

## MCB/RCCB/RCBO/DC MCB

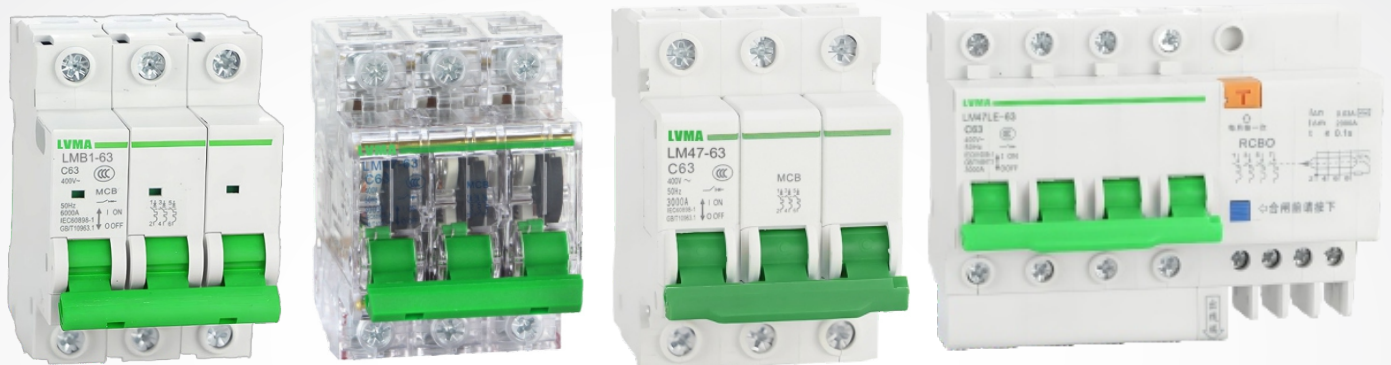
Miniature Circuit Breaker

Residual Current Circuit Breaker With Overcurrent Protection

Isolator switch

DC Miniature Circuit Breaker

Product Selection Guide



# LM47-63 4.5kA

**LVMA**

Miniature Circuit Breaker

IEC60898-1



## Technical Data

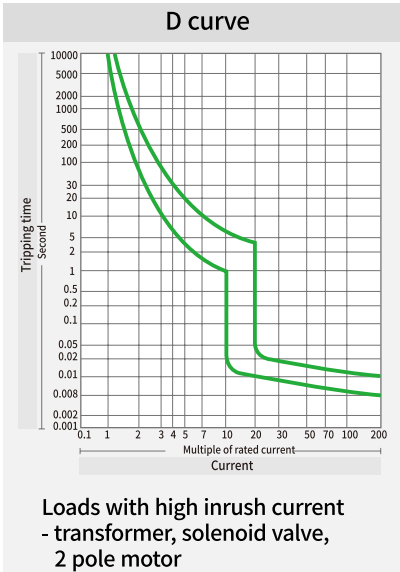
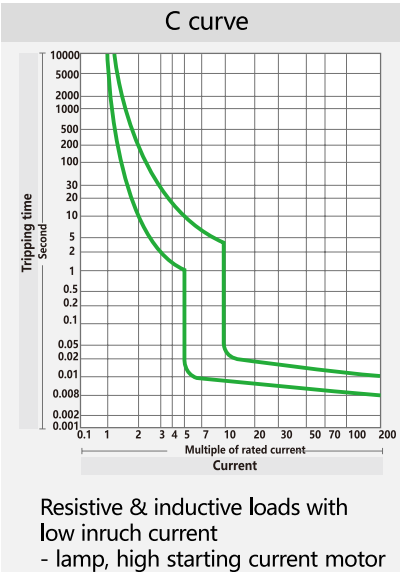
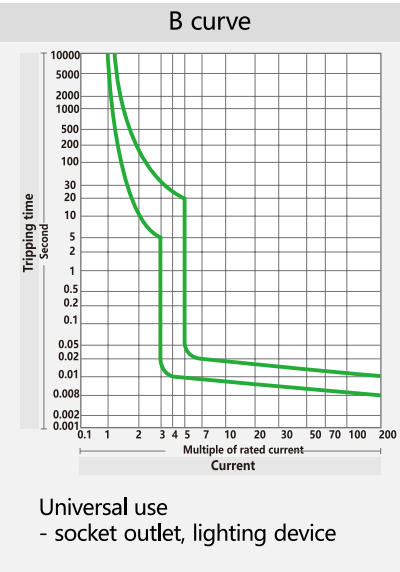
Protection	Over current and short circuit
Type of trip	Thermo-magnetic
No.of poles	1P,2P,3P,4P
Rated voltage (Ue)	230/400V~
Rated currents (In)	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse withstand voltage(1.2/50) (Uimp)	4,000V
Dielectric test voltage at Ind. Freq.for 1 min	2kV
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B:(3-5) x In, C:(5-10) x In, D:(10-20) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Ambient temperature	-5°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar
Max.terminal size for cable	25mm <sup>2</sup>
Max.tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Connection	From top and bottom

