

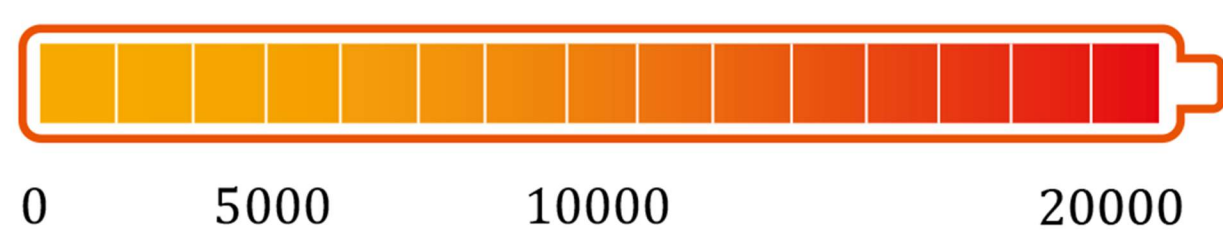
New 6 Series | CDB6i

Miniature Circuit Breaker

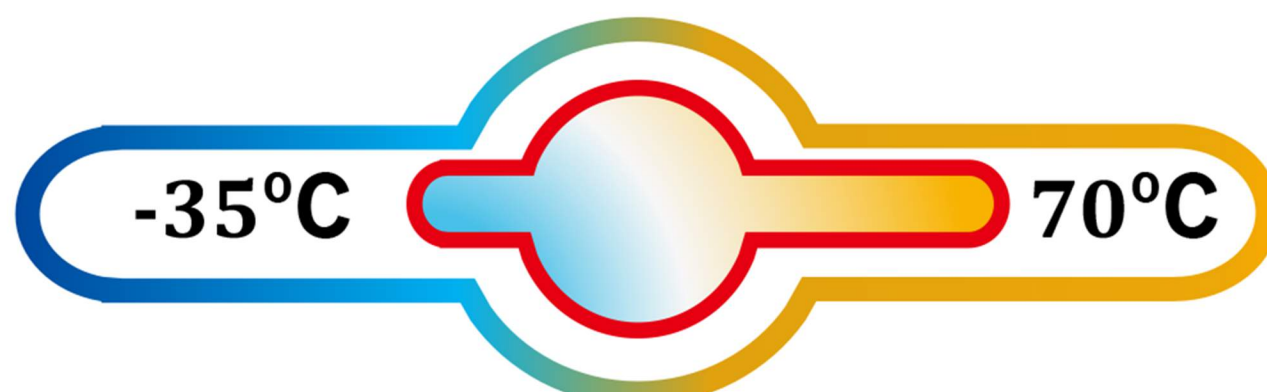
DELIXI



Độ bền cơ học cao (lần)



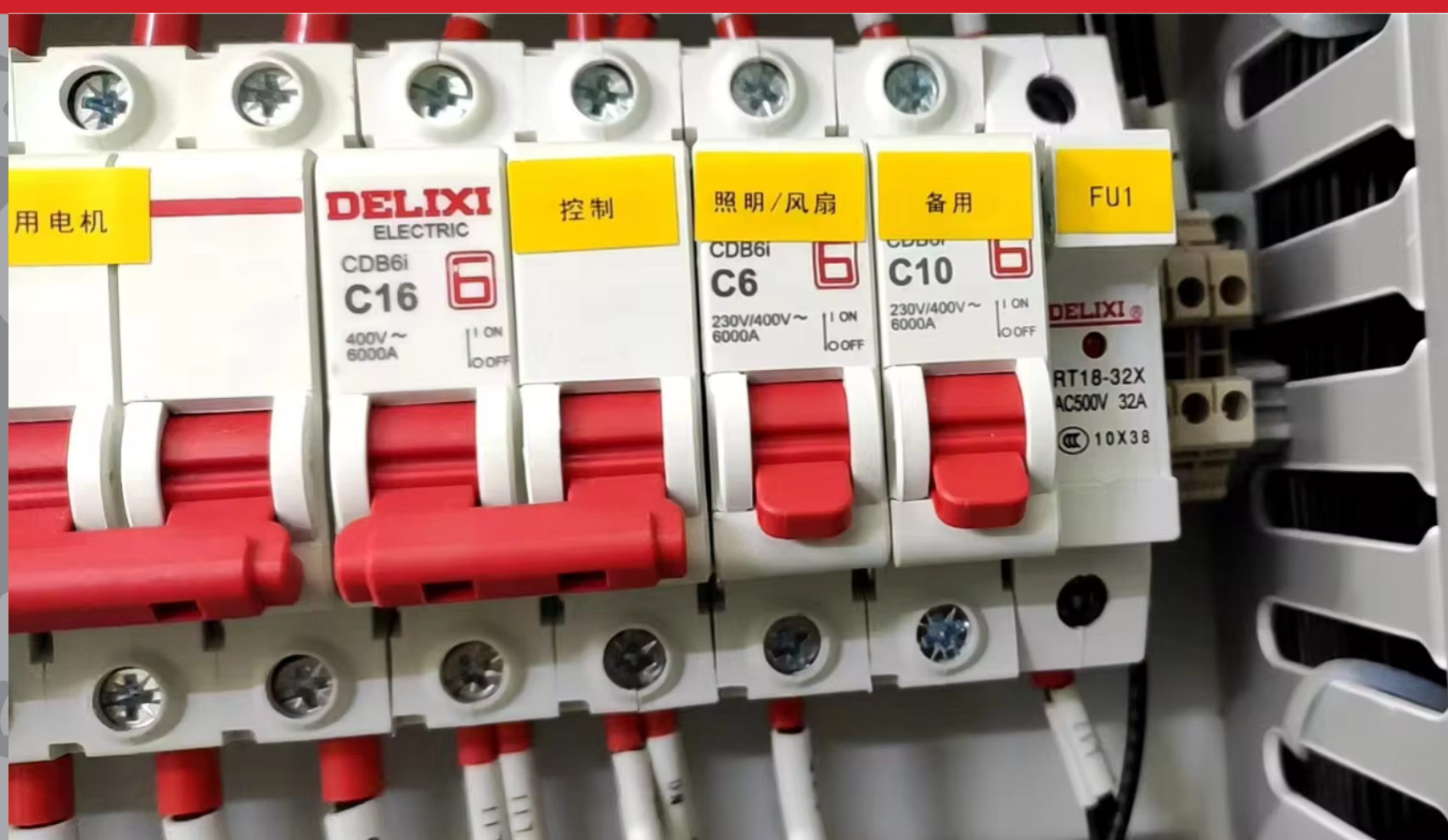
Dải nhiệt độ làm việc rộng



D

DELIXI

ELECTRIC



Low Voltage Electrical Appliances



“ Delixi Electric Easy Electric ”

Delixi Electric: Who are we



A global company at your service

Delixi was founded in 1984 in Zhejiang province with sales over 1.5BM€, employing more than 15000 people.

