

**EXPERIENCE**



**A New Level of  
Modular Protection From L&T**



10 kA Modular Devices in L&T Range

# ABOUT L&T

Larsen & Toubro is a Technology, Engineering, Construction, Manufacturing and Services company with global operations.

It sustains leadership in its major lines of business through a customer-focused approach, an innovative culture and the ability to respond positively to challenging requirements.

L&T Electrical & Automation is India's largest switchgear company that manufactures and markets low and medium voltage switchgear products, electrical systems, energy meters and automation solutions.

Its products and solutions address the power distribution and control needs of industry, utility, infrastructure, buildings & homes and agriculture segments.

L&T promotes a culture of innovation and creation of intellectual property. Its products and solutions have been in use at many landmark installations of the country and continue to prove their high performance and reliability.





## L&T Modular Devices

L&T's range of modular devices offer MCB, RCCB, and Isolator for final distribution of electrical power.

L&T's products are known for reliability, functionality and ease of use.



L&T modular devices  
spell world class

L&T products conform to relevant global standards viz. IEC, EN. They also have BIS and CE marking, as well as CB and KEMA certification.





# L&T **EXORA**

L&T offers its new range of Modular Devices – **EXORA** – to ensure a safe environment around you. Protection and Control devices offered in this range provide safety at your home and at your workplace. Salient features of this range – Quick Break Mechanism, True Contact Position Indicator, Energy Limitation Class 3 – enhance safety of human lives and precious belongings.

Further, Low Watt loss of these products reduces the amount of electricity consumed and results in low electricity expense. Features such as Dual Termination and Two Position DIN Clip provide flexibility and ease of operation.



# MODULAR DEVICES

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## 1. Miniature Circuit Breakers (MCBs)



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## 2. Residual Current Circuit Breakers (RCCBs)



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## 3. Isolators



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# MCB (10kA)

## Miniature Circuit Breaker



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

## Features and Benefits

- Conforms to IS/IEC 60898-1, IEC 60947-2
- Characteristic Tripping curves B, C & D
- Energy limiting Class 3 allows low let-through energy in the system
- Unique patented design gives both label holder and true contact indication facility for individual poles
- Low watt loss – almost 50% of the values prescribed by IEC 60898-1– saves energy
- Trip free mechanism to ensure maximum safety
- Design based on advanced current limiting hammer trip mechanism ensures quick breaking
- No line load bias gives flexibility for incomer supply termination on either sides
- Dual termination on both sides of MCB
- Accessories – wide range of accessories like aux contact, trip alarm contact and shunt release
- DC MCB as per IEC 60947-2 : Rated Voltage: 130 V DC (for SP), 250 V DC (for DP)\*
- CE conformity

Terminals suitable  
up to 35 sq mm cable



2-position DIN-Rail clip  
– ease of installation

Dual Termination



True Contact  
Indication –  
enhanced safety



Label Holder

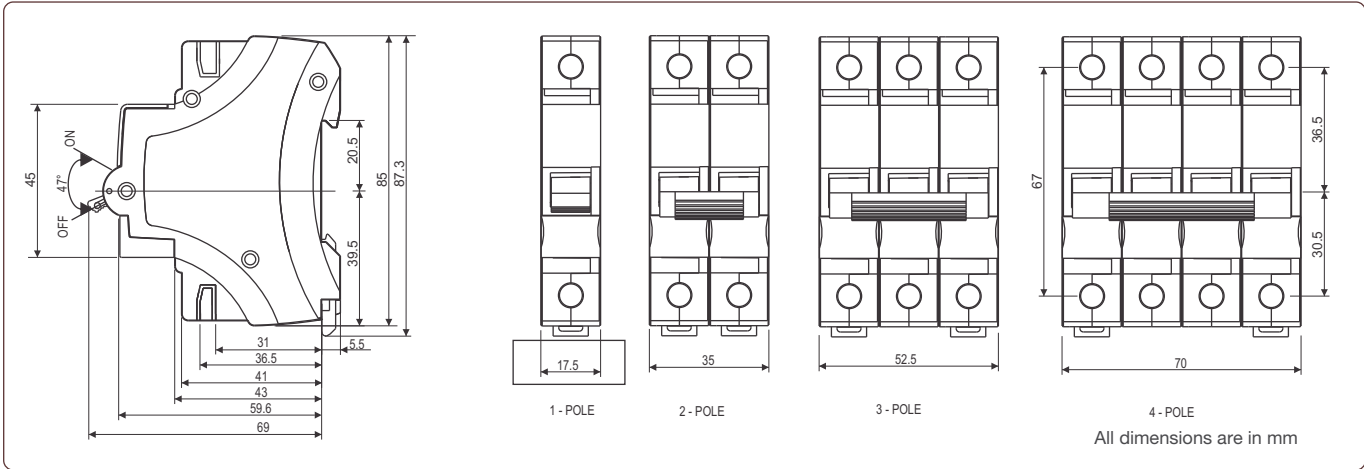


IP-20 Finger-proof terminals – eliminate  
chances of accidental contact

# Technical Specifications – MCB

Specification	IS / IEC 60898-1, IEC 60947-2	DC MCBs - IEC 60947-2
Current Rating	0.5 to 63A	
Tripping Characteristic	B, C and D curve	-
Breaking Capacity	IS/IEC 60898-1 : 10 kA IEC 60947-2 : 15kA (0.5A to 40A) (C Curve) 10kA (50A & 63A)	6kA (1 Break/Pole)
Rated Voltage	240 / 415 V AC	130V DC - Single Pole 250V DC - Double Pole
Frequency	50 to 60 Hz	-
Rated Impulse Voltage	4 kV	
Rated Insulation Voltage	500 V	
Minimum Operating Voltage	24 V AC	24 V DC
Degree of Protection	IP 20	
Applied Connection Torque	6 N m	
Operating Temperature	- 25° C to + 70° C	
Calibration Temperature	30° C	
Termination Capacity	35 mm <sup>2</sup> (Rigid) 25 mm <sup>2</sup> (Flexible)	
Mechanical Life (operating cycles)	>100,000	
Electrical Life (operating cycles)	20,000 (cos Ø = 0.85 to 0.9) 6A to 32A 10,000 (cos Ø = 0.85 to 0.9) for 40A to 63A	As per IEC 60947-2
Mounting Position	Horizontal/Vertical/Flat	
Mounting	Snap fixing on standard profile 35 X 7.5mm DIN-Rail as per EN 50022	