LM47-63 4.5kA

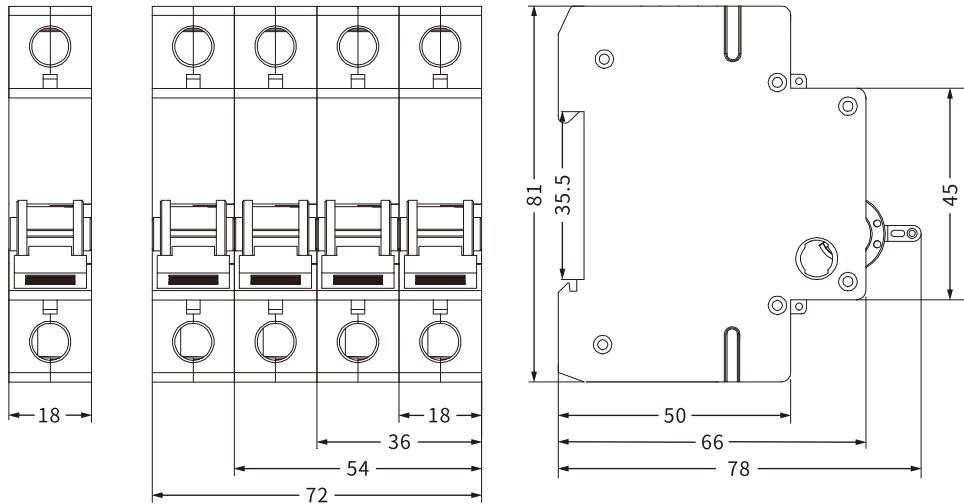
Miniature Circuit Breaker ----- IEC60898-1

Tripping Characteristic

Curve	Rated current	Condition						
		Thermal release				Magnetic release		
		Non-tripping	Tripping	Non-tripping	Tripping time	Holding current	Tripping current	Tripping time
B	1-63A	$1.13 \times I_n$		$\leq 1h$		$3 \times I_n$		$\geq 0.1$
			$1.45 \times I_n$		$< 1h$		$5 \times I_n$	$< 0.1$
C	1-63A	$1.13 \times I_n$		$\leq 1h$		$5 \times I_n$		$\geq 0.1$
			$1.45 \times I_n$		$< 1h$		$10 \times I_n$	$< 0.1$
D	1-63A	$1.13 \times I_n$		$\leq 1h$		$10 \times I_n$		$\geq 0.1$
			$1.45 \times I_n$		$< 1h$		$20 \times I_n$	$< 0.1$



Overall and Installation Dimension(mm)



## LMB1-63 6kA

Miniature Circuit Breaker

IEC60898-1



Technical Data	
Rated current	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A
Number of poles	1P,2P,3P,4P
Rated voltage	230/400V
Insulation voltage	500V
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Energy limiting class	3
Rated impulse withstand voltage (1.5/50)	4,000V
Dielectric test voltage at Ind. Freq. for 1min	2kV
Pollution level	2
Thermal-magnetic release characteristics	B,C,D
Electrical life	8,000 Cycles
Mechanical life	20,000 Cycles
Contact position indicator	Yes
Protection level	IP20
Setting reference temperature for thermal element	30°C
Ambient temperature (daily mean $\leq 35^{\circ}\text{C}$ )	-5°C~+40°C
Storage temperature	-25°C~+70°C
Terminal connection type	Cable/Pin-type Busbar/U-type Busbar
Cable terminal dimensions (top to bottom)	25mm 18-3AWG
Pin-type busbar dimensions (top to bottom)	25mm 18-3AWG
Tightening torque	2.5nm 22In-lbs
Installation	On 35mm DIN Rail
Connection	Top to Bottom
Auxiliary contact	OF
Alarm contact	FB
Shunt release+Auxiliary	MX+OF
Over-voltage/Under-voltage release	MN+MV



# LMB1-63 6kA

LVMA

Miniature Circuit Breaker

IEC60898-1

## MCB Characteristics

Test	Type	Test current	Initial state	Tripping or non-tripping time limit	Expected results	Remark
a	B,C,D	$1.13I_n$	Cold state <sup>a</sup>	$t \leq 1 \text{ h}$ (For $I_n \leq 63\text{A}$ ) $t \leq 2 \text{ h}$ (For $I_n > 63\text{A}$ )	Non-tripping	
b		$1.45I_n$	Subsequent test <sup>a</sup>	$t < 1 \text{ h}$ (For $I_n \leq 63\text{A}$ ) $t < 2 \text{ h}$ (For $I_n > 63\text{A}$ )	Tripping	The current increases steadily within 5s
c		$2.55I_n$	Cold state <sup>a</sup>	$1\text{s} < t < 60\text{s}$ (For $I_n \leq 32\text{A}$ ) $1\text{s} < t < 120\text{s}$ (For $I_n > 32\text{A}$ )	Tripping	
d		$3I_n$ $5I_n$ $10I_n$	Cold state <sup>a</sup>	$t \leq 0.1\text{s}$	Non-tripping	Make the current by closing the auxiliary switch
e		$5I_n$ $10I_n$ $20I_n$ <sup>b</sup>	Cold state <sup>a</sup>	$t < 0.1\text{s}$	Tripping	Make the current by closing the auxiliary switch

Note: Consider adding a test between c and d for type D circuit breakers.

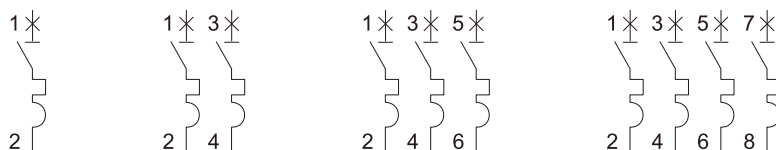
a The term "cold" means no load before the test at the reference calibration temperature.

b The specific setting is  $50I_n$ .