Delixi created an international Joint Venture in November 2007, named Delixi Electric Ltd., in order to serve you worldwide, with core LV products having the right quality at the right price.

Our products are designed for Residential/Building/Energy/infrastructure and Industrial markets. Delixi Electric employs 5200 people world wide.

A reliable company serving you with reliable product



- Dedicated R&D center
- International quality control of suppliers
- International quality control of plants

- Fully automatized distribution center
- Network of recognized 600 distributors world wide






CDB6i Miniature circuit breaker

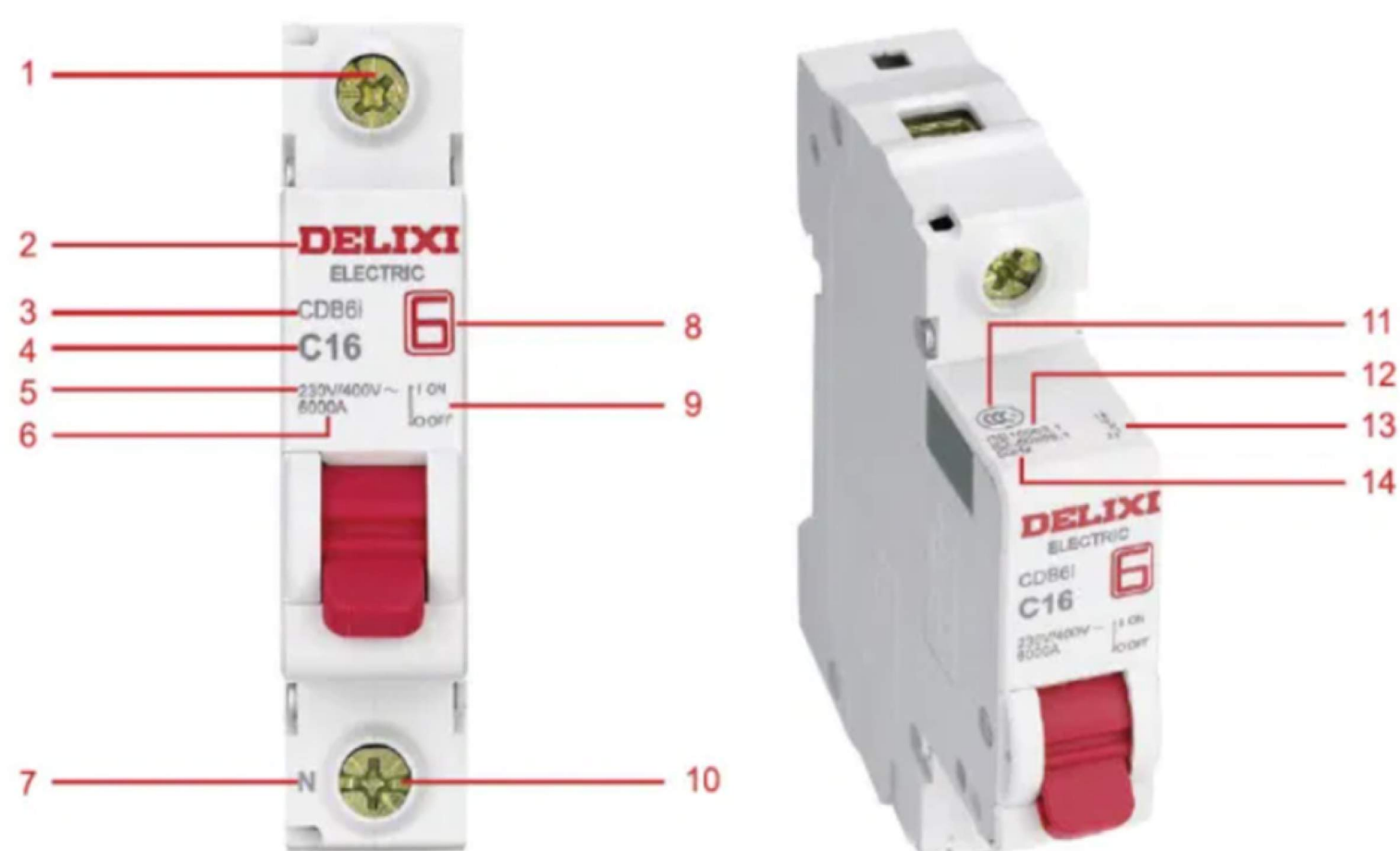
CDB6i Miniature circuit breaker has the following functions

- Short-circuit protection
- Over-load protection
- Isolation protection

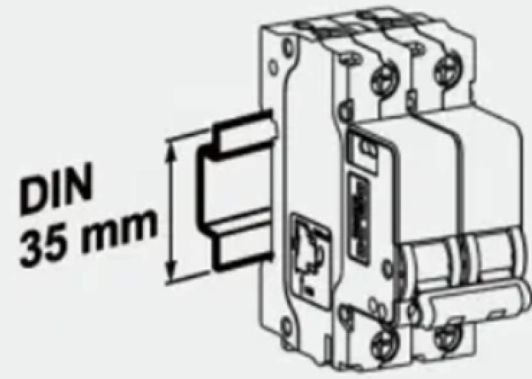
Main features

Rated operating voltage(V)	1P: 230/400 AC
	1P+N: 230 AC
	2P,3P,3P+N,4P: 400 AC
Rated current(A)	1, 2, 3, 4, 5, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 63
Frequency (Hz)	50
Poles	1P,1P+N,2P,3P,3P+N,4P
Breaking capacity (kA)	6
Trip curve	B, C, D type
Characteristic	No
Current specification	*B type no 1A, 2A, 3A, 4A, 5A; 1P+N, 3P+N type no 1A, 2A, 3A, 4A, 5A, 6A, 8A
Standard	GB 10963.1, IEC/EN60898-1
Certification	   RoHS

