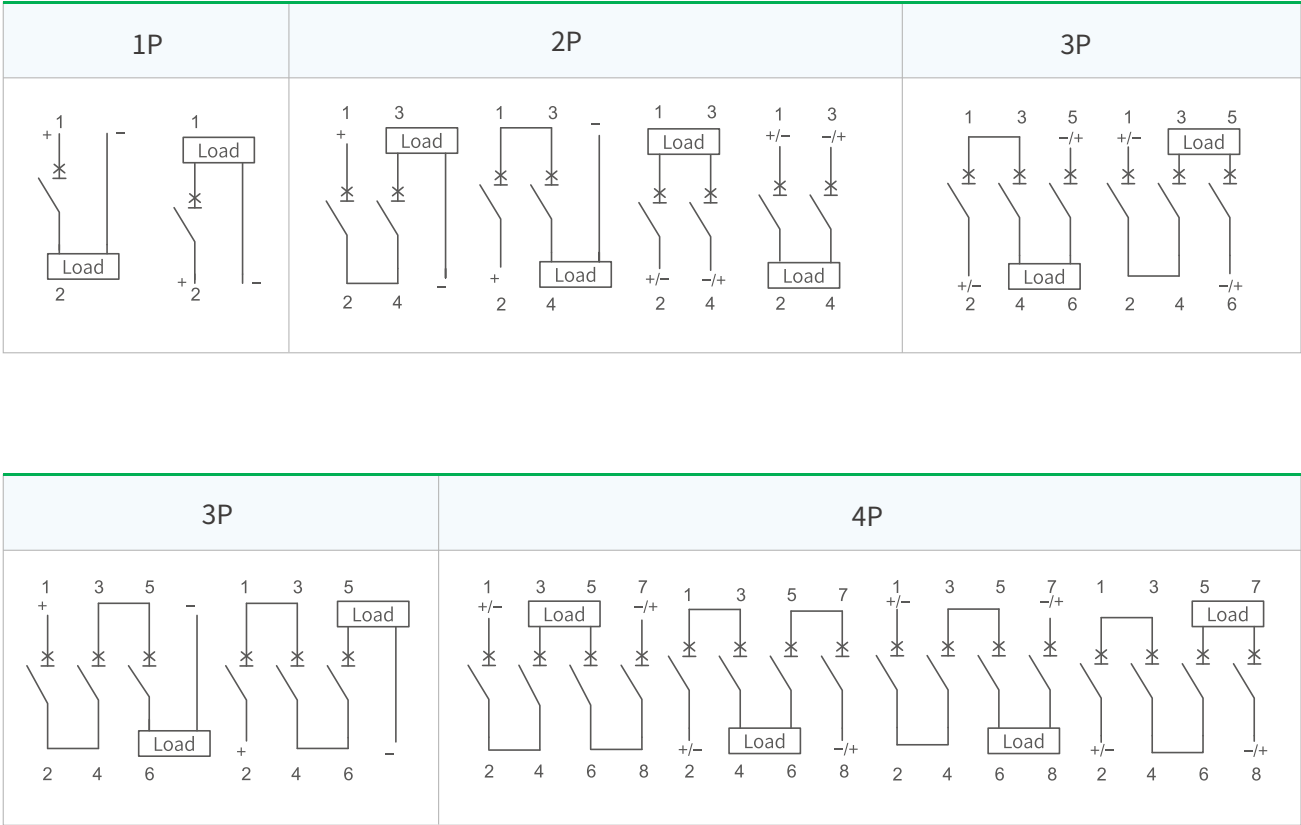


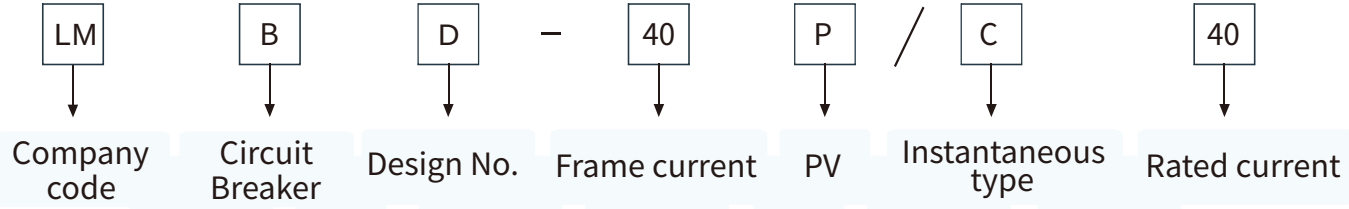
LMBD-40P Series(DC)



