



Modular Devices - *Tripaper*[®]

Specially designed and developed for Residential and Commercial installations



LARSEN & TOUBRO

It's all about Imagineering

About us

Larsen & Toubro is a technology-driven USD 7 billion company that infuses engineering with imagination. The Company offers a wide range of advanced solutions in the field of Engineering, Construction, Electrical & Electronics, Machinery and Information Technology.

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

It offers a complete range of products including controlgear, powergear, motor starters, energy meters, wires and host of other accessories. The products conform to international standards, carry CE markings and are KEMA certified.



L&T introduces the Modular Devices - *Tripper*®

L&T's Tripper range of modular devices offer MCB, EL+MCB, Isolator & DB for final distribution of Electrical power.

L&T products are better known for reliability, functionality & ease of use.

Tripper modular devices spell world class

Tripper products conform to relevant global standards viz. IEC, EN, IS; they also have ISI & CE marking and KEMA CB certification.

KEMA

TEST REPORT
IEC / EN 60843-2
Low-voltage switchgear and controlgear
Part 2: Switchgear, disconnectors, switch-disconnectors and fuse combination units

Report Reference No.: 0000000000
Issued by (owner signature): N/A
Witnessed by (owner signature): Fred F. de Vries
Representative (owner signature): N/A
Approved by (owner signature): H.M. Verbeek
Date of issue: 20-09-2008

CB Testing Laboratory: KEMA-Quality B.V.
Address: Uutweg 10, 6160 AD Maastricht, The Netherlands
Testing location: N/A
Testing location address: N/A
Appointment's Name: L&T India Pvt. Ltd.
Address: L&T India Pvt. Ltd., Plot No. 1, Sector 10, Gurgaon, Haryana - 122002, India
Manufacturer's Name: L&T India Pvt. Ltd.
Address: L&T India Pvt. Ltd., Plot No. 1, Sector 10, Gurgaon, Haryana - 122002, India
Planting: L&T India Pvt. Ltd.
Address: L&T India Pvt. Ltd., Plot No. 1, Sector 10, Gurgaon, Haryana - 122002, India
Test specification: IEC 60843-2:2005/EN 60843-2:2005
Standard: IEC 60843-2:2005/EN 60843-2:2005
Test procedure: CB
Test Report Form No.: 0000000000
Test Originator: KEMA
Master 1 ID: 0000000000

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IEC **IECEE** **CB TEST CERTIFICATE** Ref. Certificate No.: 0000000000

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

Issued by: KEMA-Quality B.V.
Product: Low-voltage switchgear and controlgear
Appointment: L&T India Pvt. Ltd.
Manufacturer: L&T India Pvt. Ltd.
Planting: L&T India Pvt. Ltd.

Testing and approval information: IEC 60843-2:2005/EN 60843-2:2005
Test Report Form No.: 0000000000
Test Report Ref. No.: 0000000000

This CB Test Certificate is issued by the National Certification Body
KEMA-Quality B.V.
Address: Uutweg 10, 6160 AD Maastricht, The Netherlands
Signed by: P.J. de Vries
Date of issue: 20-09-2008

KEMA

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KEMA

IEC **IECEE** **TEST REPORT** Test Report issued under the responsibility of KEMA

EN 60843-2:2005 and IEC 60843-2:2005
Switchgear and controlgear for rated voltages up to and above 1000 V
Part 2: Switchgear, disconnectors, switch-disconnectors and fuse combination units

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Planting: L&T India Pvt. Ltd.
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ISI | IEC | CE | KEMA | EN

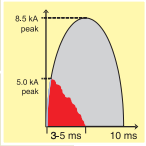


L&T Tripper - the assurance of absolute safety



Safety re-defined

Finger proof terminals eliminate chances of accidental contact with live part. You can install, operate and maintain Tripper with total confidence.



Energy limiting class -3

If fault occurs, the Rapid Arc Quenching mechanism in the Tripper operates and extinguishes the arc quickly (within 3 - 5 msec), ensuring lowest possible energy flow through the circuit. This minimizes risk of fire and maximizes life of your equipment.



Safety meets superior aesthetics

Ergonomically designed, profiled for superior cooling and manufactured with fire retardant material. Elegant Tripper is brought to you keeping in mind utmost user safety.