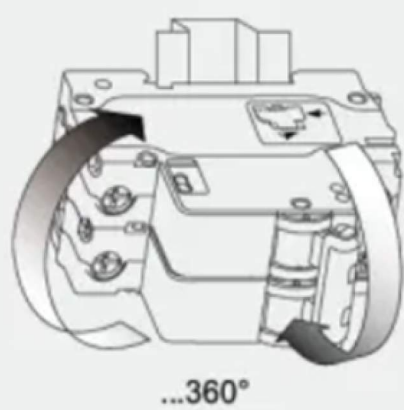
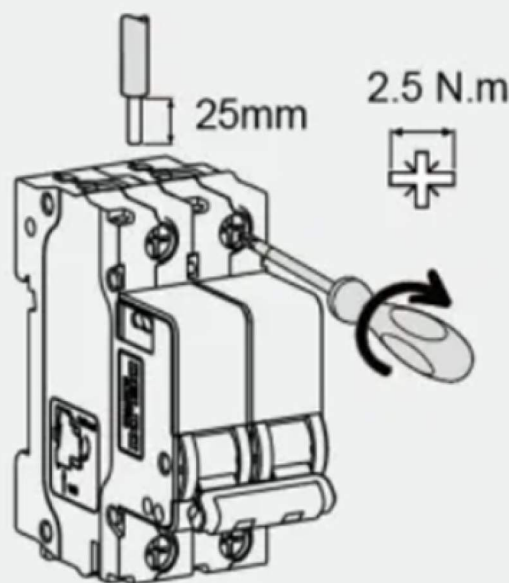
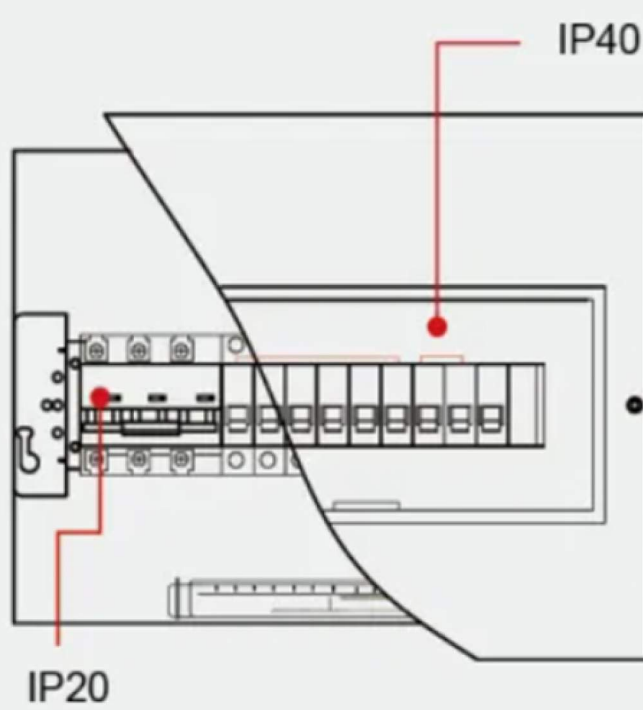
Product Detail Display



- 1.Power terminal
- 2.Logo
3. Model
- 4.Current specification (trip type + rated current)
- 5.Rated voltage
- 6.Breaking capacity
- 7.N pole indication (1P+N, 3P+N)
- 8.Design Number
- 9.On-off indication
- 10.Load
- 11.Certification
- 12.Standard
- 13.Wiring schematic
14. Rated frequency



Installed on 35mm standard Din-rail



Flexible Installation direction

Electrical Characteristics

Nominal insulation voltage U_i (V)	250 (phase to earth)/500 (phase to phase)
Rated operating voltage U_e (V)	1P: 230/400AC 1P+N: 230AC
	2P, 3P, 4P, 3P+N: 400AC
	1P: 60 DC
Rated short circuit capability I_{cn} (IEC/EN 60898-1) (KA)	6
Rated impulse withstand voltage U_{imp} (1.2/50) (kA)	4
Dielectric test voltage	2kV(45~65Hz, 1 mins)
Utilization Category	A
Isolation function	Yes
Pollution class	2
Trip type	Thermal magnetic trip
Thermal magnetic tripping characteristics	
B-type curve(3In~5In)	■
C-type curve(5In~10In)	■
D-type curve(10In~14In)	■
Electrical and mechanical accessories	■

Mechanical Characteristics

Handle	Red
On-off indication	ON-OFF indication
Mechanical life(times)	20000
Electrical life (times)	10000
Protection degree	Installed in distribution box IP40
	Installation directly IP20
Mechanical shock resistance	30g 3shocks,lasting 11ms (no significant vibration and shock)
Anti-vibration(IEC/EN 60068-2-6)	No significant vibration and shock
Damp and hot resistance(IEC 60068-2)	Class 2, 28 cycles
Damp and hot(°C /RH)	Relative humidity 90%-96% at 55 °C
	Relative humidity 95%-100% at 25 °C
Baseline ambient temperature	30°C
Ambient temperature (daily average temperature $\leq +35^\circ\text{C}$)	-35°C ~+70°C
Storage temperature	-40°C ~+70°C

Installation Characteristics

Terminal form	U terminal
Maximum wiring capability (A)	Current level 1-63: 25mm ²
Maximum limit torque (A)	Current level 1-63: 2.5N.m
Tool	Phillips screwdriver or slotted screwdriver
Installation	Mounted on standard Din rail (35mm)
Incoming type	Top or bottom

Tripping characteristics

B type

B tripping characteristics miniature circuit breakers comply with the GB 10963.1 IEC60898 standard and are suitable for protecting resistive loads or loads without inrush current.

C type

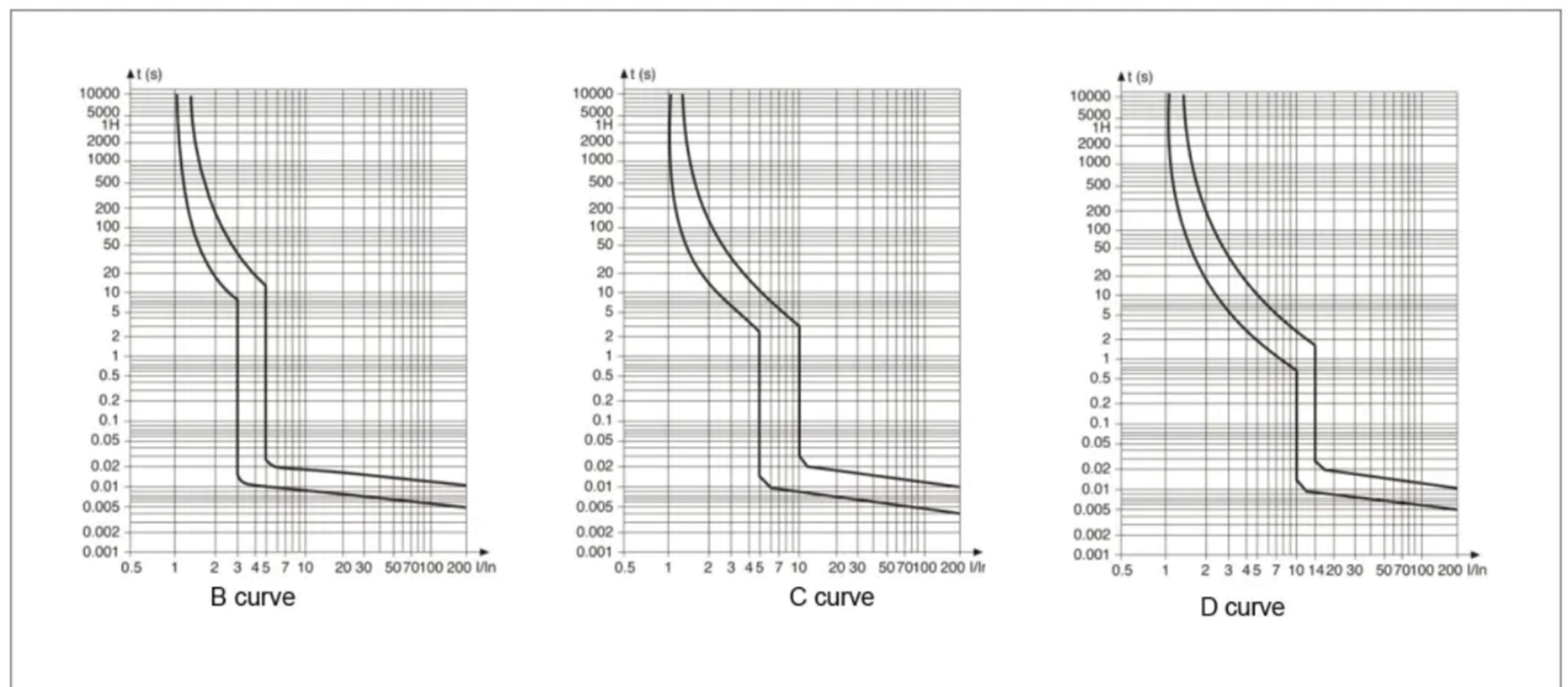
C tripping characteristics miniature circuit breakers comply with GB 10963.1 IEC60898 standard and are suitable for protecting inductive loads with resistive loads or low inrush current.