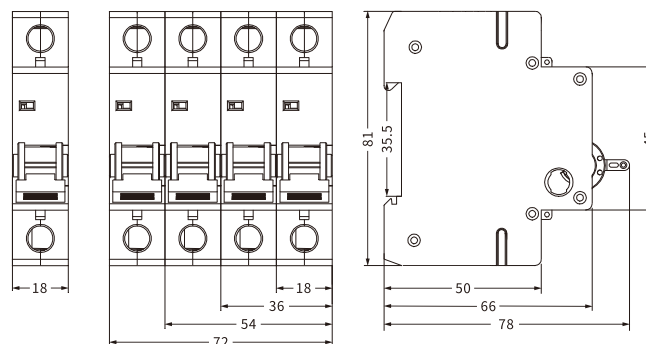
## Tripping Characteristics

According to the tripping characteristics, MCB in B, C, D curve is suitable for different types of equipment  
 B, Curve for devices that do not cause surge current (lighting and distribution circuits) short-circuit trip set to  $(3-5)I_n$   
 C, Curve for devices that cause surge current (industrial loads and motor circuits) short-circuit trip set to  $(5-10)I_n$   
 D, The circuit protection curve that leads to high surge current, generally at a thermal rating of  $12-15I_n$  (transformers, X-ray machines, etc.), and the short-circuit trip set to  $(10-20)I_n$

## Circuit Diagram



## Outline Dimensions (mm)



# LMB1-63H 10kA

**LVMA**

Miniature Circuit Breaker ----- IEC60898-1



## Technical Data

Rated current	1,2,3,4,5,6,8,10,16,20,25,32,40,50,63
Number of poles	1P,2P,3P,4P
Rated voltage	230/400V
Insulation voltage	500V
Rated frequency	50/60Hz
Rated breaking capacity	10,000A
Energy limiting class	3
Rated impulse withstand voltage (1.5/50)	4,000V
Dielectric test voltage at Ind. Freq. for 1min	2kV
Pollution level	2
Thermal-magnetic release characteristics	B,C,D
Electrical life	8,000 Cycles
Mechanical life	20,000 Cycles
Contact position indicator	Yes
Protection level	IP20
Setting reference temperature for thermal element	30°C
Ambient temperature (daily mean $\leq 35^{\circ}\text{C}$ )	$-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Storage temperature	$-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Terminal connection type	Cable/Pin-type Busbar/U-type Busbar
Cable terminal dimensions (top to bottom)	25mm 18-3AWG
Pin-type busbar dimensions (top to bottom)	25mm 18-3AWG
Tightening torque	2.5nm 22In-lbs
Installation	On 35mm DIN Rail
Connection	Top to Bottom
Auxiliary contact	OF
Alarm contact	FB
Shunt release+Auxiliary	MX+OF
Over-voltage/Under-voltage release	MN+MV

# LMB1-63H 10kA

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Miniature Circuit Breaker ----- IEC60898-1

## MCB Characteristics

Test	Type	Test current	Initial state	Tripping or non-tripping time limit	Expected results	Remark
a	B,C,D	$1.13I_n$	Cold state <sup>a</sup>	$t \leq 1 \text{ h}$ (For $I_n \leq 63\text{A}$ ) $t \leq 2 \text{ h}$ (For $I_n > 63\text{A}$ )	Non-tripping	
b		$1.45I_n$	Subsequent test <sup>a</sup>	$t < 1 \text{ h}$ (For $I_n \leq 63\text{A}$ ) $t < 2 \text{ h}$ (For $I_n > 63\text{A}$ )	Tripping	The current increases steadily within 5s
c		$2.55I_n$	Cold state <sup>a</sup>	$1\text{s} < t < 60\text{s}$ (For $I_n \leq 32\text{A}$ ) $1\text{s} < t < 120\text{s}$ (For $I_n > 32\text{A}$ )	Tripping	
d		$3I_n$ $5I_n$ $10I_n$	Cold state <sup>a</sup>	$t \leq 0.1\text{s}$	Non-tripping	Make the current by closing the auxiliary switch
e		$5I_n$ $10I_n$ $20I_n$ <sup>b</sup>	Cold state <sup>a</sup>	$t < 0.1\text{s}$	Tripping	Make the current by closing the auxiliary switch

Note: Consider adding a test between c and d for type D circuit breakers.

a The term "cold" means no load before the test at the reference calibration temperature.

b The specific setting is  $50I_n$ .

## Tripping Characteristics

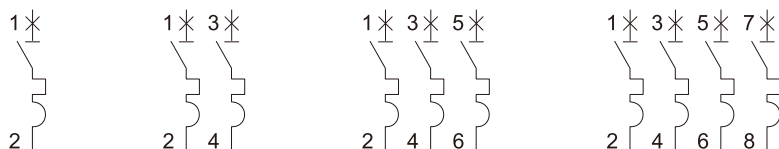
According to the tripping characteristics, MCB in B, C, D curve is suitable for different types of equipment

B, Curve for devices that do not cause surge current (lighting and distribution circuits) short-circuit trip set to  $(3-5)I_n$

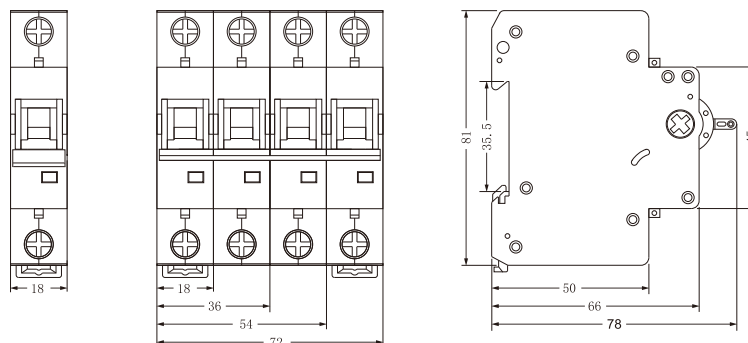
C, Curve for devices that cause surge current (industrial loads and motor circuits) short-circuit trip set to  $(5-10)I_n$

D, The circuit protection curve that leads to high surge current, generally at a thermal rating of  $12-15I_n$  (transformers, X-ray machines, etc.), and the short-circuit trip set to  $(10-20)I_n$

