



GAD Technological Electricity Co.,Ltd.

Mini Circuit Breaker

JDM45-63

JDM45LE-63

JDM45-100

JDM45LE-100

- **Function:** provides the protective function of earth leakage, overload and short circuit.
- **Purpose:** used for illumination and motor.
- **Breaking capacity:** 4000A, 6000A
- **Rated current:** 6A~100A
- **NO.of pole:** 1,2,3,4
- **Standards:** conforms to the requirement of IEC 60898 & GB 10963



JDM45-63 Series

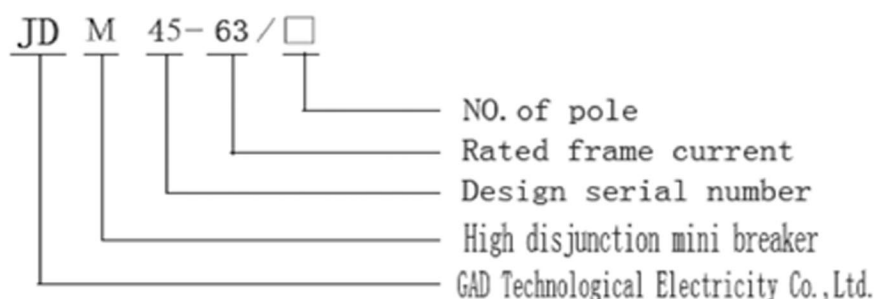


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Application

JDM45-63 High disjunction mini breaker has novel structure, reliable performance, high breaking capability, pleasing outlook and small size, its case and items are adopted by high fire-resistant and shockproof plastics. It mainly used in the building office, house and similar building for illumination at Ac 50Hz/60Hz, rated voltage below 400V, rated current 6A-63A. It is used in the distribution circuit and equipment overload, short circuit protection. It can be used for unfrequent switch over of the circuit under conditions. This product conforms to the requirement of IEC 60898 & GB 10963 standards.

Models with meaning



Breaking capacity

Rated current (A)	Type (poles)	Voltage (V)	Breaking capability (A)
1 To 40	1P	230	6000
	2,3,4P	400	6000
50 To 63	1P	230	4500
	2,3,4P	400	4500

Release action characteristics	Time delay	1.13In > 1 h non-trip0
		1.45In < 1 h trip
		2.55In 1S<60S trip
	Instantaneous	(C type5In > 0.1s non-trip; Dtype10In <0.1s trip Ctype10In<0.1s Trip; (Dtype: 20In<0.1s Trip)

Protection features

Protection features rated temperature: 30°C				
Rated voltage: AC 230V/400V				
Rated current JDM45-63(C): (1,2,3,4,5),6,10,16,20,25,32,40,50,63A				
JDM45-63(D): (1,2,3,4,5),6,10,16,20,25,32,40,50,63A				
Electric life is not lower than 6000times				
Mechanism life is not lower than 20000times				
Hot and humid test: 2 kinds (relative humid 95% in 55°C)				
Weight (g)	1P	2P	3P	4P
	102	208	308	408