D type

D tripping characteristics miniature circuit breaker complies with the GB 10963.1 IEC60898 standard and is suitable for protecting loads with high inrush current when the line is connected.

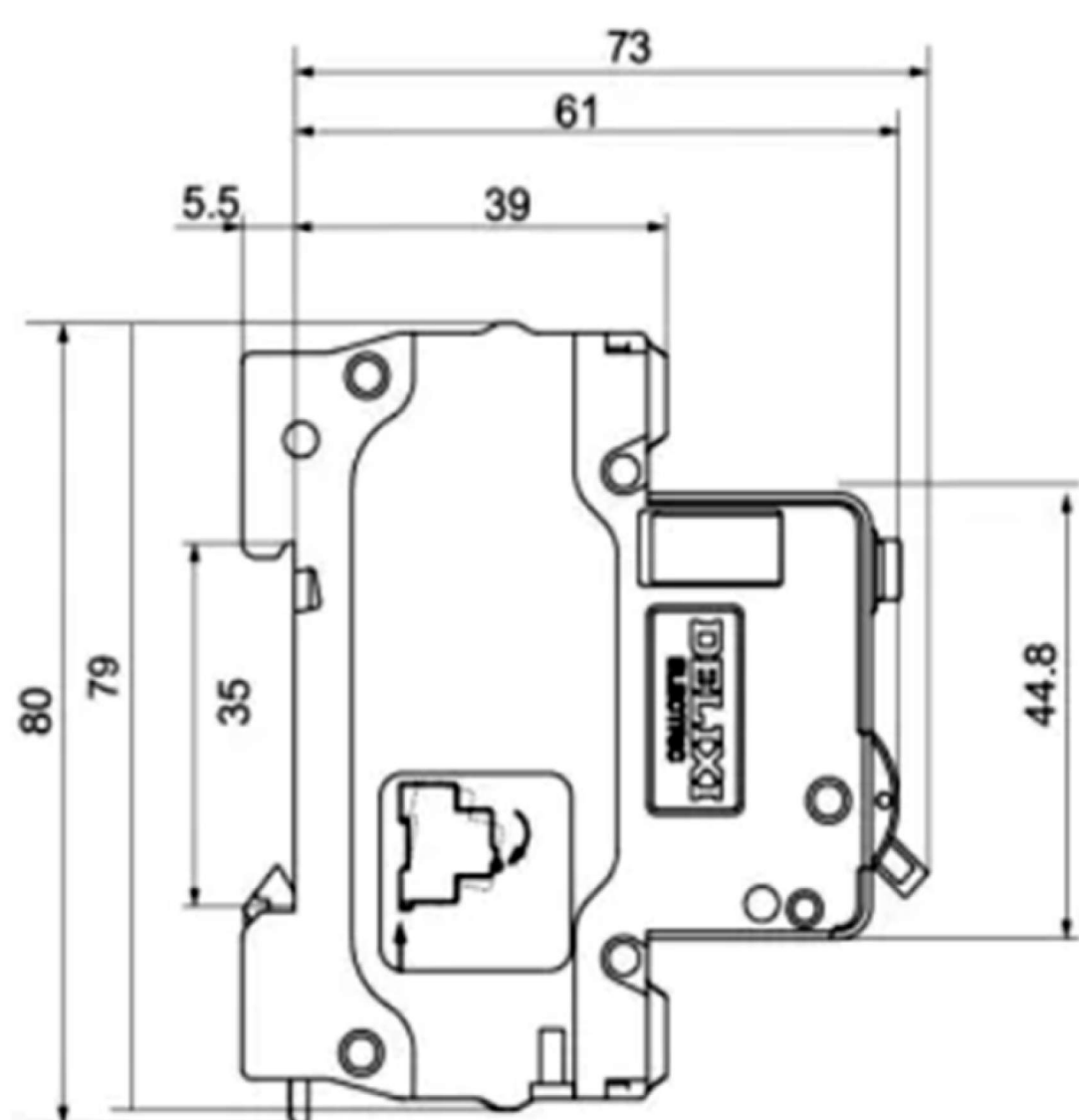
Trip type	Standard	Thermal tripping characteristics				Electromagnetic tripping characteristics			
		Test current	Test time	Starting state	Result	Test current AC	Test time	Starting state	Result
B	IEC60898-1 GB10963.1	1.13I _n	≤ 1h (≤ 63A) ≤ 2h (>63A)	Cold	No trip	3I _n	≤ 0.1s	Cold	No trip
		1.45I _n	<1h (≤ 63A) <2h (>63A)	Hot	Trip	5I _n	<0.1s		Trip
C	IEC60898 GB10963.1	1.13I _n	≤ 1h (≤ 63A) ≤ 2h (>63A)	Cold	No trip	5I _n	≤ 0.1s		No trip
		1.45I _n	<1h (≤ 63A) <2h (>63A)	Hot	Trip	10I _n	<0.1s		Trip
D	IEC60898-1 GB10963.1	1.13I _n	≤ 1h (≤ 63A) ≤ 2h (>63A)	Cold	No trip	10I _n	≤ 0.1s		No trip
		1.45I _n	<1h (≤ 63A) <2h (>63A)	Hot	Trip	14I _n	<0.1s		Trip