## Circuit Diagram



## Outline Dimensions (mm)



# LMB1-125P 6kA/10kA/15kA

**LVMA**

Miniature Circuit Breaker

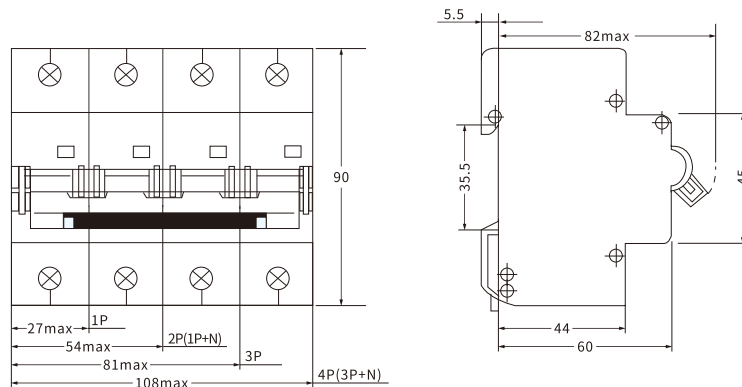
IEC60898-1/IEC60947-2



## Technical Data

Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No.of poles	1P,2P,3P,4P
Rated voltage (Ue)	240/415V~
Rated currents (In)	63,80,100,125A
Rated frequency	50/60Hz
Rated breaking capacity	6000A/10000A/15000A
Rated impulse withstand voltage(1.2/50) (Uimp)	4,000V
Dielectric test voltage at Ind. Freq.for 1 min	2kV
Thermal release characteristic	(1.13-1.45)×In
Thermo-magnetic release characteristic	C:(5-10)×In/D:(10-20)×In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Ambient temperature	-5°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar
Max.terminal size for cable	50mm <sup>2</sup>
Max.tightening torque	3.5N.m
Installation	Mounting on 35mm DIN rail
Connection	From top and bottom

## Overall and Installation Dimension(mm)

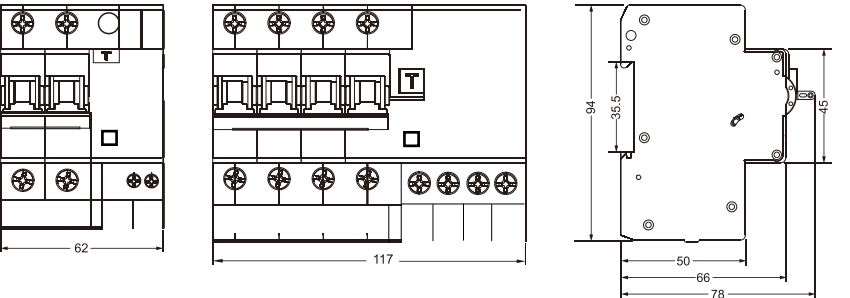


# LM47LE-63 4.5kA

RCCB With Overcurrent Protection ----- IEC61009-1



## Overall and Installation Dimension(mm)



## Technical Data

Protection	Ground fault, Overcurrent and short circuit, Over-voltage(selectable)
Type of trip	Overload and short circuit :Thermo-magnetic
Type of protection (electric leakage)	AC,A
No.of poles	1P+N,2P,3P,3P+N,4P
Rated voltage (Ue)	1P+N/2P: 230/240V/3P/3P+N/4P: 400/415V
Rated currents (In)	6,10,16,20,25,32,40,50,63
Rated sensitivity currents (IΔn)	30,100,300mA
Residual current off-time under (IΔn)	≤ 0.1s
Rated residual making and breaking capacity (IΔm)	500A(In≤50A)
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse withstand voltage(1.2/50) (Uimp)	4,000V
Dielectric test voltage at Ind. Freq.for 1 min	2kV
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	A: 2×In, B: (3-5)×In,C: (5-10)×In,D: (10-20)×In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Ambient temperature	-25°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar
Max.terminal size for cable	25mm <sup>2</sup>
Max.tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Connection	From top

# LMB1LE-80/80H 6kA/10kA

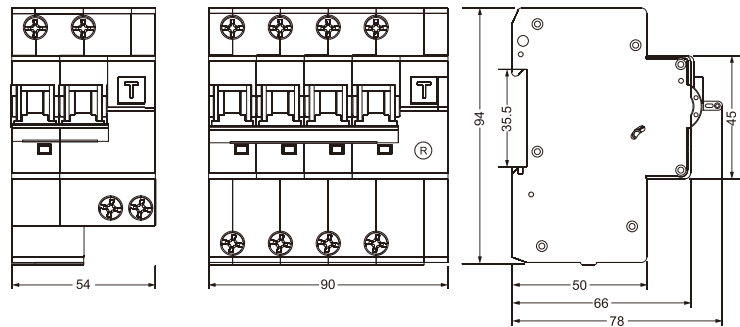
**LVMA**

RCCB With Overcurrent Protection

IEC61009-1



## Outline Dimensions (mm)



## Technical Data

Protection	Ground fault, Overcurrent and short circuit, Over-voltage(selectable)
Type of trip	Overload and short circuit Thermo-magnetic
Type of protection(electric leakage)	AC/A/S
No. of poles	1P+N, 2P, 3P, 3P+N, 4P
Rated voltage(Ue)	1P+N/2P:230/240V/3P/3P+N/4P:400/415V
Rated currents(In)	6, 10, 16, 20, 25, 32, 40, 50, 63, 80A
Rated sensitivity currents(IΔn)	10/30/100/300mA The factory default is 30 mA
Residual current off-time under(IΔn)	≤0.1s
Rated residual making and breaking capacity (IΔm)	500A(In≤50A), 10In(In>50A)
Rated frequency	50/60Hz
Rated breaking capacity	6,000A/10,000A
Energy Limiting Class	3
Rated impulse withstand voltage(1.2/50)(Uimp)	4,000V
Dielectric test voltage at Ind. Freq. for 1 min	2kV
Thermal release characteristic	(1.13-1.45)×In
Magnetic release characteristic	B:(3-5)×In, C:(5-10)×In, D:(10-20)×In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Ground fault indicator	Yes
Protection degree	IP20
Ambient temperature	-25°C to +55°C, Max. 95% humidity
Terminal connection type	Cable/Pin-type busbar
Max. terminal size for cable	25mm <sup>2</sup>
Max. tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Connection	From top