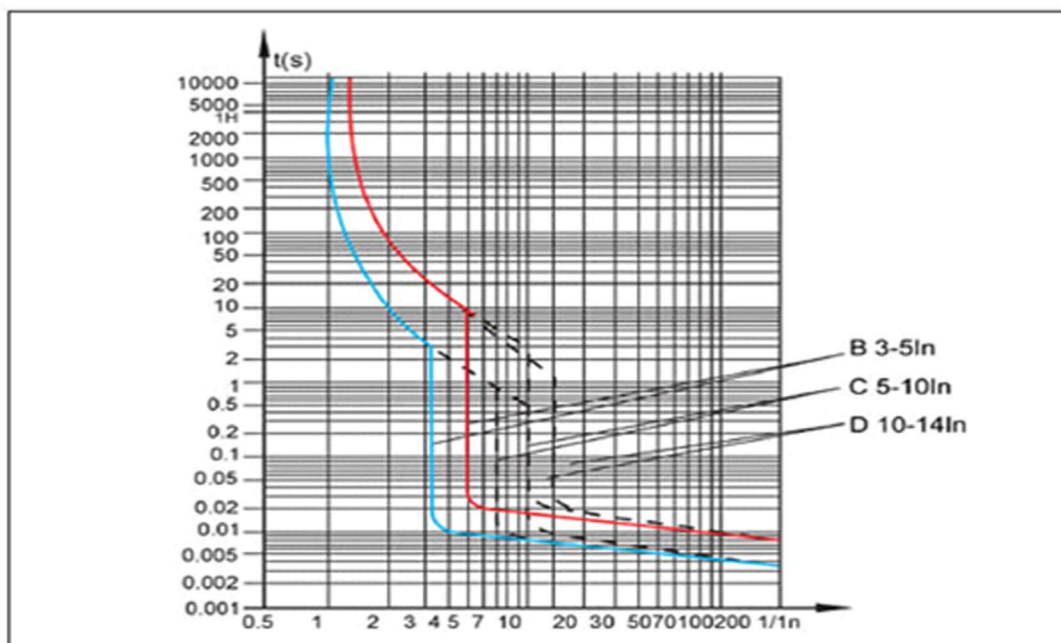


JDM45-63 Series

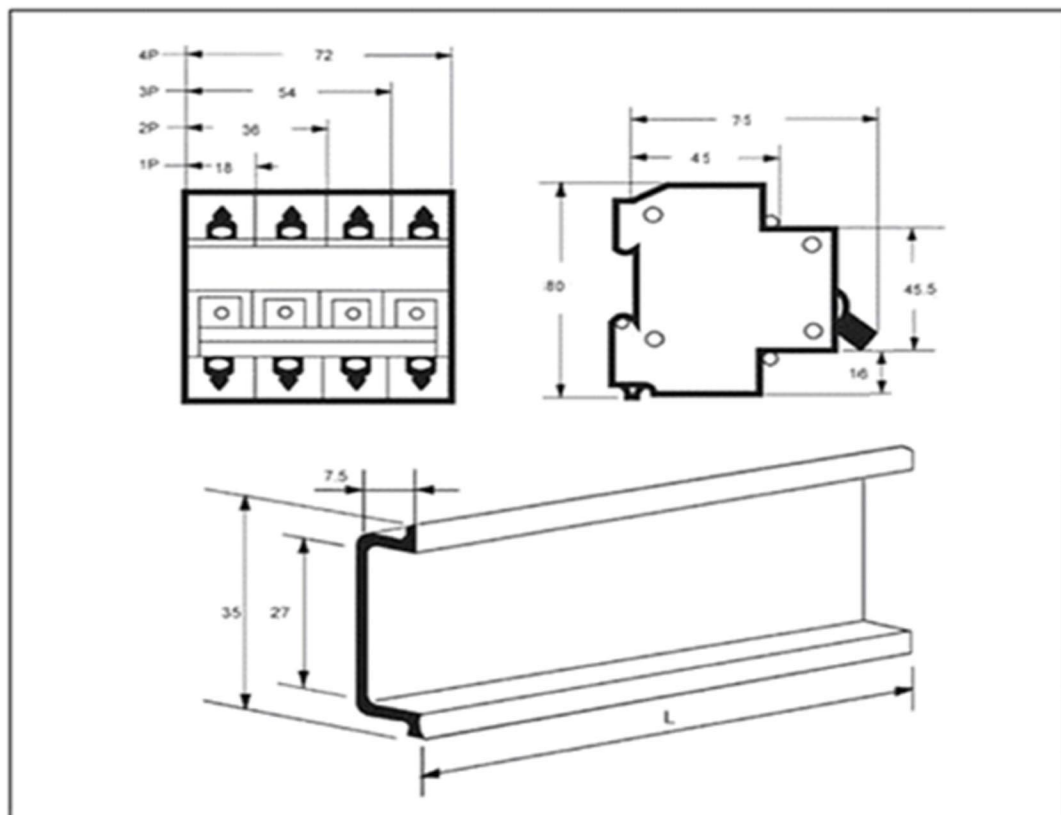


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Thermal/magnetic characteristics Tuokou (conforms to the requirement of GB&IEC)