Key Benefits



True contact indication

Tripper range enhances safety through true contact indication even from a distance regardless of its mounting and knob position. Red and Green indication tags provided below the knob positively identify the electrical ON/OFF status, reflecting actual contact status.



Innovatively profiled breathing channels

When two or more poles are placed adjacent to each other, the breathing channels are so profiled that the air circulates around individual pole, resulting in cooler operation. Tripper range operates coolest year after year.



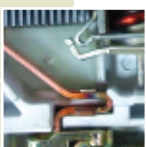
Large terminal size and dual termination

Tripper can easily accommodate cables of up to 35 sq. mm. The terminals are designed to facilitate termination of cable or bus bar or both at incomer side. Tripper terminals offer simple termination flexibly.



Two position DIN rail clip

Installation on a DIN rail is further simplified with a two-position DIN rail clip as a standard feature. Tripper range makes mounting on a standard DIN rail more convenient than most.



Non-welding contacts

Silver Graphite contact tips ensure higher life and maximum safety against contact welding due to its superior anti-welding properties, enhancing safety and life of the system.



Combihead screw

Tripper range of products provided with combihead screws, allow you to use standard as well as Philips screwdrivers. Tripper range addresses your undefined needs.



Range Overview

MCB

Miniature Circuit Breaker



4

EL+MCB

ELCB with Over Current Protection



6

Isolators



8

Distribution Boards - Tripbox



10

Technical Data

MCB

12

RCBO

14

Isolators

16

Distribution Boards - Tripbox

17

MCB

Miniature Circuit Breaker



True contact
indication



Terminals suitable
upto 35sq.mm.
Cable

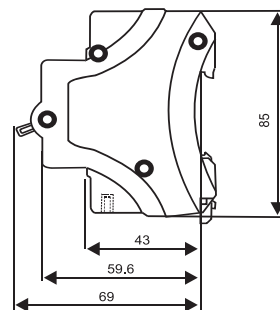
MCB is a vital protection device. It is essential in every electrical installation to safeguard both your life and valuable property against short circuit & overload.

- Conforms to IS 8828-1996 & EN/IEC 60898-1-2003.
- Breaking capacity of 6kA throughout the range.
- Available in B curve in SP & DP and C curve in SP, DP, TP & FP versions from 6A to 40A rating.
- Low watt loss - almost 50% of the values prescribed by IEC 60898-1-2003.
- Trip free mechanism.
- Design based on advanced current limiting hammer trip principle.
- No Line-Load bias.



Technical Specifications

Tripping characteristics	B (3In-5In), C (5In-10In)
Breaking capacity	6000A as per EN/IEC 60898
Voltage rating	240 / 415 V AC
Energy limiting class	3
Terminal capacity	upto 25A - 25sqmm more than 25A - 35sqmm
Degree of protection	IP20
Tropicalization	T2
Operating temp	-5°C to +55°C



Current Rating (In)	B-Curve Modules 1 Mod = 17.5mm	B-Curve CAT. No.	C-Curve Modules 1 Mod = 17.5mm	C-Curve CAT. No.
Single Pole (SP)				
6 A	1	BA10060B	1	BA10060C
10 A	1	BA10100B	1	BA10100C
16 A.	1	BA10160B	1	BA10160C
20 A	1	BA10200B	1	BA10200C
25 A	1	BA10250B	1	BA10250C
32 A	1	BA10320B	1	BA10320C
40 A	1	BA10400B	1	BA10400C



Double Pole (DP)				
6 A	2	BA20060B	2	BA20060C
10 A	2	BA20100B	2	BA20100C
16 A	2	BA20160B	2	BA20160C
20 A	2	BA20200B	2	BA20200C
25 A	2	BA20250B	2	BA20250C
32 A	2	BA20320B	2	BA20320C
40 A	2	BA20400B	2	BA20400C



Triple Pole (TP)				
6 A	3	-	3	BA30060C
10 A	3	-	3	BA30100C
16 A.	3	-	3	BA30160C
20 A	3	-	3	BA30200C
25 A	3	-	3	BA30250C
32 A	3	-	3	BA30320C
40 A	3	-	3	BA30400C



Four Pole (FP)				
6 A	-	-	4	BA40060C
10 A	-	-	4	BA40100C
16 A.	-	-	4	BA40160C
20 A	-	-	4	BA40200C
25 A	-	-	4	BA40250C
32 A	-	-	4	BA40320C
40 A	-	-	4	BA40400C



EL+MCB

ELCB with Over Current Protection



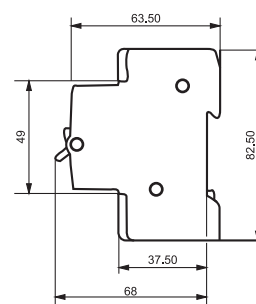
The ELCB+MCB combination in EL+MCB provides **3 in 1 protection** against Earth Leakage, Short Circuit and Overload.