DC wiring diagram



Specifications and model description

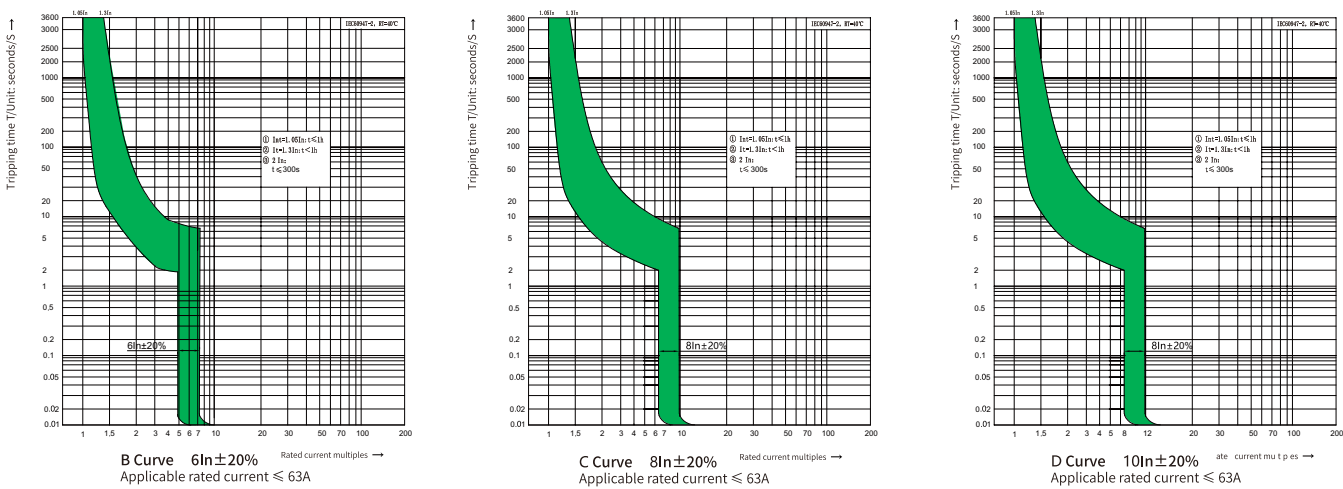


Exquisite craftsmanship High standards High requirements

Focus on details to achieve high quality

- Compact size
- Short circuit protection
- Overload protection
- Flame-retardant materials
- High segmentation
- Short arcing
- Complete attachments
- Multiple wiring options

Tripping characteristics



Technical Data

Standard:EN60947-2、AS/NZS IEC 60947.2					GB/T14048.2						
Pole			1P		2P		3P		4P		
Rated Operational Voltage Ue			500VDC		1000VDC		1500VDC		1500VDC		
Shell Level Rated Current			40A								
Rated Current In			6A, 10A, 16A, 20A, 25A, 32A,40A								
Rated Insulation Voltage Ui			1000V				1500V				
Rated Impulse Withstand Voltage Uimp			8kV								
Tripping Characteristic			B/C/D								
Tripping mechanism type			Thermal-magnetic								
Ultimate Breaking Capacity Icu			1.5 kA								
Operational breaking capability Ics			1.5 kA								
Electrical life	Actual Mean		Average 1000 times								
	Standard Reference Value		300 Times								
Mechanical life	Actual Mean		≥15000 Times								
	Standard Reference Value		9700 Times								
Overvoltage Category			III								
Pollution Degree			3								
Ingress Protection (IP) rating			IP40; Terminal IP20								
Damp Heat Resistance			Category 2								
Relative Humidity			≤95%								
Vibration Resistance			According to IEC60068-2-6								
Mechanical Shock Resistance Parameters			According to IEC60068-2-27								
Terminal capacity			2.5~35mm²								
Terminal Connection Torque			3.0Nm								
Operating Temperature Range			-30°C~+70°C								
Storage Temperature Range			-40°C~+85°C								
Installation Method			DIN35								
Altitude			≤2000m								
Dimension			Length: 108mm								
			Width: 72mm (4P), 54mm (3P), 36mm(2P), 18mm (1P)								
			Height: Max78mm								
Weight			0.13kg/Pole								

Package & Storage				
Current	No. of poles	pcs/box	box/carton	carton/holder
40A	1P	12	10	80
	2P	6	10	80
	3P	4	10	80
	4P	3	10	80

Products should be stored in a ventilated warehouse. The relative humidity should not exceed 80%, and the ambient temperature should be between -40°C and +85°C, and there should be no acidic, alkaline and corrosive gases.