Shape and installation Dimension



JDM45-100 Series



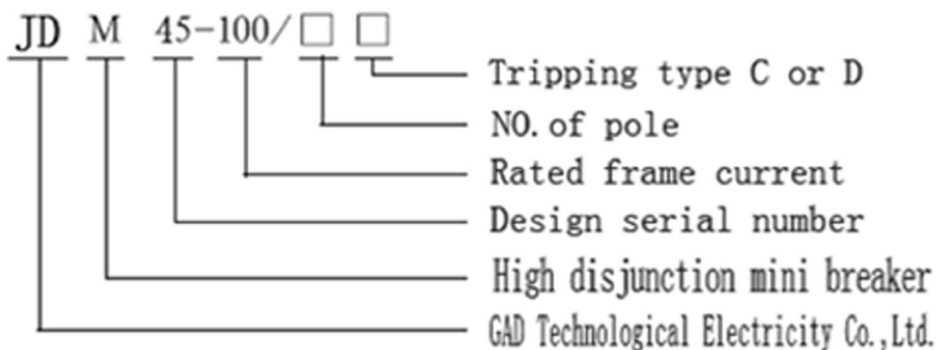
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Application

JDM45-100 series mini circuit breaker is mainly suitable for overload and short protection. It is especially used for illumination and distribution. It is of pleasing out-look, light weight, reliable performance, high breaking capacity, quick trip.etc. Its frame and parts adopt plastic of high inflammable resistance and shock resistance for long service life. It is mainly used for overload and short circuit protection within the circuit of AC 50/60Hz, rated voltage of single pole up to 230V, two, three or four poles up to 400V. It can also be used for an unfrequent switchover of circuit and illumination under normal conditions. this products conform to the requirement of IEC 60947-2 & GB 14048.2 standards



Models with meaning



Main technical parameter

1. Main type: Type C mainly used for protecting illumination
Type D mainly used for protecting motor.
2. Rated current is 63, 80, 100A
3. NO. of pole includes single pole, two, three, four pole.
4. Inlaid installation (can mount on the installation track)
5. Rated working voltage and related rated short circuit breaking capacity as show on table 1.

Table 1

Rated current (A)	Poles	Rated voltage (V)	Rated short circuit make-break capability	
			Breaking capacity (A)	Power factor
63,80,100	1,2,3,4	230/400	6000	0.45 ~ 0.50



6. Tripping characteristic as shown on table 2

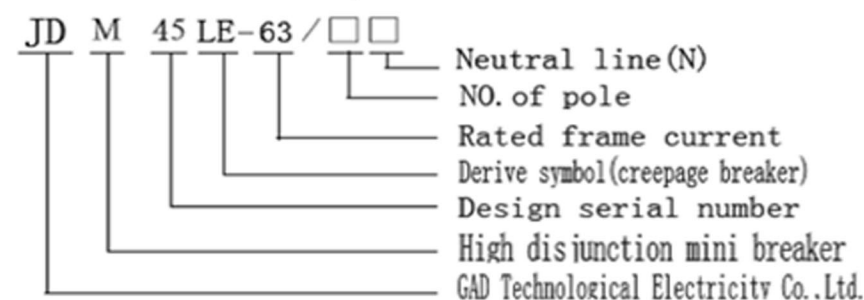
JDM45LE-63 Series

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Application

JDM45LE-63series leakage circuit breaker is suitable in the AC circuit of 50Hz, rated voltage up to 415V, rated current 6A-63A to protect against leakage, electric shock, overload and short circuit. Users can add the protective function of overload voltage if they need. This product is mainly used in lighting and electric motor distribution system. This product conforms to the requirement of GB16917 standards