- Conforms to IS 12640-1988 & EN / IEC 61009-1.
- Breaking capacity 6 kA (C - curve).
- Truly current operated - operation even at nominal 1 volt.
- Precise manufacturing to avoid nuisance tripping.
- Operation even in case of neutral failure (i.e.) it operates if leakage occurs even when incoming and outgoing neutral is snapped.
- Neutral advance mechanism.



Technical Specifications

Tripping characteristics	C (5In-10In)
Sensitivity	30mA, 100mA, 300mA
Voltage rating	240 / 415 V AC
Energy limiting class	3
Terminal capacity	25sqmm
Degree of protection	IP20
Tropicalization	T2
Operating temp	-5°C to +55°C



		Double Pole (SPN)		Four Pole (TPN)	
Sensitivity	Current Rating (In)	Modules 1 Mod = 17.5mm	CAT. No.	Modules 1 Mod = 17.5mm	CAT. No.

30mA	6	4	CB90001OOTO	6	CB90002OOTO
	10	4	CB90001OOVO	6	CB90002OOVO
	16	4	CB90001OOBO	6	CB90002OOBO
	20	4	CB90001OOCO	6	CB90002OOCO
	25	4	CB90001OODO	6	CB90002OODO
	32	4	CB90001OOEO	6	CB90002OOEO
	40	4	CB90001OOFO	6	CB90002OOFO
	63	4	CB90001OOHO	6	CB90002OOHO

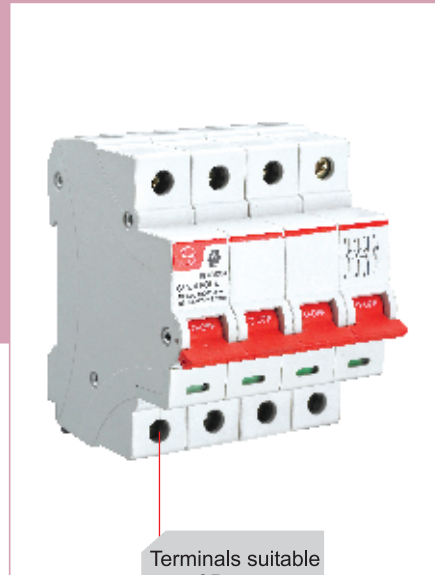
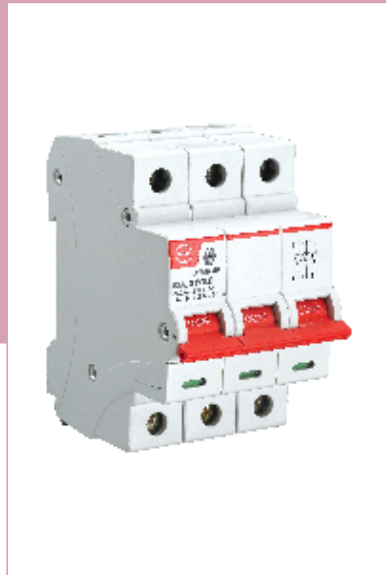


100mA	6	4	CB90003OOTO	6	CB90004OOTO
	10	4	CB90003OOVO	6	CB90004OOVO
	16	4	CB90003OOBO	6	CB90004OOBO
	20	4	CB90003OOCO	6	CB90004OOCO
	25	4	CB90003OODO	6	CB90004OODO
	32	4	CB90003OOEO	6	CB90004OOEO
	40	4	CB90003OOFO	6	CB90004OOFO
	63	4	CB90003OOHO	6	CB90004OOHO



300mA	6	4	CB90005OOTO	6	CB90006OOTO
	10	4	CB90005OOVO	6	CB90006OOVO
	16	4	CB90005OOBO	6	CB90006OOBO
	20	4	CB90005OOCO	6	CB90006OOCO
	25	4	CB90005OODO	6	CB90006OODO
	32	4	CB90005OOEO	6	CB90006OOEO
	40	4	CB90005OOFO	6	CB90006OOFO
	63	4	CB90005OOHO	6	CB90006OOHO

Isolators



Terminals suitable
upto 35sq.mm.
cable

Isolators are used in electrical installation to MAKE, CARRY and BREAK circuit current. The Isolator ensures that there will be no current at the load side even if impulse voltage appears when the Isolator is OFF.