Tripping curve



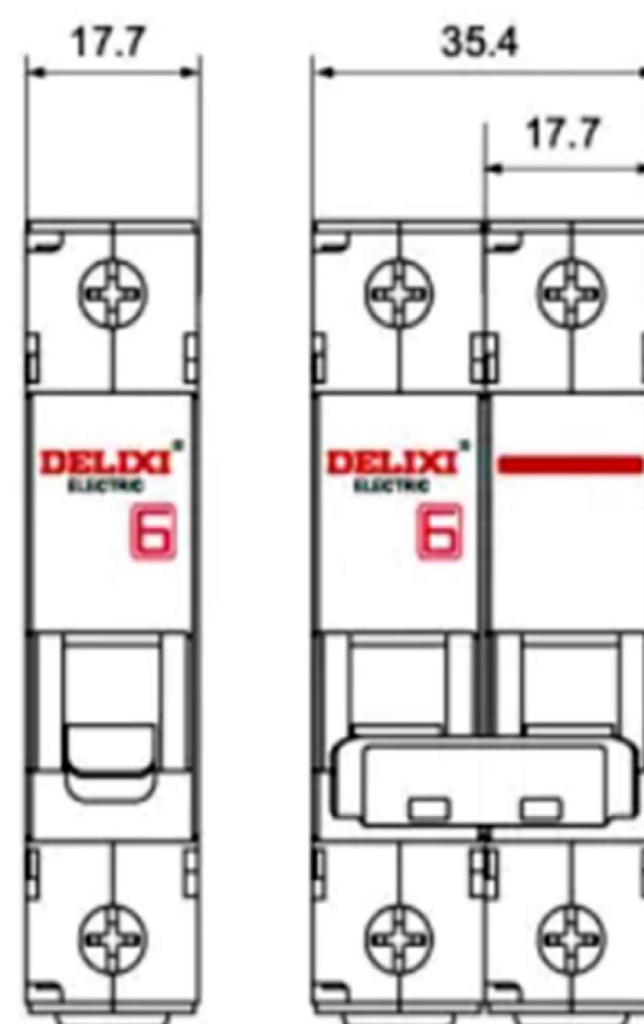
CDB6i Miniature Circuit Breaker

1P Left view



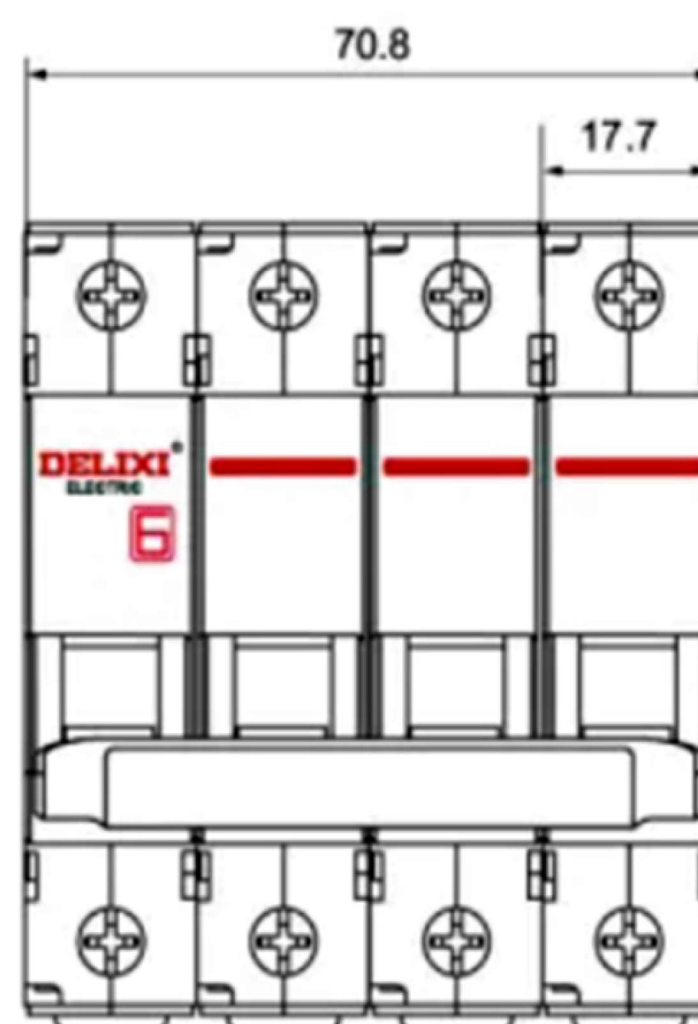
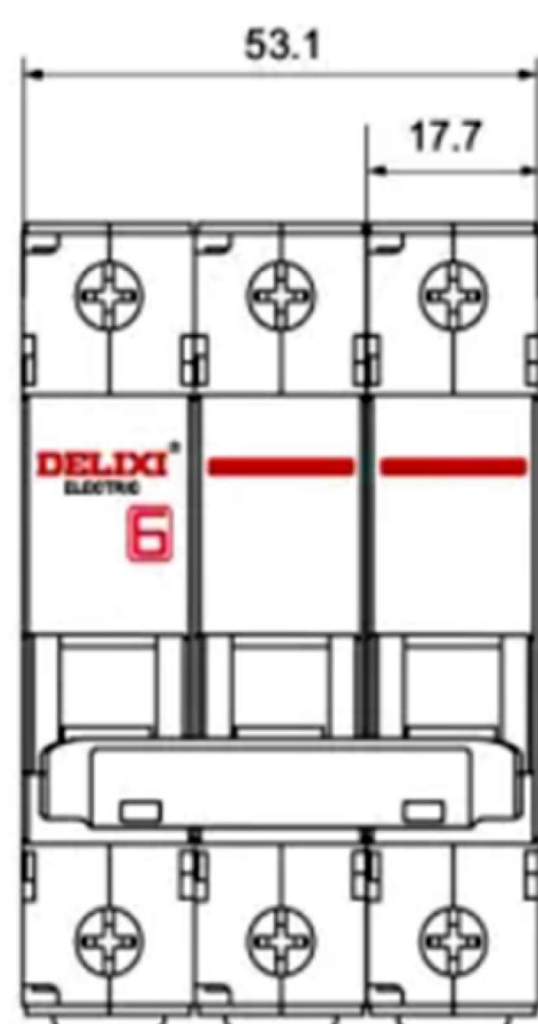
1P

1P+N,2P



3P




3P+N,4P



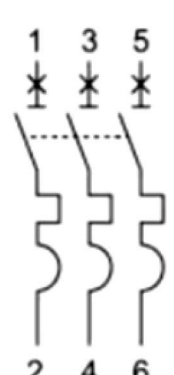
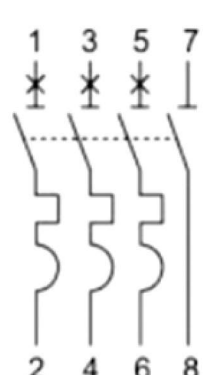
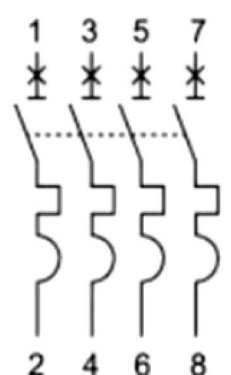
Selection Guide Order Selection and Code

CDB6i Miniature circuit breaker

Model	Pole	Trip type	Rated Current
CDB6i	1	C	6
	1: 1P 2: 2P 3: 3P 4: 4P 5: 1P+N 6: 3P+N	B: B type C: C type D: D type	1: 1A 13: 13A 2: 2A 16: 16A 3: 3A 20: 20A 4: 4A 25: 25A 5: 5A 32: 32A 6: 6A 40: 40A 8: 8A 50: 50A 10:10A 63: 63A