LMB1LE-80/80H 6kA/10kA

RCCB With Overcurrent Protection ----- IEC61009-1

Tripping Current Range

Type	Tripping current $I\Delta/A$		
AC	$0.5I\Delta n < I\Delta < I\Delta n$		
A	Angle hysteresis	$I\Delta n > 0.01A$	$I\Delta n \leq 0.01A$
	0°	$0.35I\Delta n \leq I\Delta \leq 1.4I\Delta n$	$0.35I\Delta n \leq I\Delta \leq 2I\Delta n$
	90°	$0.25I\Delta n \leq I\Delta \leq 1.4I\Delta n$	$0.25I\Delta n \leq I\Delta \leq 2I\Delta n$
	135°	$0.11I\Delta n \leq I\Delta \leq 1.4I\Delta n$	$0.11I\Delta n \leq I\Delta \leq 2I\Delta n$

MCB Characteristics

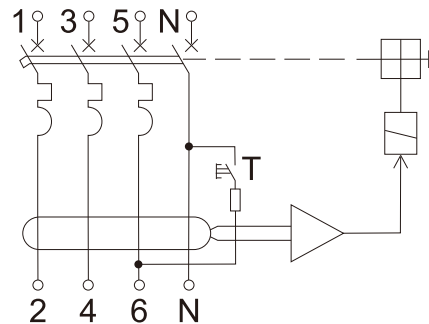
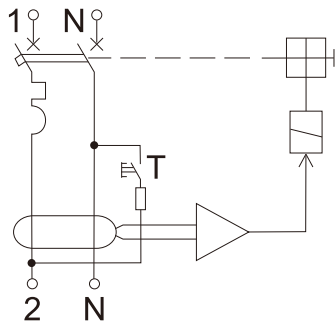
Test	Type	Test current	Initial state	Tripping or non-tripping time limit	Expected results	Remark
a	B,C,D	$1.13I_n$	Cold state <sup>a</sup>	$t \leq 1 \text{ h}$ (For $I_n \leq 63A$ ) $t \leq 2 \text{ h}$ (For $I_n > 63A$ )	Non-tripping	
b		$1.45I_n$	Subsequent test <sup>a</sup>	$t < 1 \text{ h}$ (For $I_n \leq 63A$ ) $t < 2 \text{ h}$ (For $I_n > 63A$ )	Tripping	The current increases steadily within 5s
c		$2.55I_n$	Cold state <sup>a</sup>	$1s < t < 60s$ (For $I_n \leq 32A$ ) $1s < t < 120s$ (For $I_n > 32A$ )	Tripping	
d		$3I_n$ $5I_n$ $10I_n$	Cold state <sup>a</sup>	$t \leq 0.1s$	Non-tripping	Make the current by closing the auxiliary switch
e		$5I_n$ $10I_n$ $20I_n$ <sup>b</sup>	Cold state <sup>a</sup>	$t < 0.1s$	Tripping	Make the current by closing the auxiliary switch

Note: Consider adding a test between c and d for type D circuit breakers.

a The term "cold" means no load before the test at the reference calibration temperature.

b The specific setting is  $50I_n$ .

Circuit Diagram



# LMNL 6kA

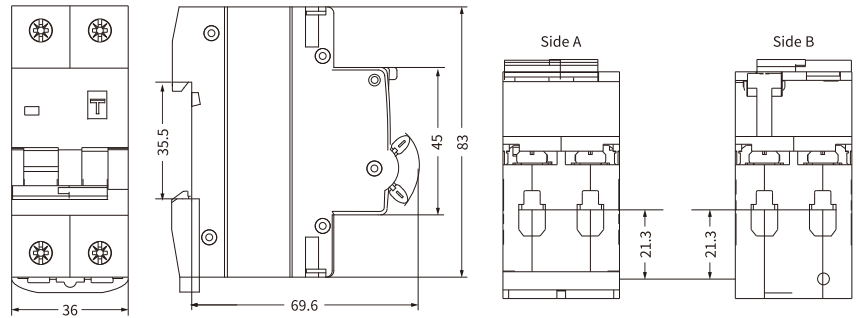
LVMA

RCCB With Overcurrent Protection

IEC61009-1



## Overall and Installation Dimension(mm)



## Technical Data

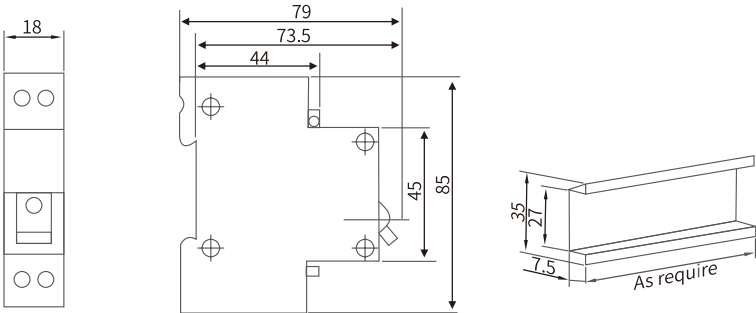
Protection	Ground fault, Overcurrent and short circuit
Type of trip	Ground fault : Electro-magnetic Overload and short circuit :Thermo-magnetic
Type of protection (electric leakage)	AC,A
No.of poles	1P+N 2module , N line with disconnected
Rated voltage (Ue)	230/240V~
Rated currents (In)	6,10,16,20,25,32,40,50,60A
Rated sensitivity currents (I $\Delta$ n)	30,100,300mA
Residual current off-time under (I $\Delta$ n)	≤ 0.1s
Rated residual making and breaking capacity(I $\Delta$ m)	500A(In≤50A), 10In(In>50A)
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Energy limiting class	3
Rated impulse withstand voltage(1.2/50) (Uimp)	4,000V
Dielectric test voltage at Ind. Freq.for 1 min	2kV
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B:(3-5) x In, C:(5-10) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Ground fault indicator	Yes
Protection degree	IP20
Ambient temperature	-25°C to +55°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max.terminal size for cable	25mm <sup>2</sup>
Max.tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Connection	From top and bottom