## Dimensions





## Single-Pole (SP)



Current Rating (In)	Modules 1 Mod= 17.5mm	B-Curve Cat. Nos.	C-Curve Cat. Nos.	D-Curve Cat. Nos.	DC MCBs Cat. Nos.
0.5A	1	-	BB10E50C	BB10E50D	BB10E5DC
1A	1	-	BB10010C	BB10010D	BB1001DC
2A	1	-	BB10020C	BB10020D	BB1002DC
3A	1	-	BB10030C	BB10030D	BB1003DC
4A	1	-	BB10040C	BB10040D	BB1004DC
6A	1	BB10060B	BB10060C	BB10060D	BB1006DC
10A	1	BB10100B	BB10100C	BB10100D	BB1010DC
16A	1	BB10160B	BB10160C	BB10160D	BB1016DC
20A	1	BB10200B	BB10200C	BB10200D	BB1020DC
25A	1	BB10250B	BB10250C	BB10250D	BB1025DC
32A	1	BB10320B	BB10320C	BB10320D	BB1032DC
40A	1	BB10400B	BB10400C	BB10400D	BB1040DC
50A	1	BB10500B	BB10500C	BB10500D	BB1050DC
63A	1	BB10630B	BB10630C	BB10630D	BB1063DC

## Double-Pole (DP)



Current Rating (In)	Modules 1 Mod= 17.5mm	B-Curve Cat. Nos.	C-Curve Cat. Nos.	D-Curve Cat. Nos.	DC MCBs Cat. Nos.
0.5A	2	-	BB20E50C	BB20E50D	BB20E5DC
1A	2	-	BB20010C	BB20010D	BB2001DC
2A	2	-	BB20020C	BB20020D	BB2002DC
3A	2	-	BB20030C	BB20030D	BB2003DC
4A	2	-	BB20040C	BB20040D	BB2004DC
6A	2	BB20060B	BB20060C	BB20060D	BB2006DC
10A	2	BB20100B	BB20100C	BB20100D	BB2010DC
16A	2	BB20160B	BB20160C	BB20160D	BB2016DC
20A	2	BB20200B	BB20200C	BB20200D	BB2020DC
25A	2	BB20250B	BB20250C	BB20250D	BB2025DC
32A	2	BB20320B	BB20320C	BB20320D	BB2032DC
40A	2	BB20400B	BB20400C	BB20400D	BB2040DC
50A	2	BB20500B	BB20500C	BB20500D	BB2050DC
63A	2	BB20630B	BB20630C	BB20630D	BB2063DC

## Three-Pole (TP)



Current Rating (In)	Modules 1 Mod= 17.5mm	B-Curve Cat. Nos.	C-Curve Cat. Nos.	D-Curve Cat. Nos.
0.5A	3	-	BB30E50C	BB30E50D
1A	3	-	BB30010C	BB30010D
2A	3	-	BB30020C	BB30020D
3A	3	-	BB30030C	BB30030D
4A	3	-	BB30040C	BB30040D
6A	3	BB30060B	BB30060C	BB30060D
10A	3	BB30100B	BB30100C	BB30100D
16A	3	BB30160B	BB30160C	BB30160D
20A	3	BB30200B	BB30200C	BB30200D
25A	3	BB30250B	BB30250C	BB30250D
32A	3	BB30320B	BB30320C	BB30320D
40A	3	BB30400B	BB30400C	BB30400D
50A	3	BB30500B	BB30500C	BB30500D
63A	3	BB30630B	BB30630C	BB30630D

## Four-Pole (FP)



Current Rating (In)	Modules 1 Mod= 17.5mm	B-Curve Cat. Nos.	C-Curve Cat. Nos.	D-Curve Cat. Nos.
0.5A	4	-	BB40E50C	BB40E50D
1A	4	-	BB40010C	BB40010D
2A	4	-	BB40020C	BB40020D
3A	4	-	BB40030C	BB40030D
4A	4	-	BB40040C	BB40040D
6A	4	BB40060B	BB40060C	BB40060D
10A	4	BB40100B	BB40100C	BB40100D
16A	4	BB40160B	BB40160C	BB40160D
20A	4	BB40200B	BB40200C	BB40200D
25A	4	BB40250B	BB40250C	BB40250D
32A	4	BB40320B	BB40320C	BB40320D
40A	4	BB40400B	BB40400C	BB40400D
50A	4	BB40500B	BB40500C	BB40500D
63A	4	BB40630B	BB40630C	BB40630D

# Auxiliaries and Accessories

## 10 kA MCBs



L&T MCBs can be fitted with a wide range of accessories like the auxiliary contact, shunt release and trip alarm contact.

### Auxiliary & Accessories for 10kA MCBs

Description	Cat. Nos.
Auxiliary Contact – 240V AC, 6A (1NO+1NC), 1/2 module	BZA11006
Shunt Release – 240V AC, 1 module	BZS00240
Trip Alarm Contact - 240V AC, 6A (1NO + 1NC), 1/2 module	BZT11006