CDB6i	Pole	Rated current	Trip type				
			B	C	D		
<p>1P</p> 		1	-	CDB6i1C1	CDB6i1D1		
		2	-	CDB6i1C2	CDB6i1D2		
		3	-	CDB6i1C3	CDB6i1D3		
		4	-	CDB6i1C4	CDB6i1D4		
		5	-	CDB6i1C5	CDB6i1D5		
		6	CDB6i1B6	CDB6i1C6	CDB6i1D6		
		8	CDB6i1B8	CDB6i1C8	CDB6i1D8		
		10	CDB6i1B10	CDB6i1C10	CDB6i1D10		
		13	CDB6i1B13	CDB6i1C13	CDB6i1D13		
		16	CDB6i1B16	CDB6i1C16	CDB6i1D16		
		20	CDB6i1B20	CDB6i1C20	CDB6i1D20		
		25	CDB6i1B25	CDB6i1C25	CDB6i1D25		
		32	CDB6i1B32	CDB6i1C32	CDB6i1D32		
		40	CDB6i1B40	CDB6i1C40	CDB6i1D40		
		50	CDB6i1B50	CDB6i1C50	CDB6i1D50		
		63	CDB6i1B63	CDB6i1C63	CDB6i1D63		
		<p>1P+N</p> 		10	CDB6i5B10	CDB6i5C10	CDB6i5D10
				13	CDB6i5B13	CDB6i5C13	CDB6i5D13
				16	CDB6i5B16	CDB6i5C16	CDB6i5D16
20	CDB6i5B20			CDB6i5C20	CDB6i5D20		
25	CDB6i5B25			CDB6i5C25	CDB6i5D25		
32	CDB6i5B32			CDB6i5C32	CDB6i5D32		
40	CDB6i5B40			CDB6i5C40	CDB6i5D40		
50	CDB6i5B50	CDB6i5C50	CDB6i5D50				
63	CDB6i5B63	CDB6i5C63	CDB6i5D63				
<p>2P</p> 		1	-	CDB6i2C1	CDB6i2D1		
		2	-	CDB6i2C2	CDB6i2D2		
		3	-	CDB6i2C3	CDB6i2D3		
		4	-	CDB6i2C4	CDB6i2D4		
		5	-	CDB6i2C5	CDB6i2D5		
		6	CDB6i2B6	CDB6i2C6	CDB6i2D6		
		8	CDB6i2B8	CDB6i2C8	CDB6i2D8		
		10	CDB6i2B10	CDB6i2C10	CDB6i2D10		
		13	CDB6i2B13	CDB6i2C13	CDB6i2D13		
		16	CDB6i2B16	CDB6i2C16	CDB6i2D16		
		20	CDB6i2B20	CDB6i2C20	CDB6i2D20		
		25	CDB6i2B25	CDB6i2C25	CDB6i2D25		
		32	CDB6i2B32	CDB6i2C32	CDB6i2D32		
		40	CDB6i2B40	CDB6i2C40	CDB6i2D40		
50	CDB6i2B50	CDB6i2C50	CDB6i2D50				
63	CDB6i2B63	CDB6i2C63	CDB6i2D63				

CDB6i Miniature circuit breaker


CDB6i	Pole	Rated current	Trip type				
			B	C	D		
	3P	1	-	CDB6i3C1	CDB6i3D1		
		2	-	CDB6i3C2	CDB6i3D2		
		3	-	CDB6i3C3	CDB6i3D3		
		4	-	CDB6i3C4	CDB6i3D4		
		5	-	CDB6i3C5	CDB6i3D5		
		6	CDB6i3B6	CDB6i3C6	CDB6i3D6		
		8	CDB6i3B8	CDB6i3C8	CDB6i3D8		
		10	CDB6i3B10	CDB6i3C10	CDB6i3D10		
		13	CDB6i3B13	CDB6i3C13	CDB6i3D13		
		16	CDB6i3B16	CDB6i3C16	CDB6i3D16		
		20	CDB6i3B20	CDB6i3C20	CDB6i3D20		
		25	CDB6i3B25	CDB6i3C25	CDB6i3D25		
		32	CDB6i3B32	CDB6i3C32	CDB6i3D32		
		40	CDB6i3B40	CDB6i3C40	CDB6i3D40		
		50	CDB6i3B50	CDB6i3C50	CDB6i3D50		
		63	CDB6i3B63	CDB6i3C63	CDB6i3D63		
			3P+N	10	CDB6i6B10	CDB6i6C10	CDB6i6D10
				13	CDB6i6B13	CDB6i6C13	CDB6i6D13
				16	CDB6i6B16	CDB6i6C16	CDB6i6D16
				20	CDB6i6B20	CDB6i6C20	CDB6i6D20
25	CDB6i6B25			CDB6i6C25	CDB6i6D25		
32	CDB6i6B32			CDB6i6C32	CDB6i6D32		
40	CDB6i6B40			CDB6i6C40	CDB6i6D40		
50	CDB6i6B50			CDB6i6C50	CDB6i6D50		
63	CDB6i6B63			CDB6i6C63	CDB6i6D63		
	4P			1	-	CDB6i4C1	CDB6i4D1
		2	-	CDB6i4C2	CDB6i4D2		
		3	-	CDB6i4C3	CDB6i4D3		
		4	-	CDB6i4C4	CDB6i4D4		
		5	-	CDB6i4C5	CDB6i4D5		
		6	CDB6i4B6	CDB6i4C6	CDB6i4D6		
		8	CDB6i4B8	CDB6i4C8	CDB6i4D8		
		10	CDB6i4B10	CDB6i4C10	CDB6i4D10		
		13	CDB6i4B13	CDB6i4C13	CDB6i4D13		
		16	CDB6i4B16	CDB6i4C16	CDB6i4D16		
		20	CDB6i4B20	CDB6i4C20	CDB6i4D20		
		25	CDB6i4B25	CDB6i4C25	CDB6i4D25		
		32	CDB6i4B32	CDB6i4C32	CDB6i4D32		
		40	CDB6i4B40	CDB6i4C40	CDB6i4D40		
		50	CDB6i4B50	CDB6i4C50	CDB6i4D50		
		63	CDB6i4B63	CDB6i4C63	CDB6i4D63		