LMB5L-40

RCCB With Overcurrent Protection----- IEC61009-1



Overall and Installation Dimension(mm)



LMB5L-40 RCBO is suitable to the single phase residual circuit of 50/60Hz, rated voltage 230V, as the current leakage protection and protect the civil electrical circuit from over load and short circuit and it has the features of volume small, breaking capacity high. Null/live wire is cut at the same time, and even the wire is reverse connection, it still have current leakage protection. The product conforms to standards IEC1009.1, GB16917.1 etc.

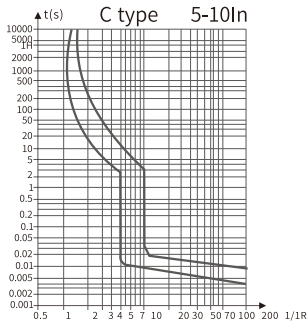
Technical Data

No. of poles	1P+N
Rated voltage(V)	230(220)
Rated current(A)	6, 10, 16, 20, 25, 32, 40
Shell-level rated current(A)	40A
Rated breaking residual current(mA)	10, 30, 100
Rated not breaking residual current(mA)	0.5I <sub>Δn</sub>
Breaking time of rated residual current(s)	≤0.1
Breaking Capacity (A)	6000

Overcurrent Trip Characteristic Table

Test current	1.13I <sub>n</sub>	1.45I <sub>n</sub>	2.55I <sub>n</sub>	2.55I <sub>n</sub>	5I <sub>n</sub>	10I <sub>n</sub>
Rated current (A)	All		I <sub>n</sub> ≤ 32A	I <sub>n</sub> > 32A	All	
Requested time	t ≤ 1h	t ≤ 1h	I <sub>s</sub> ≤ t ≤ 60s	I <sub>s</sub> ≤ t ≤ 120s	t ≤ 0.1s	t ≤ 0.1s
Result	Don't trip	Trip	Trip	Trip	Don't trip	Trip
Start station	Cool	Heat	Cool	Cool	Cool	Cool

Breaking Characteristic Curve



- Application guidelines:
1. Press the test button once a month, check leakage protective device.
  2. When the leakage protective device, the device on the obverse of the red machine instructions.
  3. When reclosing circuit breaker, the protection device reset automatically.

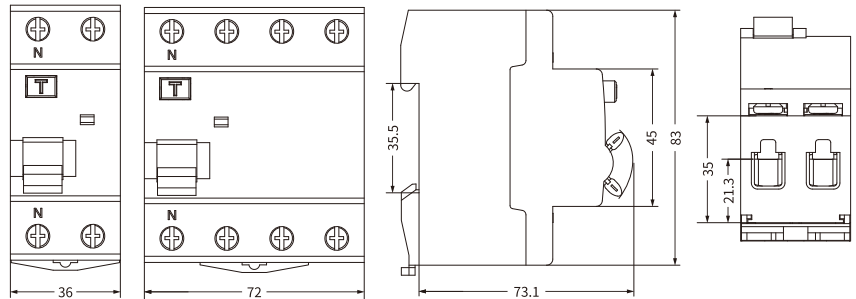
# LMIDL2

LVMA

Residual Current Circuit Breaker----- IEC61008-1



## Overall and Installation Dimension(mm)



## Technical Data

Protection	Ground fault, Overcurrent and short circuit
Type of trip	Electro-magnetic
Type of protection (electric leakage)	AC,A,G,S
No.of poles	2P(1P+N), 4P(3P+N) , N Pole on left
Rated voltage (Ue)	1P+N: 230/240V~, 3P+N: 400/415V~
Rated currents (In)	16,25,32,40,63,80,100A
Rated sensitivity currents (I $\Delta$ n)	30,100,300mA (10mA only for In=16-25A)
Residual current off-time under (I $\Delta$ n)	≤ 0.1s
Rated residual making and breaking capacity (I $\Delta$ m)	500A(In≤50A), 10In(In>50A)
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse withstand voltage(1.2/50) (Uimp)	4,000V
Dielectric test voltage at Ind. Freq.for 1 min	2kV
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles
Contact position indicator	Yes
Ground fault indicator	Yes
Protection degree	IP20
Ambient temperature	-25°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max.terminal size for cable	35mm <sup>2</sup>
Max.tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Connection	From top and bottom

