

# Miniature Circuit Breakers & Residual Current Devices

(L-Series)

The best solution for perfect safety environment, customer satisfaction through best quality and service.

## User-Friendly for installation

Streamline your distribution board installation with unified terminal height and handle position across all MCB products for ultimate convenience



## Enhanced insulation by insulation barrier

Boost insulation performance with the option to add an insulation barrier

**Streamlined Design & Compact Size**

LA100H 100A MCB is 18mm wide (based on 1P), 9mm smaller than the existing product

LB40N/LB40H RCBO is 36mm wide (based on 1P+N), 18mm smaller than MCB+RCD combined product



**User-friendly for verification**  
"Easily verify the circuit breaker's on/off position with the built-in indicator"



**High performance, same size breaker**  
The breaker achieves high performance ratings of 4.5kA, 6kA, 10kA, and 15kA while maintaining the same compact size."



**Extensive Product Range**  
Choose from a range of earth leakage protection models, customized to suit your specific applications  
- AC type, A type, B type and time delay (AC/A type)

# Product Appearance

## MCB



## RCBO / RCCB



## MCB / RCBO / RCCB

<b>LA</b>	<b>63</b>	<b>H</b>	<b>-</b>	<b>1P</b>	<b>B</b>	<b>63</b>
Type	AF	Breaking Capacity	Special function	Pole	Trip Curve	Rated Current
LS MCB	32	E 4.5kA	Blank Single terminal	1P	B	1, 2, 3, 4, 6, 10,
	40	N 6kA	d Dual terminal	1P+N	C	13, 16, 20, 25,
	63	H 10kA	DC DC	2P	D	32, 40, 50, 63,
	100	L 15kA	P Plug-in	3P		80, 100, 125A
	125	D Switch disconnectors		3P+N		
				4P		

<b>LB</b>	<b>63</b>	<b>N</b>	<b>-</b>	<b>1P+N</b>	<b>B</b>	<b>63</b>	<b>30mA</b>	<b>AC type</b>
Type	AF	Breaking Capacity	Special function	Pole	Trip Curve	Rated Current	Earth leakage sensitivity	Earth leakage protection class
LS RCBO	32	N 6kA	Blank Single terminal	1P+N	B	1, 2, 3, 4, 6, 10,	10mA	AC type
	40	H 10kA	d Dual terminal	2P	C	13, 16, 20, 25,	30mA	A type
	50		B B-type	3P+N	D	32, 40, 50, 63,	50mA	B type
	63		N 18mm 1P+N	4P		80, 100, 125A	100mA	
			W With wire				300mA	
			4 Only 4Pole					

<b>LC</b>	<b>63</b>	<b>N</b>	<b>-</b>	<b>1P+N</b>	<b>63</b>	<b>30mA</b>	<b>AC type</b>
Type	AF	Breaking Capacity(Inc)	Special function	Pole	Rated Current	Earth leakage sensitivity	Earth leakage protection class
LS RCCB	63	N 6kA	Blank Single terminal	1P+N	16, 25, 32, 40,	30mA	AC type
	80	H 10kA	d Dual terminal	3P+N	50, 63, 80, 100A	100mA	A type
	100		B B-type			300mA	AC(S) type
			R N phase on the right side				A(S) type
							B type

<b>LA/LB/LC</b>	<b>AX</b>
Type	Product
L-Series	AX Auxiliary contact PB Plug-in Base
	AL Alarm contact BB Busbar
	U/OVT UVT/OVT EC End cap
	SHT Shunt BC Busbar cap
	MOP Motor Operator HL Handle lock

# Product Selection Guide

## MCB, Switch-Disconnecter



Type	MCB(Miniature circuit breaker)				
	LA40E	LA40N	LA63E	LA63N	LA63H
Protection	Overload/short circuit	Overload/short circuit	Overload/short circuit	Overload/short circuit	Overload/short circuit
Standards	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1/ 60947-2	IEC/EN 60898-1/ 60947-2
Rated voltage (Ue)	240VAC	240VAC	240/415VAC	240/415VAC, 70/125VDC	240/415VAC, 70/125VDC
Poles	1P+N	1P+N	1P, 1P+N, 2P, 3P, 3P+N, 4P	1P, 1P+N, 2P, 3P, 3P+N, 4P	1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated current (In)	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40A	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40A	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Breaking capacity	4.5kA	6kA	4.5kA	6kA	10kA
Isolation function	Yes	Yes	Yes	Yes	Yes
Tripping curve	B, C, D	B, C, D	B, C, D	B, C, D	B, C, D
Electrical durability	4000	4000	10000	10000	10000
Mechanical durability	10000	10000	20000	20000	20000
Terminal capacity	Cable up to 16mm <sup>2</sup>	Cable up to 16mm <sup>2</sup>	Cable up to 25mm <sup>2</sup>	Cable up to 25mm <sup>2</sup>	Cable up to 25mm <sup>2</sup>
Accessory	-	-	AX, AL, SHT, U/OVT	AX, AL, SHT, U/OVT	AX, AL, SHT, U/OVT
Catalogue page	10P, 69P, 71P	10P, 69P, 71P	12P, 69P, 71P	12P, 69P, 71P	12P, 69P, 71P

## RCBO, RCCB



Type	RCBO(Residual Current Breaker with Overcurrent protection)				
	LB40NN	LB40N	LB40H	LB40NB	LB63N
Protection	Leakage current/ Overload/Short circuit	Leakage current/ Overload/Short circuit	Leakage current/ Overload/Short circuit	Leakage current/ Overload/Short circuit	Leakage current/ Overload/Short circuit
Standards	IEC/EN 61009-1	IEC/EN 61009-1	IEC/EN 61009-1	IEC/EN 61009-1, 62423	IEC/EN 61009-1
Operation type	AC, A	AC, A	AC, A	B	AC, A
Rated voltage (Ue)	240VAC	240/415VAC	240/415VAC	240/415VAC	240VAC
Poles	1P+N	1P+N, 3P+N	1P+N, 3P+N	1P+N, 3P+N	1P+N
Rated current (In)	6, 10, 13, 16, 20, 25, 32, 40A	6, 10, 13, 16, 20, 25, 32, 40A	6, 10, 13, 16, 20, 25, 32, 40A	6, 10, 13, 16, 20, 25, 32, 40A	6, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Breaking capacity	6kA	6kA	10kA	6kA	6kA
Isolation function	Yes	Yes	Yes	Yes	Yes
Tripping curve	B, C	B, C, D	B, C, D	B, C, D	B, C, D
Sensitivity, mA	10, 30, 100, 300	30, 100, 300	30, 100, 300	30, 100, 300	30, 50, 100, 300
Terminal capacity	Cable up to 16mm <sup>2</sup>	Cable up to 16mm <sup>2</sup>	Cable up to 16mm <sup>2</sup>	Cable up to 16mm <sup>2</sup>	Cable up to 25mm <sup>2</sup>
Accessory	-	AX, AL, SHT, U/OVT	AX, AL, SHT, U/OVT	AX, AL, SHT, U/OVT	AX, AL, SHT, U/OVT
Catalogue page	33P, 70P, 72P	35P, 70P, 72P	35P, 70P, 72P	40P, 70P, 72P	42P, 70P, 72P

\* LC63N's neutral is on the left of RCCB and LC63NR's neutral is on the right of RCCB \* LC100H's neutral is on the left of RCCB and LC100HR's neutral is on the right of RCCB

\*\* AC(S), A(S) is Earth-leakage protection time delayed product