CDB6i-125 Molded Case Circuit Breaker

CDB6i-125 Molded Case Circuit Breaker has The Following Features

- Short circuit protection
- Overload protection
- Isolating function

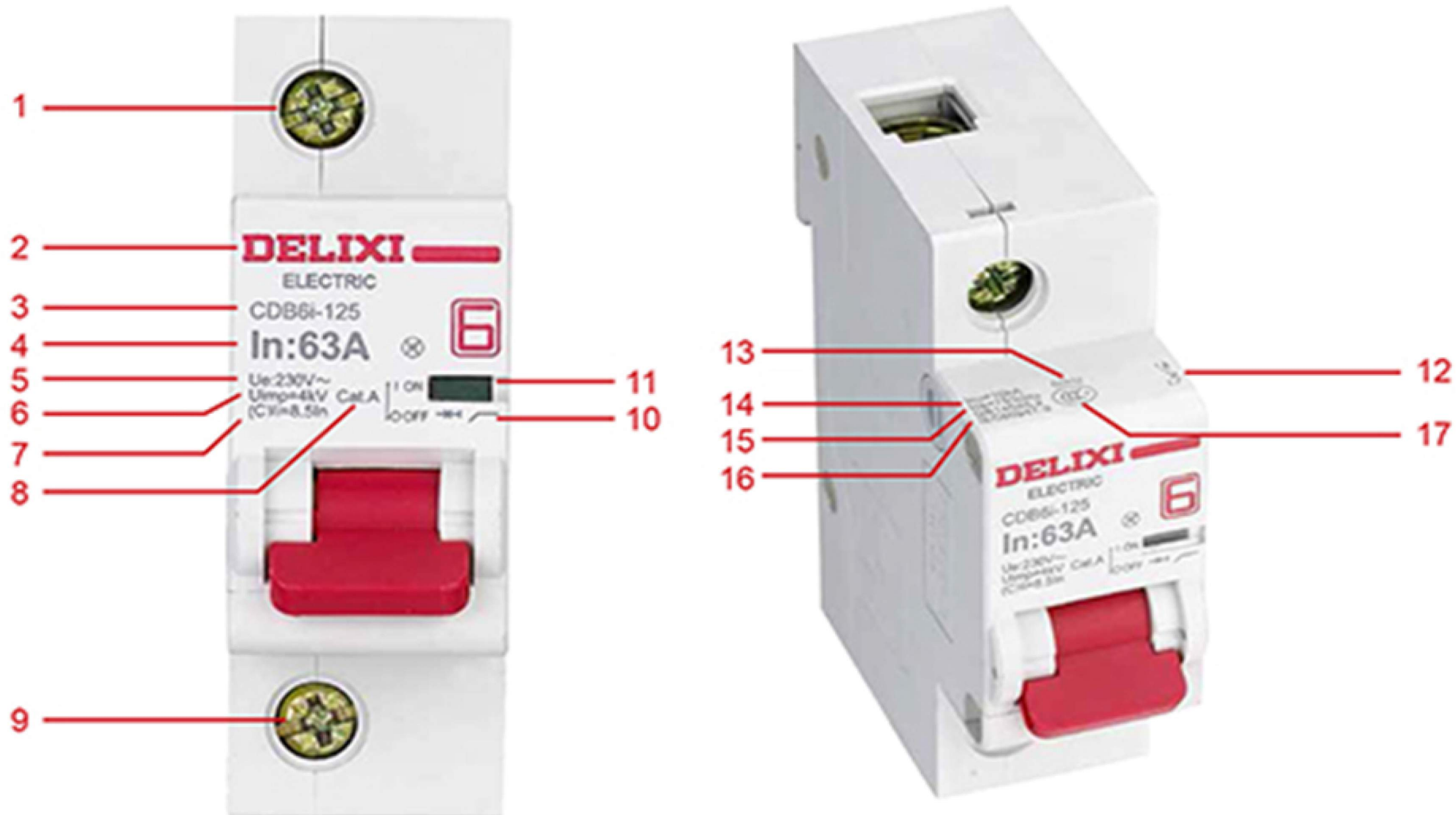
Main Features

Rated operating voltage (V)	1P:230 AC/80 DC 2P,3P,4P:400 AC (2P:125 DC)
Rated current (A)	63-125
Rated frequency (Hz)	50
Poles	1P,2P,3P,4P
Breaking capacity (kA)	10
Standard	GB/T 14048.2, IEC60947-2
Certification	

* RoHS-compliant products, with a separate material number, under the order please pay attention to choose

* RoHS-compliant products in order to meet the CE certification

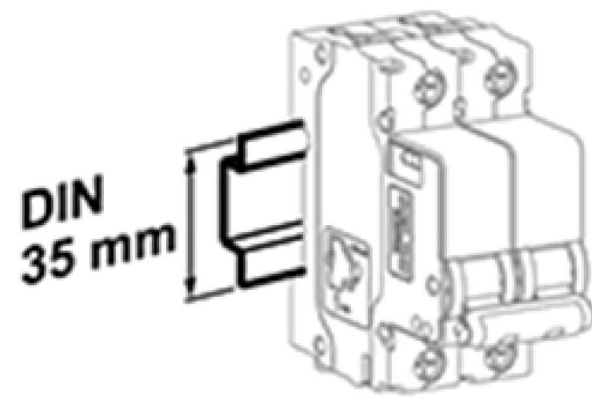
Product Details Display



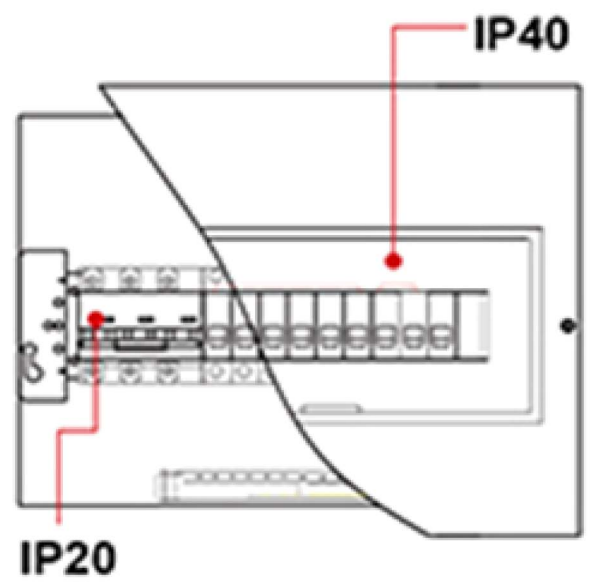
Description:

- | | | |
|---|--|----------------------|
| 1、 Power terminal | 2、 The company trademark | 3、 Product model |
| 4、 Rated current: 63,80,100,125A | 5、 Ted voltage: 230V (1P) / 400V | |
| 6、 Rated impact withstand voltage | 7、 Rated current: (C) I=8.5 in (for power distribution protection) | |
| 8、 Use category | 9、 Load terminal | 10、 Isolation symbol |
| 11、 Contact indication | 12、 Wiring schematic Diagram | 13、 Rated frequency |
| 14、 Rated limit short circuit breaking capacity | 15、 Rated operating short circuit breaking capacity | |
| 16、 Rated standard | 17、 Certification mark | |