- Conforms to IS 13947-3 & EN/IEC 60947-3.
- Suitable for AC22-A and AC22-B utilization category.
- Available in DP, TP and FP versions in 40A & 63A ratings.



Isolators

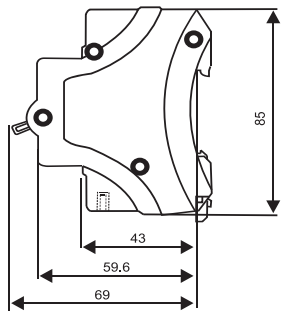
Technical Specifications

Voltage rating	240 / 415 V AC
Utilization category	AC22-A, AC22-B
Terminal capacity	35sqmm
Degree of protection	IP20
Tropicalization	T2
Operating temp	-5°C to +55°C

Current Rating (In)	Modules 1 Mod = 17.5mm	CAT. No.
Double Pole (DP)		
40	2	BE204000
63	2	BE206300

Triple Pole (TP)		
40	3	BE304000
63	3	BE306300

Four Pole (FP)		
40	4	BE404000
63	4	BE406300



Distribution Boards - Tripbox



Distribution boards provides safe & efficient distribution of electrical power.

- Available in aesthetically superior ivory colour to suit the interiors of buildings and can be supplied in different colour for bulk requirements.
- Distribution boards are suitable for flush and surface mounting.
- Ready to use DBs - provided with 100A phase busbar, earth/neutral bars and inter connecting wires as standard.
- Provided with removable top and bottom gland plates with adequate knockout for easy wiring.
- TPN DBs have provision to accommodate 6 MOD incomer.
- For bottom entry, Neutral bar can be shifted to bottom for comfortable wiring.

Distribution Boards - Tripbox

Technical Specifications

Range	SPN, TPN
Versions	Single door & Double door
Voltage rating	240 / 415 V AC
Mounting	Surface / Flush
Degree of protection	Single door - IP30 Double door - IP42
Operating temp	-5°C to +55°C

Provided with 100A copper busbar, wireset, earthbar, neutral bar, blanking plate, circuit identification labels as standard accessories

Description	Total no of modules 1 Mod = 17.5mm	CAT. No.
SPN DB - Single Door		
4 way	4	BH104SDB
6 way	6	BH106SDB
8 way	8	BH108SDB
12 way	12	BH112SDB
16 way	16	BH116SDB
SPN DB - Double Door		
4 way	4	BH104DDB
6 way	6	BH106DDB
8 way	8	BH108DDB
12 way	12	BH112DDB
16 way	16	BH116DDB
TPN DB - Single Door		
4 way	6+12	BH304SDB
6 way	6+18	BH306SDB
8 way	6+24	BH308SDB
12 way	6+36	BH312SDB
16 way	6+48	BH316SDB
TPN DB - Double Door		
4 way	6+12	BH304DDB
6 way	6+18	BH306DDB
8 way	6+24	BH308DDB
12 way	6+36	BH312DDB
16 way	6+48	BH316DDB



Technical Specifications

MCB (Miniature Circuit Breaker)

TECHNICAL DETAILS :

- Conform to IS 8828-1996 & EN / IEC 60898-1-2003.
- Breaking capacity of 6kA throughout the range.
- Terminals suitable upto 35 Sq.mm Cable.
- Low watt loss - almost 50% of the values prescribed by IEC 60898-1-2003.
- Quick arc quenching mechanism. Opening time of 3-5 msec in case of fault.
- ISI marked
- CE conformity and KEMA certified.
- Energy limiting class - 3.

