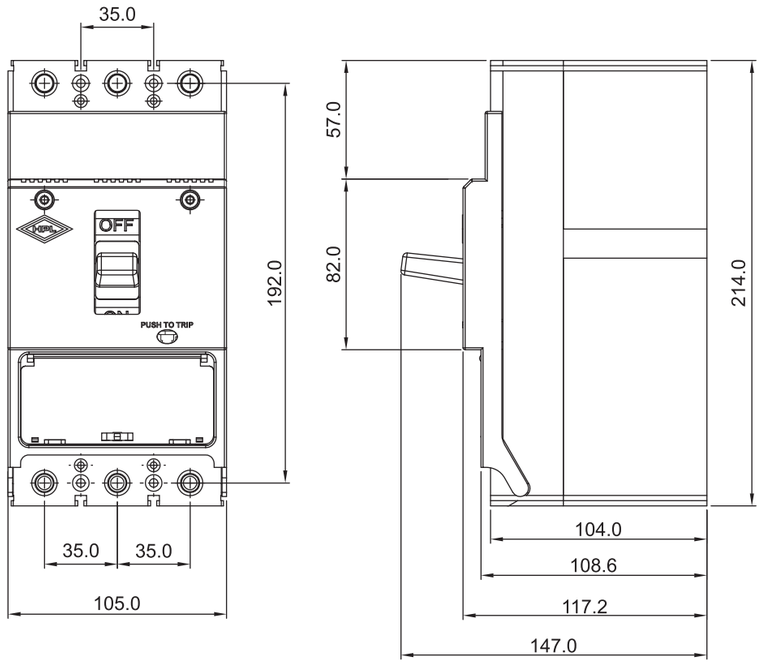
Settings for "STD_C" Short Time Delay Current & Settings for "STD_T" Short time delay Time		Settings for "GF_C" Ground fault Current & Settings for "GF_T" Ground fault delay Time (Available only in 4P)	
STD_C	STD_T	GF_C	GF_T
4x (4x)	Inst. 0.01s	10%	1s
6x (6x)	0.15s (0.15)	20%	5s
8x (8x)	0.2s (0.2)	30%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

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

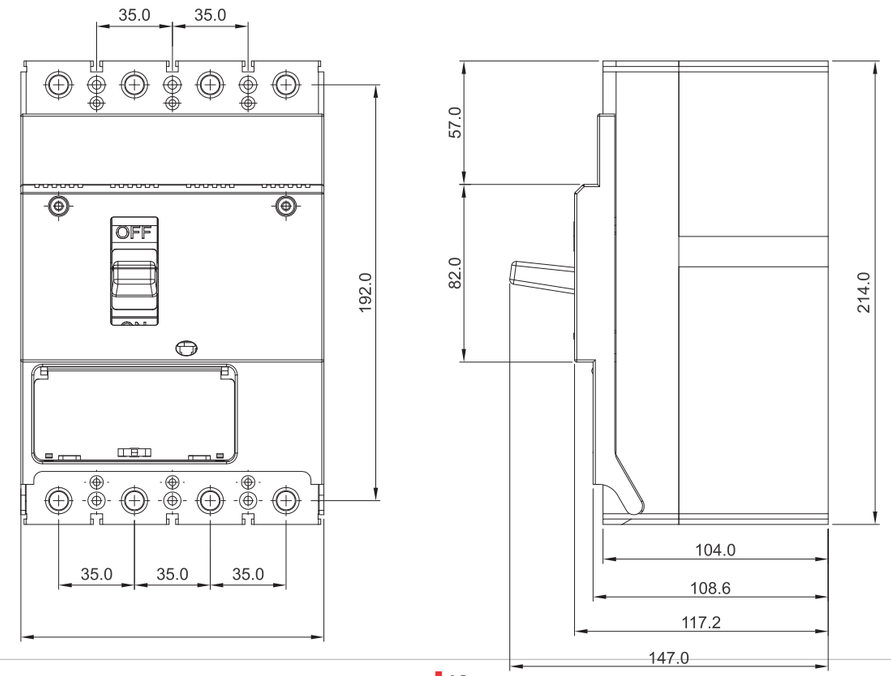
X Means "NOT IN USE"; Means "ON" for the particular setting

MCCB Dimensional Details - Frame 2 (mm)