Models with meaning

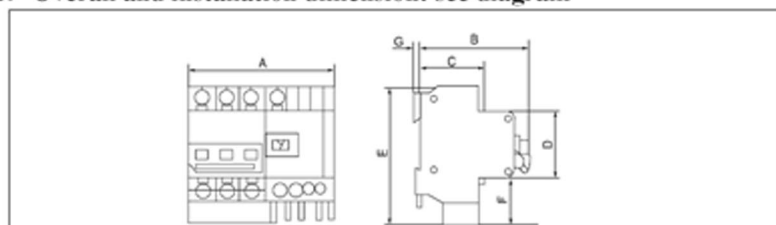


Features

Item	Type	JDM45LE-63/1N	JDM45LE-63/2	JDM45LE-63/3	JDM45LE-63/3N	JDM
Poles and wires		1N	Two poles and two lines	Three poles and three lines	Three poles and four lines	Fc and
Rated voltage Un(V)		Single-pole two-wire			220/380	
Rated frame current Inm(A)			63			
Rated current In(A)			6, 10, 16, 20, 25, 32, 40, 50, 63			
Rated leakage action current $\Delta n(A)$			0.03, 0.05, 0.1			
Rated leakage non-action current $\Delta n_0(A)$			$\frac{1}{2} I \Delta n$			
Breaking time(s)			< 0.1			
Rated short make-break capability(A)(cos $\phi=0.7$)			6000			
Mechanism and electric life			> 20000			
Release action features	Delay time		1.13In > 1h Non- trip			
			1.45In < 1h Trip			
			2.55In 1 ~ 120S Trip			
	Instantaneous		5In > 0.1S Non- trip			
			10In < 0.1S Trip			

Shape and Installation Dimension

- The installation adopts TH35-7.5 mounting guide.
- Overall and installation dimension: see diagram



Type	Shape Dimension						
	A	B	C	D	E	F	G
JDM45LE-63/12	45	72	45.5	45.5	95	32	5.5
JDM45LE-63/22	62.5	72	45.5	45.5	95	32	5.5
JDM45LE-63/33	90	72	45.5	45.5	95	32	5.5
JDM45LE-63/34	99	72	45.5	45.5	95	32	5.5
JDM45LE-63/44	118	72	45.5	45.5	95	32	5.5



JDM45-100 Series



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Table 2

Ambient temperature	I/In	Test time, appointed result		I/In	Test time, appointed result	Intiap state
		In < 63A	In > 63A		In < 100A	
40 ± 2℃	1.05(C)	> 1h no trip	> 2h no trip	1.0D	>2h no trip	Cold state
	1.30(C)	<1h trip	<2h trip	1.2D	< 2h trip	Hot state
	3.0(C)	Return time 3s	Return time 5s	7.2D	>2s	Hot state
-5 ~ 45℃	8.0~12.0(C)	<0.2s trip				Cold state
	10.0~14.0(D)	< 0.2s trip				

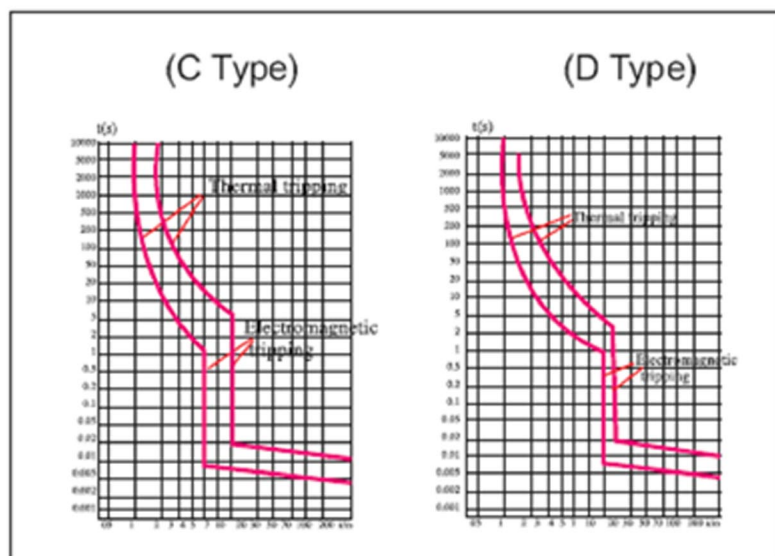
7. Voltage endure rate: besides the humid hotness resistant, this breaker can endure 2500V.