Technical Specifications

Current Rating (In)	6, 10, 16, 20, 25, 32, 40
Rated Voltage @ 50 Hz (Un)	240 / 415V
Short Circuit Breaking Capacity	6kA according to EN / IEC - 60898-1-2003
Operational Life (Mechanical)	>1,00,000 operations
Operational Life (Electrical)	10,000 operations
Energy Limiting Class	3
Operating Temperature	-5°C to +55°C
Calibration Temp	30°C*
Termination	Suitable for both Busbar & Cable, suitable upto 35mm ² cable.
Impulse withstand voltage	6KV
Degree of Protection	IP20
Rated frequency	50/60 Hz
Vibration Resistance (In 'X' 'Y' 'Z' direction)	3g in frequency range of 10 to 55 Hz
Shock Resistance (In 'X' 'Y' 'Z' direction)	20g with short duration of 10ms
Mounting position	Horizontal / Vertical
Mounting	Snap fixing on standard profile 35 x 7.5mm DIN Rail as per EN 50022

* MCBs calibrated at 50°C can also be supplied as per order.

Watt Loss (in w)

6	10	16	20	25	32	40
1.36	1.8	1.8	2.49	3.52	3.4	3.75

Electro Thermal Characteristics

Type of MCB	No tripping current (for > 1 hour)	Tripping current (for < 1 hour)
'B' Curve	1.13 x In	1.45 x In
'C' Curve	1.13 x In	1.45 x In



MCB (Miniature Circuit Breaker)

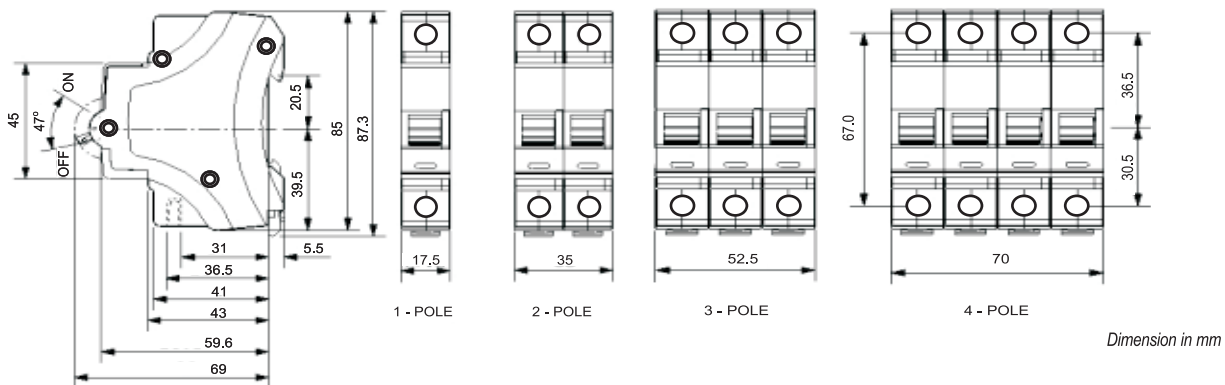
Electro Magnetic Characteristics

Based on the tripping characteristics, MCBs are available in 'B', and 'C' curve to suit different types of applications.

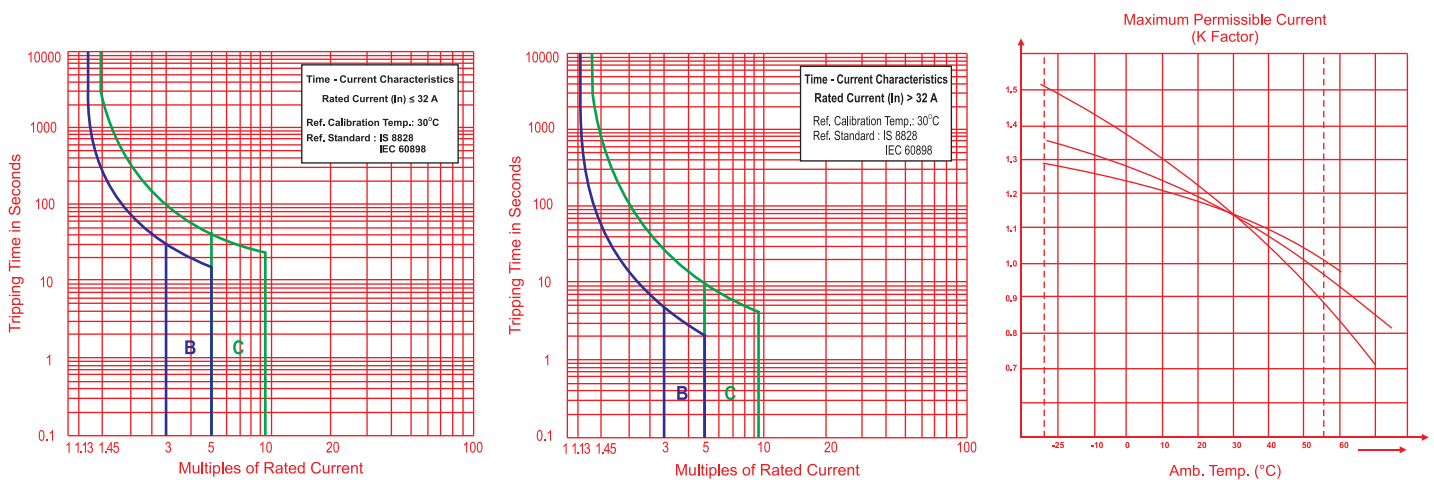
'B' Curve: for protection of electrical circuits with equipment that does not cause surge current (lighting and distribution circuits)
short circuit release is set to (3-5) I_n