3 Pole Version

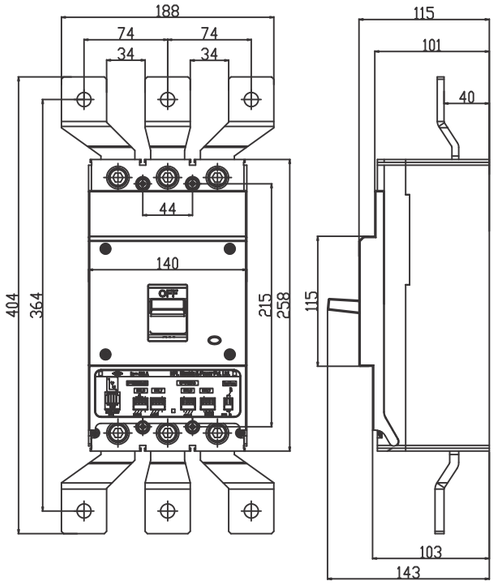


4 Pole Version

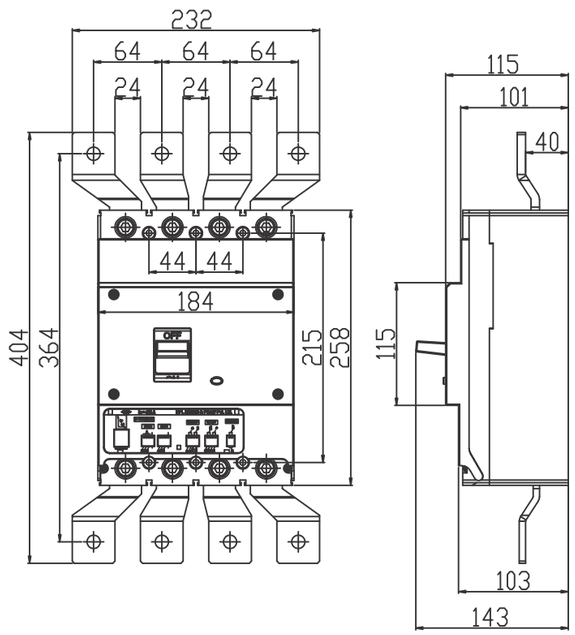


MCCB Dimensional Details - Frame 3 (mm)

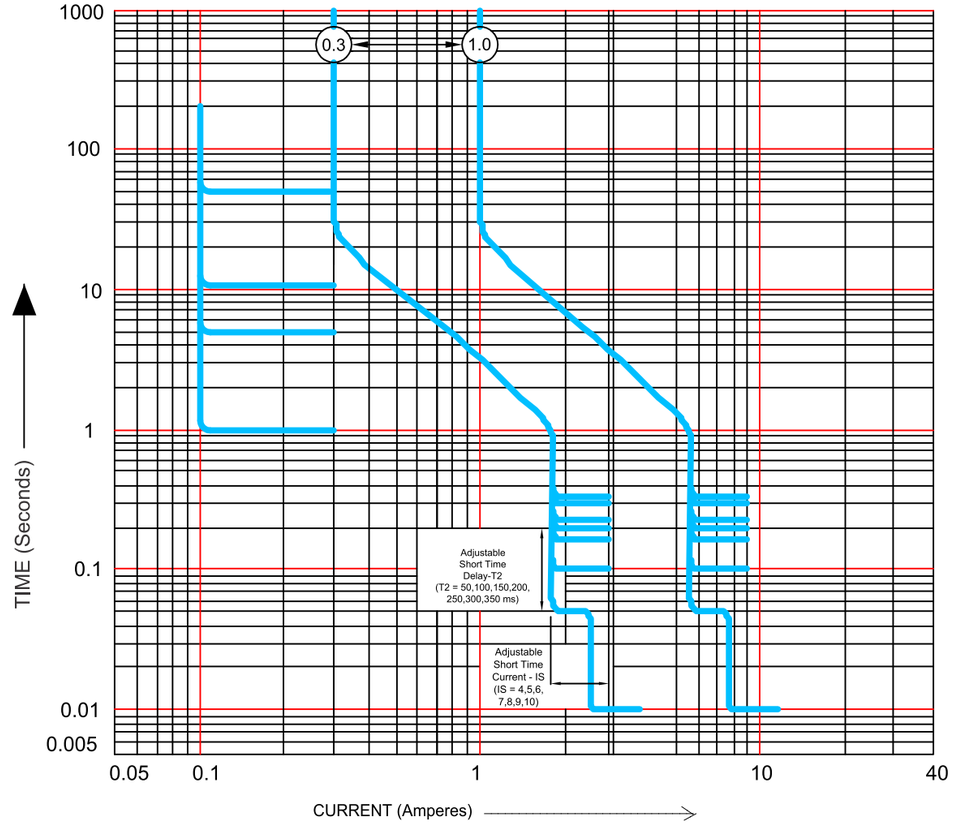
3 Pole Version



4 Pole Version



Time Current Characteristics Curve



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 control/modify the setting 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.**