## LMBG-63/125

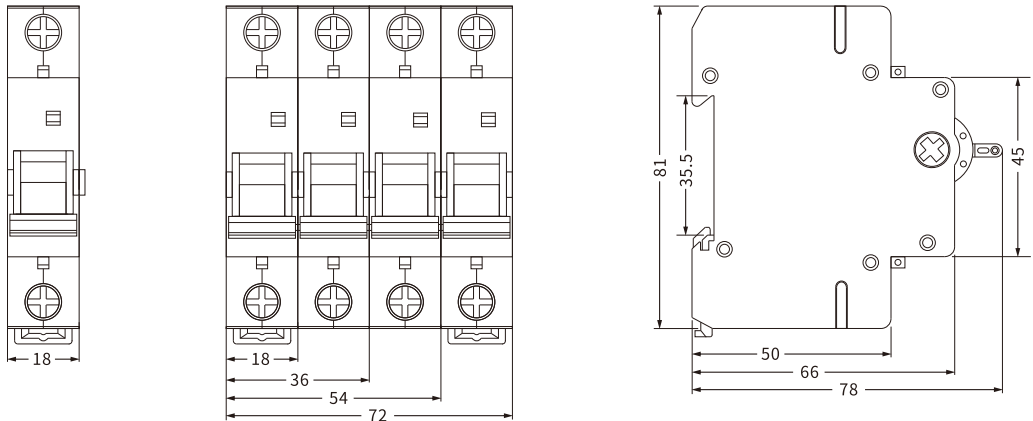
Isolator switch ----- IEC/EN60947-3



### Technical Data

No.of poles	1P,2P,3P,4P
Rated voltage (Ue)	240/415V~
Rated currents (In)	25,32,40,50,63,80,100,125A
Rated frequency	50/60Hz
Utilization category	AC-22A
Rated insulation voltage (Ui)	500V
Electrical life	2,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Ambient temperature	-5°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar
Max.terminal size for cable	50mm <sup>2</sup>
Max.tightening torque	3.5N.m
Installation	Mounting on 35mm DIN rail
Connection	From top and bottom

### Overall and Installation Dimension(mm)



LMB1-80DC

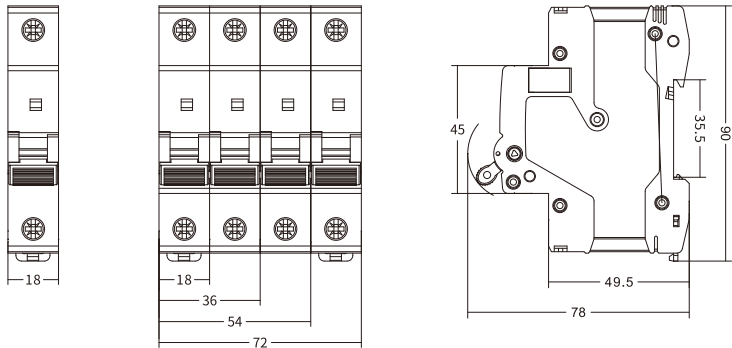
DC Miniature Circuit Breaker ----- IEC60898-1



Technical Data

Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No.of poles	1P,2P,3P,4P
Rated voltage (Ue)	1P(250VDC)/2P(500VDC)/3P(1000VDC)/4P(1000VDC)
Rated currents (In)	1,2,3,4,6, 10,16,20,25,32,40,50,63A
Rated breaking capacity	10,000A
Rated impulse withstand voltage(1.2/50) (Uimp)	4,000V
Dielectric test voltage at Ind. Freq.for 1 min	3kV
Thermal release characteristic	(1.05-1.30) x In
Magnetic release characteristic	(8-12) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Ambient temperature	-5°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max.terminal size for cable	35mm <sup>2</sup>
Max.tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Connection	According to the wiring diagram

Overall and Installation Dimension(mm)





LMB1-125DC

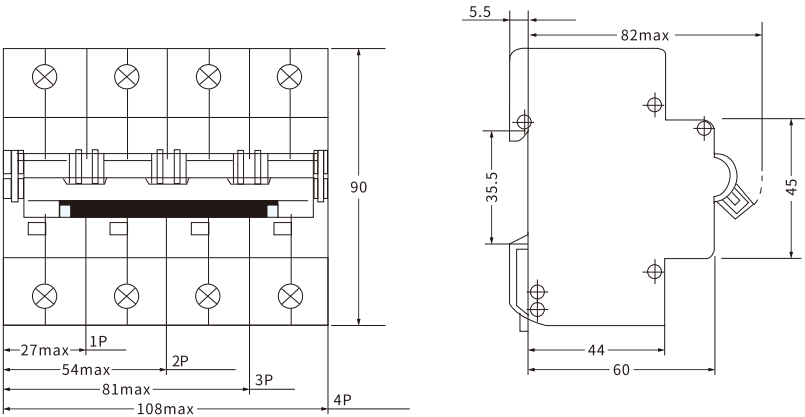
DC Miniature Circuit Breaker ----- IEC60898-1



Technical Data

Protection	Over current and short circuit
Type of trip	Thermo-magnetic
No. of poles	1P, 2P, 3P, 4P
Rated currents In	40, 50, 63, 80, 100, 125A
Rated voltage Ue	1P(250VDC)/2P(500VDC)/3P (1000VDC)/4P(1000VDC)
Rated breaking capacity	10,000A
Rated impulse withstand voltage(1.5/50)Uimp	4,000V
Dielectric test voltage at Ind.Freq.for 1 min	3kV
Thermal release characteristic	(1.05-1.30)×In
Magnetic release characteristic	(8-12)×In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Ambient temperature	-5°C to +40°C Max.95%humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max.terminal size for cable	35mm <sup>2</sup>
Max.tightening torque	2.5N.m
Installation	Mounting on 35 mm DIN rail
Connection	According to the wiring diagram

Overall and Installation Dimension(mm)



## LMB5-40P

High Voltage DC Miniature Circuit Breaker

IEC60898-1



### Technical Data

No.of poles		1P,2P,3P,4P
Rated current In		6A,10A,16A,20A,25A,32A,40A
Rated working voltage Ue		1P:500V DC 2P:1000V DC 3P:1500V DC 4P:1500V DC
Rated Insulation voltage Ui		1P/2P:1000V DC 3P/4P:1500V DC
Operational breaking capacity Ics		1.5kA(DC)
Ultimate breaking capacity Icu		1.5kA(DC)
Maximum frame current		40A
Rated impulse withstand voltage Uimp		8kV
electrical life		1000 Cycles
mechanical life		≥ 15000 Cycles
Protection level		IP40
Wiring torque		3.0Nm
Tripping characteristics		B/C/D
Tripping type		Thermal-magnetic
Operating ambient temperature		-30℃~+70℃
Storage ambient temperature		-40℃~+85℃
Installation method		DIN35
Size	Length	108mm
	Width	1P:18mm 2P:36mm 3P:54mm 4P:72mm
	Height	Max78mm