'C' Curve: for protection of electrical circuits with equipment that causes surge current (Inductive loads and motor circuits)
short circuit release is set to (5-10) I_n

Overall Dimensions



i-t characteristics



Technical Specifications

EL+MCB (ELCB with Over Current Protection)

TECHNICAL DETAILS :

- Conforms to IS 12640-1988 & EN/IEC 61009 - 1.
- Breaking capacity 6 kA C- curve.
- CE Conformity.
- ISI marked

KEY FEATURES :

- Offers **3 in 1 Protection** - Earth Leakage, overload and short circuit.

- **Truly current operated** - operation even at nominal 1 volt.
- Avoids excessive metering due to leakage.
- Neutral advance mechanism - ensures 100% presence of neutral while making carrying & breaking operation of EL+MCB.
- Precise manufacturing to avoid nuisance tripping.
- Operation even in case of neutral failure (i.e.) it operates if leakage occurs even when incoming neutral is snapped.

Technical Specifications

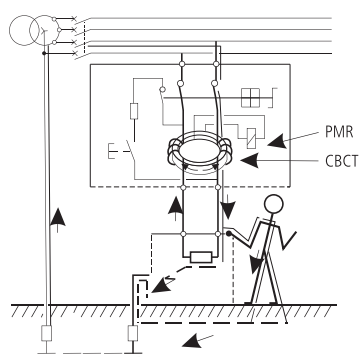
Current Rating (In)		6, 10, 16, 20, 25, 32, 40, 50, 63A					
Rated Sensitivity (IΔn)		30mA		100mA		300mA	
Application		Personal protection domestic installation		Limited Personal protection		Building fire	
Rated Voltage @ 50 Hz* (Un)		240V	415V	240V	415V	240V	415V
No. of Poles		SPN	TPN	SPN	TPN	SPN	TPN
Max. Earth resistance	10V	333Ω		100 Ω		33Ω	
	24V	800Ω		240 Ω		80Ω	
Degree of Protection		IP20					
Short circuit breaking capacity		6 kA					
Backup Fuse		80A quick break					
Max. Rating		63A delayed break					
Max. diameter of terminals		25mm²					
Operational life		> 10,000 operations (at rated current)					
Operating Temperature		-5°C to +55°C					

*other frequencies on request



EL+MCB (ELCB with Over Current Protection)

Working Principle



The human body's reaction to electric shock

As per ICE 479 - 1, electrical shocks passing through the human body, affect its internal nervous system. This causes the body to react to the passage of current through its as follows:

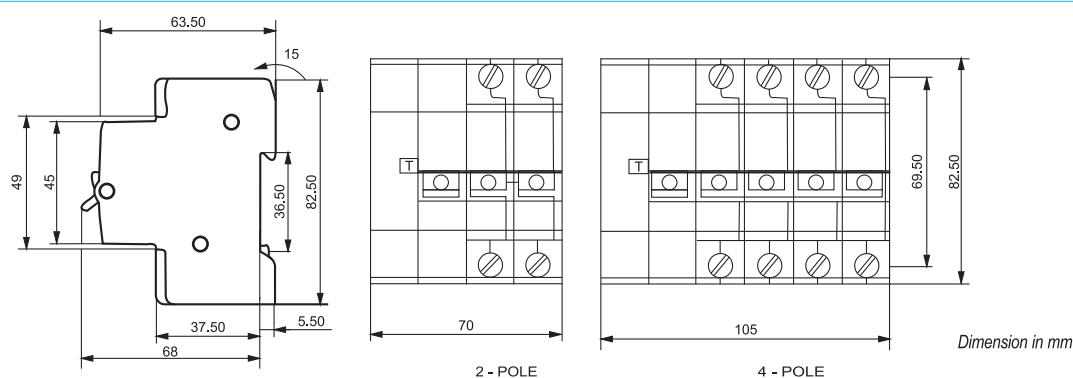
3mA : a tingling sensation is felt

10-15mA : muscle spasm and tightening occurs

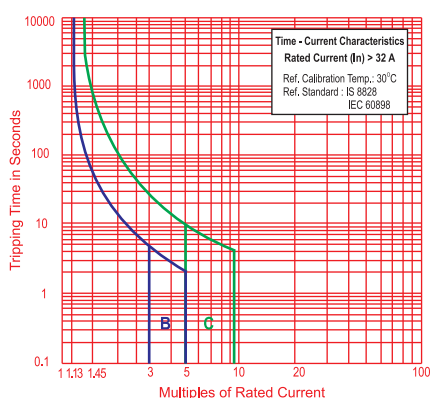
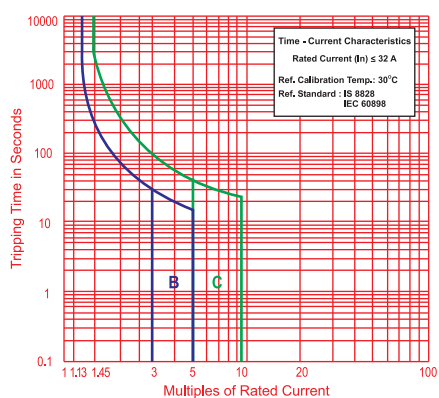
20-30mA : the heart may fibrillate; severe shock is felt.

>50mA : lethal. Fibrillation of the heart occurs.

Overall Dimensions



i-t characteristics



Technical Specifications



Isolators

TECHNICAL DETAILS :

- Conform to IS 13947-3 & EN/IEC 60947-3.
Suitable for AC22-A and AC22-B utilization category.
- CE conformity and KEMA certified.

KEY FEATURES :

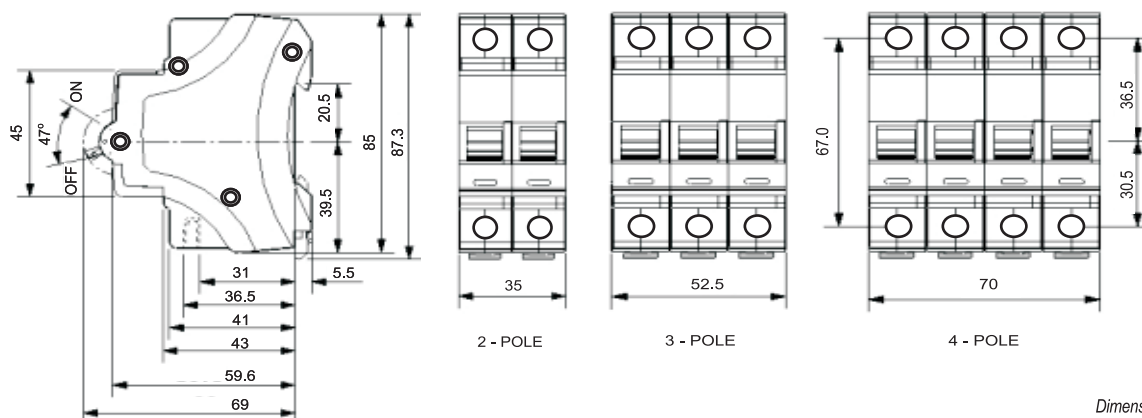
- Two position DIN rail clip makes easy mounting in distribution boards.

