

## LQL7-PV

These circuit breakers are used for overcurrent protection and control in solar photovoltaic battery storage systems and DC circuits. They are available in various rated currents such.

DC circuit breakers which accept customized provide functions for circuit interruption, short circuit protection, adjustment, and protection, effectively extending the lifespan of electrical equipment.

They protect electrical equipment from damage caused by overloads, short circuits, or other electrical faults.



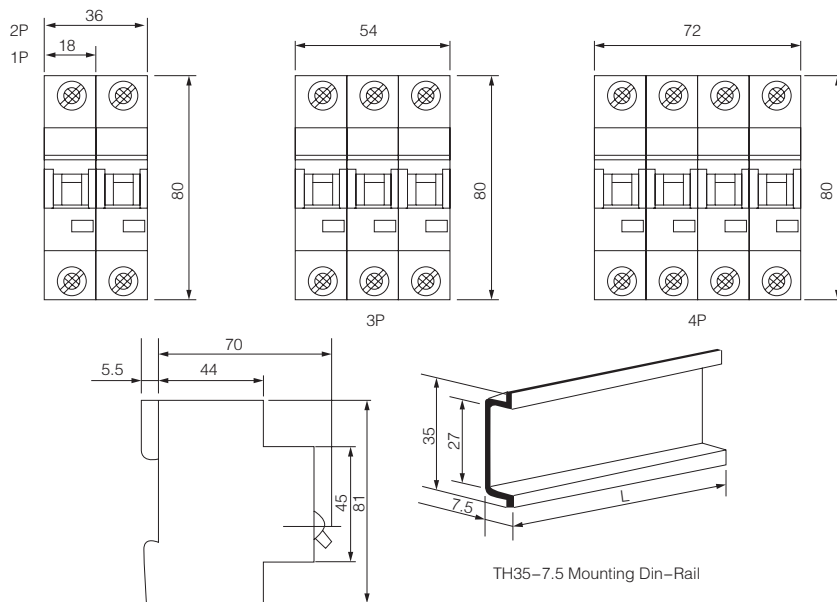
**Non-Polarity DC circuit  
breaker**



## TECHNICAL PARAMETERS

LQL7-PV Series Circuit Breaker		LQL7-PV			
Frame degree rated current (A)		63			
Ue Rated operating voltage (V DC)		<b>Electrical performance</b>			
Rated Current In (A)		1P: DC250V 2P: DC550V 3P: DC750V 4P: DC1000V			
Rated insulation voltage Ui (V DC)		6-10-16-20-25-32-40-50-63			
Rated Impact voltage Uimp (kV)		1P: DC250V 2P: DC550V 3P: DC750V 4P: DC1000V			
Ultimate breaking capacity Icu (kA)		6	6	6	6
Run breaking capacity Ics (%Icu)		75%	75%	75%	75%
Curve type		C			
Trip type		Thermal-magnetic			
MECHANICAL	Actual average value	20000			
	Standard value	8500			
ELECTRIC	Actual average value	2500			
	Standard value	1500			
Shunt release (SHT)		OPTION			
Undervoltage release (UNT)					
Auxiliary contact (AX)					
Alarm contact (AL)					
Wiring capacity (mm <sup>2</sup> )		<b>Connection and Installation</b>			
Ambient temperature (°C)		In ≤ 32A, 1~25mm <sup>2</sup> , I ≥ 40A, 10~35mm <sup>2</sup>			
Altitude		-20~70			
Relative humidity		≤ 2000			
Pollution Level		≤ 95%			
Installation Environment		3			
Installation category		No obvious shock and vibration			
Installation		Class III			
Dimensions (W) × (H) × (Deep)		DIN Standard rail			
W		17.5	35	52.5	70
H		80	80	80	80
Deep		71	71	71	71
Weight (kg)		0.12	0.24	0.36	0.48

## Dimensions(mm)



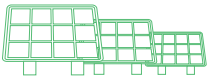


## LQB1-63Z

LQB1-63Z DC breaker supplementary protectors are designed to provide overcurrent protection within appliances or electrical equipment, where a branch circuit protection is already provided or not required. Devices are designed for direct current (DC) control circuit applications.