Ordering Code - Frame 2

1	MCCB 63A, 3P, 25kA with microprocessor release	TAB2CX063AC3PMPR
2	MCCB 63A, 4P, 25kA with microprocessor release	TAB2CX063AC4PMPR
3	MCCB 80A, 3P, 25kA with microprocessor release	TAB2CX080AC3PMPR
4	MCCB 80A, 4P, 25kA with microprocessor release	TAB2CX080AC4PMPR
5	MCCB 100A, 3P, 25kA with microprocessor release	TAB2CX100AC3PMPR
6	MCCB 100A, 4P, 25kA with microprocessor release	TAB2CX100AC4PMPR
7	MCCB 125A, 3P, 25kA with microprocessor release	TAB2CX125AC3PMPR
8	MCCB 125A, 4P, 25kA with microprocessor release	TAB2CX125AC4PMPR
9	MCCB 160A, 3P, 25kA with microprocessor release	TAB2CX160AC3PMPR
10	MCCB 160A, 4P, 25kA with microprocessor release	TAB2CX160AC4PMPR
11	MCCB 200A, 3P, 25kA with microprocessor release	TAB2CX200AC3PMPR
12	MCCB 200A, 4P, 25kA with microprocessor release	TAB2CX200AC4PMPR
13	MCCB 250A, 3P, 25kA with microprocessor release	TAB2CX250AC3PMPR
14	MCCB 250A, 4P, 25kA with microprocessor release	TAB2CX250AC4PMPR
15	MCCB 25A, 3P, 36kA with microprocessor release	TAB2NX025AC3PMPR
16	MCCB 25A, 4P, 36kA with microprocessor release	TAB2NX025AC4PMPR
17	MCCB 32A, 3P, 36kA with microprocessor release	TAB2NX032AC3PMPR
18	MCCB 32A, 4P, 36kA with microprocessor release	TAB2NX032AC4PMPR
19	MCCB 40A, 3P, 36kA with microprocessor release	TAB2NX040AC3PMPR
20	MCCB 40A, 4P, 36kA with microprocessor release	TAB2NX040AC4PMPR
21	MCCB 50A, 3P, 36kA with microprocessor release	TAB2NX050AC3PMPR
22	MCCB 50A, 4P, 36kA with microprocessor release	TAB2NX050AC4PMPR
23	MCCB 63A, 3P, 36kA with microprocessor release	TAB2NX063AC3PMPR
24	MCCB 63A, 4P, 36kA with microprocessor release	TAB2NX063AC4PMPR
25	MCCB 80A, 3P, 36kA with microprocessor release	TAB2NX080AC3PMPR
26	MCCB 80A, 4P, 36kA with microprocessor release	TAB2NX080AC4PMPR
27	MCCB 100A, 3P, 36kA with microprocessor release	TAB2NX100AC3PMPR
28	MCCB 100A, 4P, 36kA with microprocessor release	TAB2NX100AC4PMPR
29	MCCB 125A, 3P, 36kA with microprocessor release	TAB2NX125AC3PMPR
30	MCCB 125A, 4P, 36kA with microprocessor release	TAB2NX125AC4PMPR
31	MCCB 160A, 3P, 36kA with microprocessor release	TAB2NX160AC3PMPR
32	MCCB 160A, 4P, 36kA with microprocessor release	TAB2NX160AC4PMPR
33	MCCB 200A, 3P, 36kA with microprocessor release	TAB2NX200AC3PMPR
34	MCCB 200A, 4P, 36kA with microprocessor release	TAB2NX200AC4PMPR
35	MCCB 250A, 3P, 36kA with microprocessor release	TAB2NX250AC3PMPR
36	MCCB 250A, 4P, 36kA with microprocessor release	TAB2NX250AC4PMPR
37	MCCB 25A, 3P, 50kA with microprocessor release	TAB2SX025AC3PMPR