Accessory

Shunt Release MX Technical Specifications	
Rated Control Voltage Us	DC:24~48V AC:110~230V
Maximum Tripping Time	< 10ms
Coil Resistance	5Ω
Current Limiting	≥16A
Mechanical Life	10000 times
Electrical Life	4000 times
Terminal Torque	2.5~3.5 N·m
Terminal Capacity	1~35mm2(Rigid cable), 1~35mm2(Flexible cable, with crimp terminal lugs)
Operating Temperature Range	-30°C~+70°C
Environmental conditions	There shall be no medium that may cause an explosion hazard, and no harmful gases and conductive dusts that may corrode and damage the insulation.
Installation Location	The left side of the circuit breaker
Installation conditions	Mounting on DIN 35mm standard rail

Auxiliary Contact OF Technical Specifications	
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 short-circuit current limiting Ik	1000A
Conventional Thermal Current Ith	4A
Mechanical Life	10000次
Electrical Life	4000次
Terminal Torque	0.3~0.8 N·m
Terminal Capacity	1x1.0 ~1x2.5 mm²
Number of contacts	1 normally open, 1 normally closed
Operating Temperature Range	-30°C~+70°C
Environmental conditions	There shall be no medium that may cause an explosion hazard, and no harmful gases and conductive dusts that may corrode and damage the insulation.
Installation Location	The left side of the circuit breaker
Installation conditions	Mounting on DIN 35mm standard rail

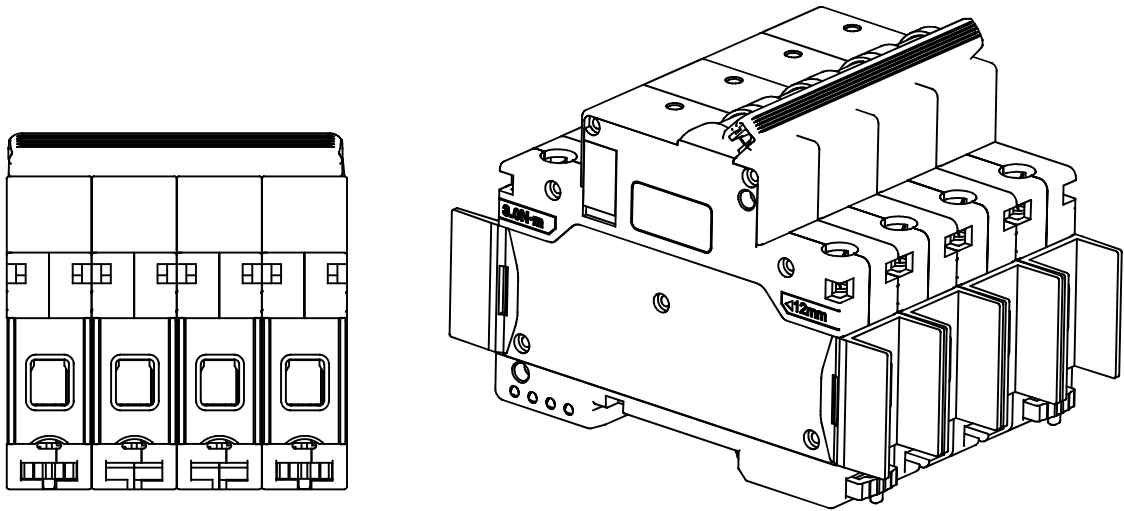
Derating factor

Temperature Derating Factor Table										
Temperature	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C
Rated Operating Current Coefficient	1.279	1.261	1.242	1.223	1.204	1.182	1.161	1.143	1.127	1.103

Temperature	20°C	25°C	30°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C
Rated Operating Current Coefficient	1.079	1.063	1.047	1	0.984	0.968	0.952	0.922	0.904	0.891

Altitude derating factor table				
Altitude /m	2000	3000	4000	5000
Rated working current coefficient	1	0.96	0.91	0.86
Rated operating voltage coefficient	1	1	1	1
Rated power frequency withstand voltage coefficient	1	0.9	0.82	0.71
Rated impulse withstand voltage coefficient	1	0.9	0.82	0.71
Rated limit short circuit segment capacity and electrical life coefficient	1	0.82	0.7	0.6

Derating factor table for side-by-side installation of MCBs					
No. of MCB	1	2~3	4~5	6~8	9~10
In≤25A Coefficient	1	0.96	0.9	0.8	0.7
32A≤In≤63A Coefficient	1	0.92	0.8	0.7	0.6



Outline Overall And Installing Dinmensions

Unit:mm