8. Mechanical and electrical life: the mechanical electrical life is 20000times, and electrical life is 6000times.

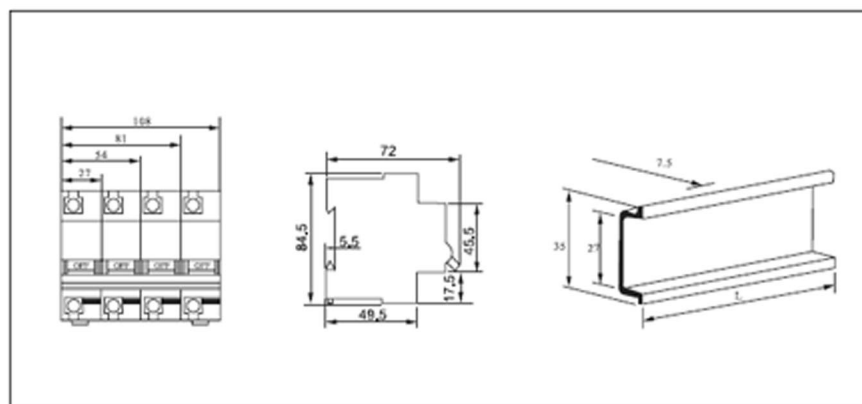
9. Humid hotness resistant:2 types (relative humidity is 95% at 55℃)

10. Connection: using the connection terminal with clip, the section of fixed cable can up to 50mm²

11. TuoKou Characteristic Curve



Shape and Installation Dimension



JDM45LE-100 Series

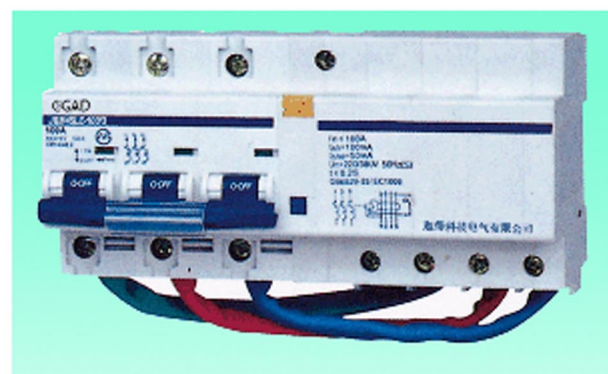
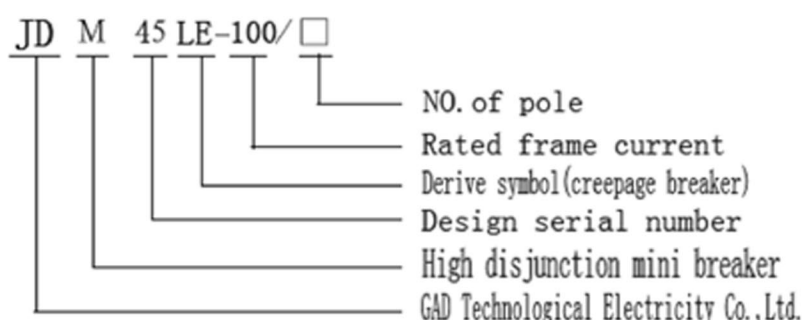


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Application

JDM45LE-100 series breaker is suitable for the circuit line of AC 50Hz (60Hz), rated voltage is 230/400V and rated current 63A-100A, and provides the protective function of earth leakage, overload and short circuit. The function also can be added according to the demand of users, which is mainly used for protecting building illumination and distribution system.

Models with meaning



Technology parameter

Rated voltage (V)	Rated frame current (A)	Poles and wires (P)	Rated current (A)	Rated short make-break capability		Rated leakage action current $I_{\Delta n}$ (mA)	Rate earth leakage non-action current $I_{\Delta no}$ (mA)	Rated leakage action time (S)	Release type
				Break capability I_{cu} (A)	$\cos \phi$				
230/400	100	1+N	63	6000	0.5	30	15	< 0.1	C
230/400	100		80	6000	0.5			< 0.1	C
230/400	100		100	6000	0.5			< 0.1	C
400	100	3	63	6000	0.5	100	50	< 0.1	D
230/400	100	3+N	80	6000	0.5			< 0.1	D
230/400	100		100	6000	0.5			< 0.1	D

Notice: ① Rated earth leakage action current: 30mA, 50mA, 100mA, 200mA, 300mA

② Using the connecting terminal with clip can connect the hard cable 50mm² or below.

Shape and Installation Dimension

1P+N: 27+54
2P: 54+54
3P: 81+72
3P+N: 81+90
4P: 108+90