Microprocessor MCCB
intelliTAB intelligent protection RANGE

38	MCCB 25A, 4P, 50kA with microprocessor release	TAB2SX025AC4PMPR
39	MCCB 32A, 3P, 50kA with microprocessor release	TAB2SX032AC3PMPR
40	MCCB 32A, 4P, 50kA with microprocessor release	TAB2SX032AC4PMPR
41	MCCB 40A, 3P, 50kA with microprocessor release	TAB2SX040AC3PMPR
42	MCCB 40A, 4P, 50kA with microprocessor release	TAB2SX040AC4PMPR
43	MCCB 50A, 3P, 50kA with microprocessor release	TAB2SX050AC3PMPR
44	MCCB 50A, 4P, 50kA with microprocessor release	TAB2SX050AC4PMPR
45	MCCB 63A, 3P, 50kA with microprocessor release	TAB2SX063AC3PMPR
46	MCCB 63A, 4P, 50kA with microprocessor release	TAB2SX063AC4PMPR
47	MCCB 80A, 3P, 50kA with microprocessor release	TAB2SX080AC3PMPR
48	MCCB 80A, 4P, 50kA with microprocessor release	TAB2SX080AC4PMPR
49	MCCB 100A, 3P, 50kA with microprocessor release	TAB2SX100AC3PMPR
50	MCCB 100A, 4P, 50kA with microprocessor release	TAB2SX100AC4PMPR
51	MCCB 125A, 3P, 50kA with microprocessor release	TAB2SX125AC3PMPR
52	MCCB 125A, 4P, 50kA with microprocessor release	TAB2SX125AC4PMPR
53	MCCB 160A, 3P, 50kA with microprocessor release	TAB2SX160AC3PMPR
54	MCCB 160A, 4P, 50kA with microprocessor release	TAB2SX160AC4PMPR
55	MCCB 200A, 3P, 50kA with microprocessor release	TAB2SX200AC3PMPR
56	MCCB 200A, 4P, 50kA with microprocessor release	TAB2SX200AC4PMPR
57	MCCB 250A, 3P, 50kA with microprocessor release	TAB2SX250AC3PMPR
58	MCCB 250A, 4P, 50kA with microprocessor release	TAB2SX250AC4PMPR

Ordering Code TAB - Frame 3

1	MCCB 250A, 3P, 36kA with microprocessor release	TAB3NX250AC3PMPR
2	MCCB 315A, 3P, 36kA with microprocessor release	TAB3NX315AC3PMPR
3	MCCB 400A, 3P, 36kA with microprocessor release	TAB3NX400AC3PMPR
4	MCCB 500A, 3P, 36kA with microprocessor release	TAB3NX500AC3PMPR
5	MCCB 630A, 3P, 36kA with microprocessor release	TAB3NX630AC3PMPR
6	MCCB 250A, 4P, 36kA with microprocessor release	TAB3NX250AC4PMPR
7	MCCB 315A, 4P, 36kA with microprocessor release	TAB3NX315AC4PMPR
8	MCCB 400A, 4P, 36kA with microprocessor release	TAB3NX400AC4PMPR
9	MCCB 500A, 4P, 36kA with microprocessor release	TAB3NX500AC4PMPR
10	MCCB 630A, 4P, 36kA with microprocessor release	TAB3NX630AC4PMPR
11	MCCB 250A, 3P, 50kA with microprocessor release	TAB3SY250AC3PMPR
12	MCCB 315A, 3P, 50kA with microprocessor release	TAB3SY315AC3PMPR
13	MCCB 400A, 3P, 50kA with microprocessor release	TAB3SY400AC3PMPR
14	MCCB 500A, 3P, 50kA with microprocessor release	TAB3SY500AC3PMPR
15	MCCB 630A, 3P, 50kA with microprocessor release	TAB3SY630AC3PMPR
16	MCCB 250A, 4P, 50kA with microprocessor release	TAB3SY250AC4PMPR
17	MCCB 315A, 4P, 50kA with microprocessor release	TAB3SY315AC4PMPR
18	MCCB 400A, 4P, 50kA with microprocessor release	TAB3SY400AC4PMPR
19	MCCB 500A, 4P, 50kA with microprocessor release	TAB3SY500AC4PMPR
20	MCCB 630A, 4P, 50kA with microprocessor release	TAB3SY630AC4PMPR
21	MCCB 250A, 3P, 65kA with microprocessor release	TAB3HZ250AC3PMPR
22	MCCB 315A, 3P, 65kA with microprocessor release	TAB3HZ315AC3PMPR
23	MCCB 400A, 3P, 65kA with microprocessor release	TAB3HZ400AC3PMPR
24	MCCB 500A, 3P, 65kA with microprocessor release	TAB3HZ500AC3PMPR
25	MCCB 630A, 3P, 65kA with microprocessor release	TAB3HZ630AC3PMPR
26	MCCB 250A, 4P, 65kA with microprocessor release	TAB3HZ250AC4PMPR
27	MCCB 315A, 4P, 65kA with microprocessor release	TAB3HZ315AC4PMPR
28	MCCB 400A, 4P, 65kA with microprocessor release	TAB3HZ400AC4PMPR
29	MCCB 500A, 4P, 65kA with microprocessor release	TAB3HZ500AC4PMPR
30	MCCB 630A, 4P, 65kA with microprocessor release	TAB3HZ630AC4PMPR

Microprocessor MCCB
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Other HPL Industrial Products

ACB

Controlgear

On Load Changeover Switch

TAB MCCB (TM Range)

Switch Disconnector Fuse

HRC Fuse Link