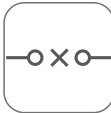
### Feature



Non-polar, bidirectional protection



Compact Size



Short Circuit Protection



Overload Protection



Flame Retardant Material



High Breaking Capacity



Short Arc



Multiple wiring options



Complete accessories

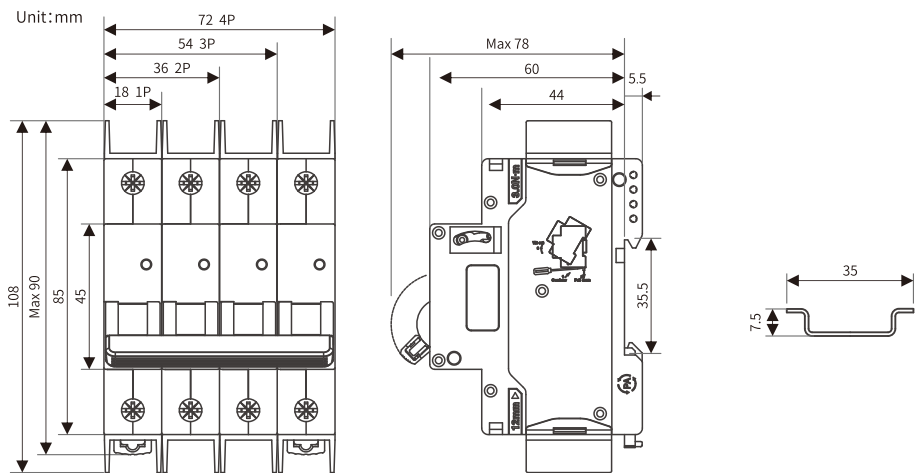
LMB5-40P

High Voltage DC Miniature Circuit Breaker ----- IEC60898-1

MX auxiliary release device

Rated Control Voltage Us	DC:24~48V AC:110~230V
Maximum Tripping Time	< 10ms
Coil Resistance	5Ω
Limit current	≥1.6A
Mechanical Life	10000 Cycles
Electrical Life	4000 Cycles
Wiring torque	0.8 N·m
Wiring capability	1.0mm² Hard wire /1.0mm² Soft wire with terminal lugs
Operating Temperature Range	-30℃~+70℃
Environmental conditions	There should be no explosive hazardous substances,and no harmful gases or conductive dust that can corrode or damage insulation
Assembly position	To the left side of the circuit breaker
Installation conditions	DIN 35mm standard rail mounting
Auxiliary contact OF	
Contact breaking capacity	AC13: Ie=3A; Ue=250V/AC15: Ie=2A; Ue=250V/AC12: Ie=0.5A; Ue=110V
Minimum Operating Voltage	5V
Minimum Operating Current	10mA
Rated Insulation Voltage	500V
Rated limited short-circuit current Ik	1000A
Agreed heating current Ith	4A
Mechanical Life	10000 Cycles
Electrical Life	4000 Cycles
Wiring torque	0.8 N·m
Wiring capability	1.0mm²
Number of contacts	1 normally open,1 normally closed
Operating Temperature Range	-30℃~+70℃
Environmental conditions	There should be no explosive hazardous substances,and no harmful gases or conductive dust that can corrode or damage insulation
Assembly position	To the left side of the circuit breaker
Installation conditions	DIN 35mm standard rail mounting

Appearance and installation dimensions












# WiFi Din Rail Switch

WiFi Din Rail Switch-----

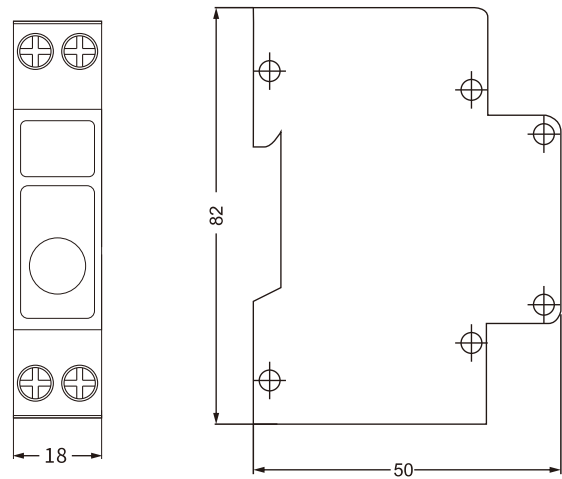


## Technical Data

Poles description	1P+N (N pole Pass-through)
Rated operating voltage range	90-300V
Control type	Manual, Remote control APP
Protocol	Wifi (Default)
Customization	SigMesh/ZigBee

-  Remote control
-  Voice control
-  Overcurrent protection
-  Timing
-  Countdown
-  Undervoltage protection
-  Loop timing
-  Real-time monitoring of electricity consumption
-  Overvoltage protection

## Overall and Installation Dimension(mm)





**50k+** m<sup>2</sup>  
Floor Area



**600+**  
Employees



**80+**  
Export Countries



**20+** Years  
Industry Experience



**≥50%**  
Automation Rate

**ZHEJIANG LVMA ELECTRIC CO., LTD.** specializes in the R&D, production, and sales of low-voltage electrical appliances.

## Core Offerings

Final Distribution Application

Power Distribution Application

Industrial Control Application

Solar System Application

## Quality Assurance

- IEC-compliant testing center
- Management System Certification: ISO 9001/14001/45001
- Product Conformity Certification



**RoHS**

## Global Reach

- Exports to 80+ countries (EU, South America, MENA, ASEAN, Africa)
- Supports **OEM, ODM** and SKD partnerships

## Corporate Culture

Smart Power, Safe Life



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