- Finger proof terminals - IP20.
- Combihead screws allow all types of screw drivers to be used.
- Body made of fire retarding material.
- True contact indication by a separate window with Red & Green colour band in addition to ON/OFF text printed on knob.
- Dual Termination (Cable & Busbar) possible at incomer side.
- Terminals suitable for 35 Sq.mm. Cable.
- Silver graphite contact tips ensure higher life and maximum safety against contact welding.

Technical Specifications

Operational Voltage (50Hz)	240 - 415V
Insulation voltage	500V
Impulse withstand voltage	4kV
Duty	Uninterrupted duty
Short Time withstand capacity	12 In, 1Sec
Short Circuit Making Capacity	> 1.2 kA
Utilization Category	AC 22-A & AC 22-B

Overall Dimensions



Dimension in mm

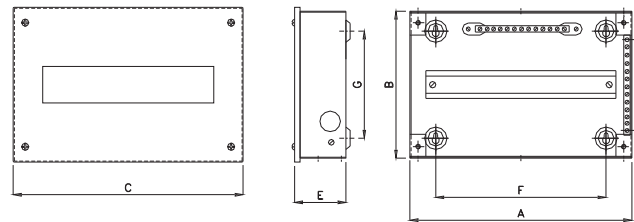


Distribution Boards - Tripbox

Overall Dimensions (all dim. are in mm)

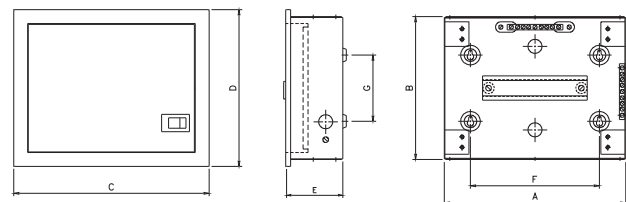
SPN Single Door DBs

Cat. ref.	A	B	C	D	E	F	G
BH104SDB	137	185	147	195	65	74	110
BH106SDB	173	185	183	195	65	110	110
BH108SDB	209	185	219	195	65	132	110
BH112SDB	280	185	290	195	65	203	110
BH116SDB	355	185	365	195	65	278	110



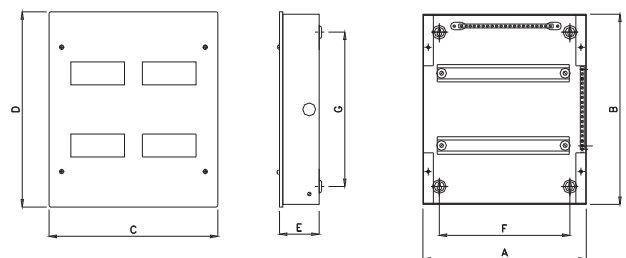
SPN Double Door DBs

Cat. ref.	A	B	C	D	E	F	G
BH104DDB	145	205	165	225	82	70	95
BH106DDB	180	205	200	225	82	105	95
BH108DDB	220	205	240	225	82	145	95
BH112DDB	295	205	315	225	82	220	95
BH116DDB	365	205	385	225	82	290	95



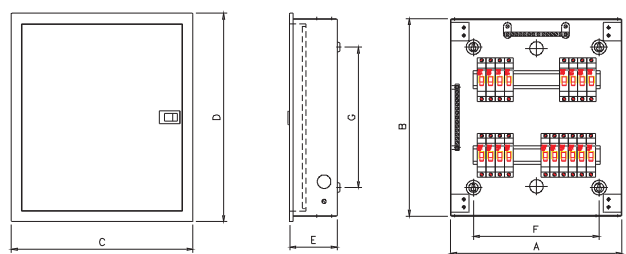
TPN Single Door DBs

Cat. ref.	A	B	C	D	E	F	G
BH304SDB	270	385	285	400	80	184	278
BH306SDB	327	385	342	400	80	241	278
BH308SDB	397	385	412	400	80	311	278
BH312SDB	550	385	565	400	80	464	278
BH316SDB	700	385	715	400	80	614	278



TPN Double Door DBs

Cat. ref.	A	B	C	D	E	F	G
BH304DDB	295	380	315	400	92	215	270
BH306DDB	360	380	380	400	92	280	270
BH308DDB	425	380	445	400	92	345	270
BH312DDB	565	380	585	400	92	485	270
BH316DDB	725	380	745	400	92	645	270



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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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