**Polarity DC circuit breaker**

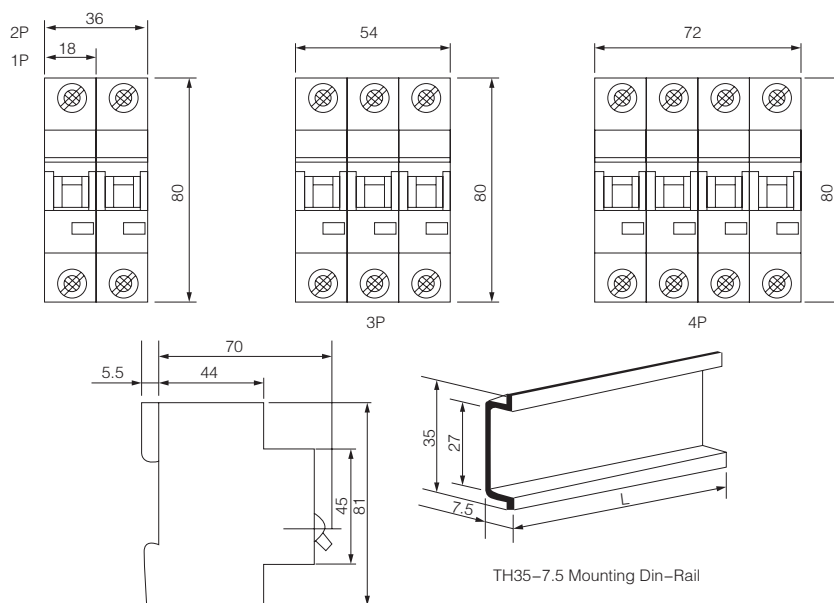


Durable quality Bright and uniform

## TECHNICAL PARAMETERS

LQB1-63Z Series Circuit Breaker		LQB1-63Z			
Frame degree rated current (A)		63			
Ue rated operating voltage (V DC)		Electrical performance			
Rated Current In (A)		1P: DC250V 2P: DC550V 3P: DC750V 4P: DC1000V			
Rated insulation voltage Ui (V DC)		6-10-16-20-25-32-40-50-63			
Rated impact voltage Uimp (kV)		800V			
Ultimate breaking capacity Icu (kA)		6	6	6	6
Run breaking capacity Ics (%Icu)		75%	75%	75%	75%
Curve type		C			
Trip type		Thermal-magnetic			
Mechanical	Actual average value	20000			
	Standard value	8500			
Electric	Actual average value	2500			
	Standard value	1500			
Shunt release (SHT)		Control and indication			
Undervoltage release (UNT)		Option			
Auxiliary contact (AX)					
Alarm contact (AL)					
Wiring capacity (mm <sup>2</sup> )		Connection and installation			
Ambient temperature (°C)		In ≤ 32A, 1~25mm <sup>2</sup> , I ≥ 40A, 10~35mm <sup>2</sup>			
Altitude		-20-70			
Relative humidity		≤ 2000			
Pollution level		≤ 95%			
Installation environment		3			
Installation category		No obvious shock and vibration			
Installation		Class III			
		DIN Standard rail			

## Dimensions(mm)





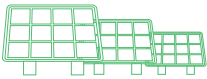
## LQM1-PV

DC Breaker Non-Polarity

- Reliable protection at high ambient temperatures
- Loadable:string protection up to  
125 size: 63A, 80A, 100A, 125A  
250 size: 160A, 200A, 225A, 250A  
400 size: 315A, 400A
- Tested:Ultimate short circuit breaking capacity Icu of 25kA according to IEC IEC60947-2
- Fast: DC molded case circuit breakers effectively prevent arc faults and melting.
- Safe:DC molded case circuit breakers feature fast and accurate circuit interruption, short circuit protection, and adjustment functions, with good circuit interruption and short circuit performance.



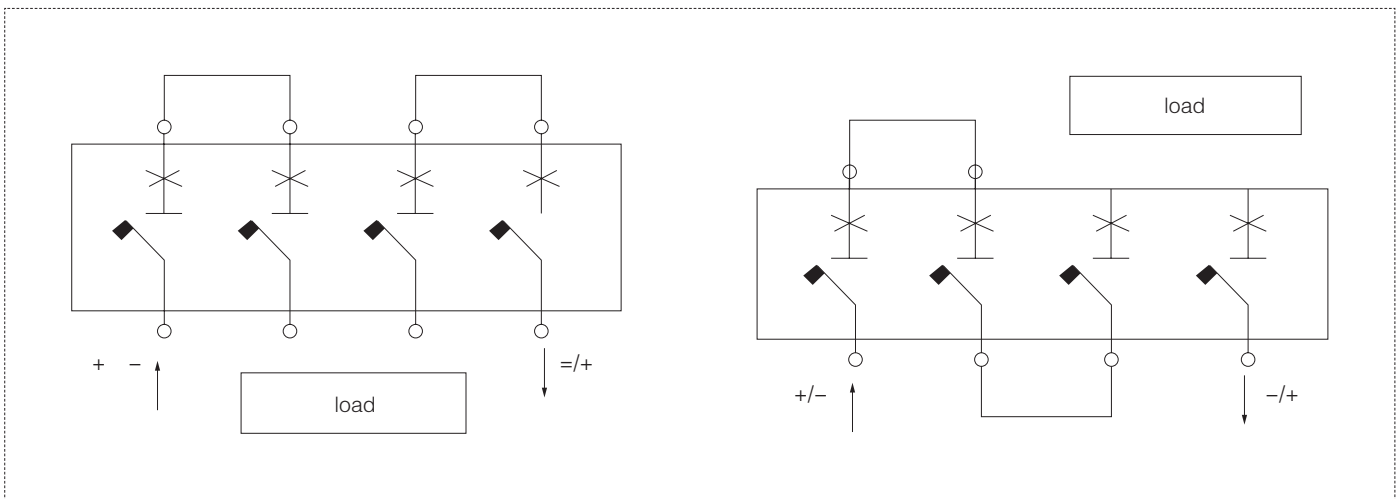
**DC Breaker Non-Polarity**



## Specifications

Rated Current $I_n$ (A)	125:63A,80A,100A,125A; 250:160A,200A,225A,250A; 400: 315A,400A
$U_e$ Rated operating voltage (VDC)	1P: DC250V 2P: DC500V 3P: DC750V 4P: DC1000V
Rated insulation voltage $U_i$ (VDC)	DC1000V
Rated Impact voltage $U_{imp}$ (kV)	8KV
Ultimate breaking capacity $I_{cu}$ (kV)	25KV
Trip type	Thermal-magnetic
Ambient temperature (°C)	-20°C~ 70°C
Alfitude	2000M
Installation	Fixed,plug-in
Accessories	Auxiliary , Alarm,Shunt release Manually operated and electric operation

## Wiring diagram



- Protection and Isolation wiring
  - The load should be  $\leq$  DC1000V
- The connection considered for a network in which the middle point of the supply source is earthed  
In this case the breaker protects and isolates the load

- Protection and Isolation wiring
  - The load should be  $\leq$  DC 1000V
- The Negative pole (-) could be earthed, but in both cases the breaker protects and isolates the load