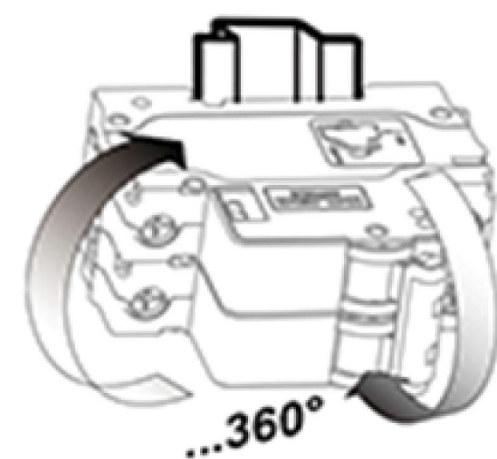
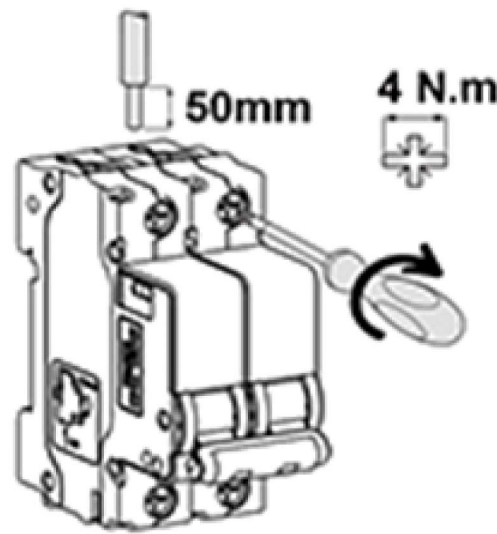
CDB6i-125 Molded Case Circuit Breaker



Installed on 35mm standard guide rail



IP20



Flexible installation direction

Electrical Characteristics

Rated insulation voltage U_i	(V)	250 (phase-to-ground) / 500 (phase-to-phase)
Rated operating voltage U_e	1P (V)	230 AC/80 DC
	2P,3P,4P	400 AC (2P: 125 DC)
Rated short-circuit capacity I_{cn} (IEC/EN60898-1)	(KA)	10
Rated impulse withstand voltage $U_{imp}(1.2/50)$	(KV)	4
Dielectric test voltage		2kV (50Hz 1 minute)
Isolating function		Available
Pollution class		2
Tripping type		Thermal magnetic tripping
Thermal magnetic trip characteristics		<input checked="" type="checkbox"/>
	C curve ($I_i=8.5I_n$)	<input checked="" type="checkbox"/>
	D curve ($I_i=12I_n$)	<input checked="" type="checkbox"/>
Electrical and mechanical accessories		<input checked="" type="checkbox"/>

Mechanical characteristics

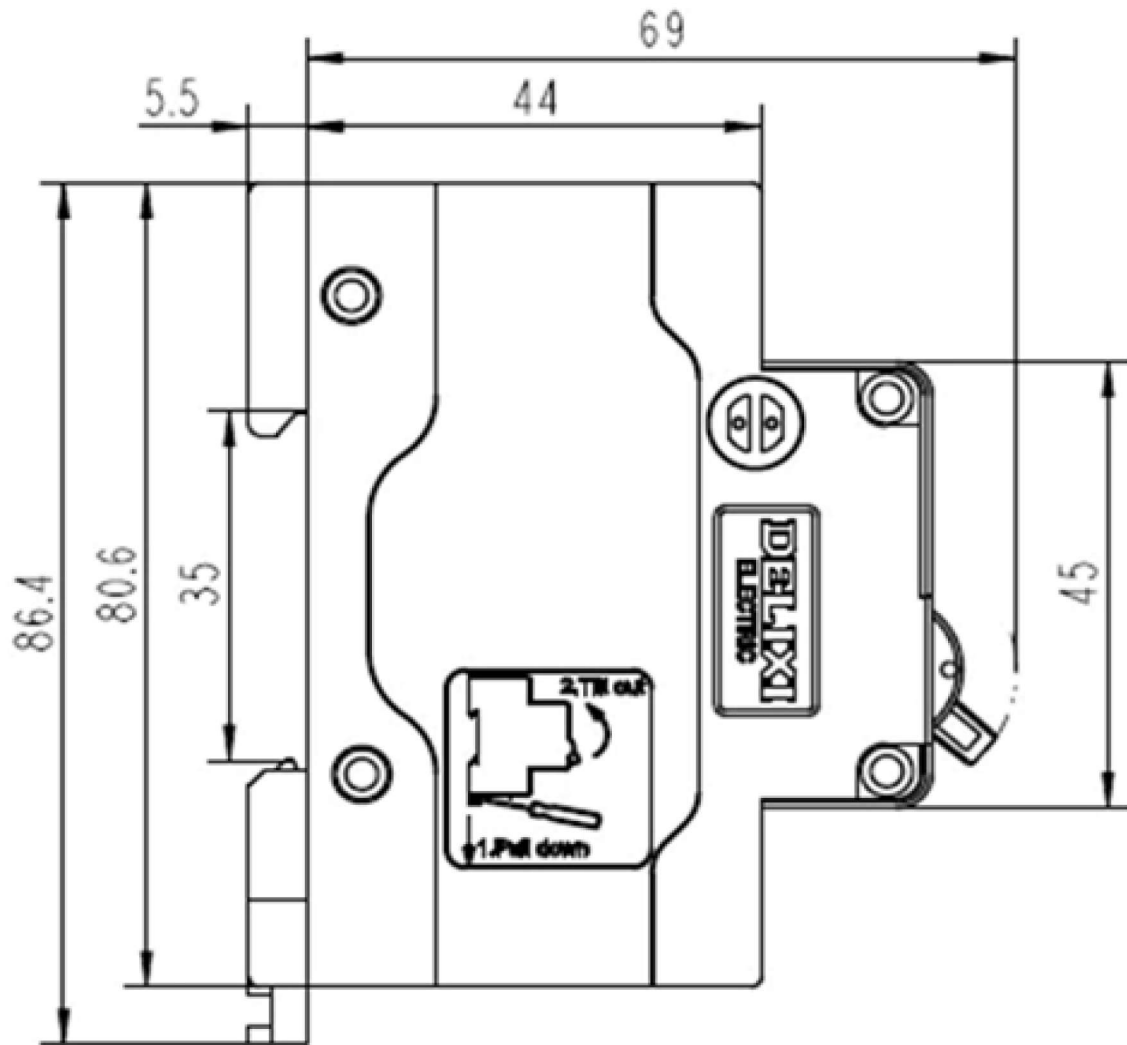
Handle		Red
Contact indication		Red Green indicates the on-off of the product
Mechanical life	Times	20000
Electrical life	Times	6000 times ($I_n \leq 100A$) 4000 times ($I_n > 100A$)
Protection rating	Installed in distribution box	IP40
	Installed directly	IP20
Anti-vibration (IEC/EN 60068-2-6)		Places with no significant vibration or shock
High temperature humidity resistant (IEC 60068-2)		Category 2, 28 cycles
High temperature humidity	°C /RH	Relative humidity 90%~96% at 55°C Relative humidity 95%~100% at 25°C
Reference ambient temperature	°C	30°C
Operating ambient temperature (daily mean temperature $\leq +35^\circ C$)	°C	-35°C~+70°C
Storage temperature	°C	-40°C~+70°C

Installation Features

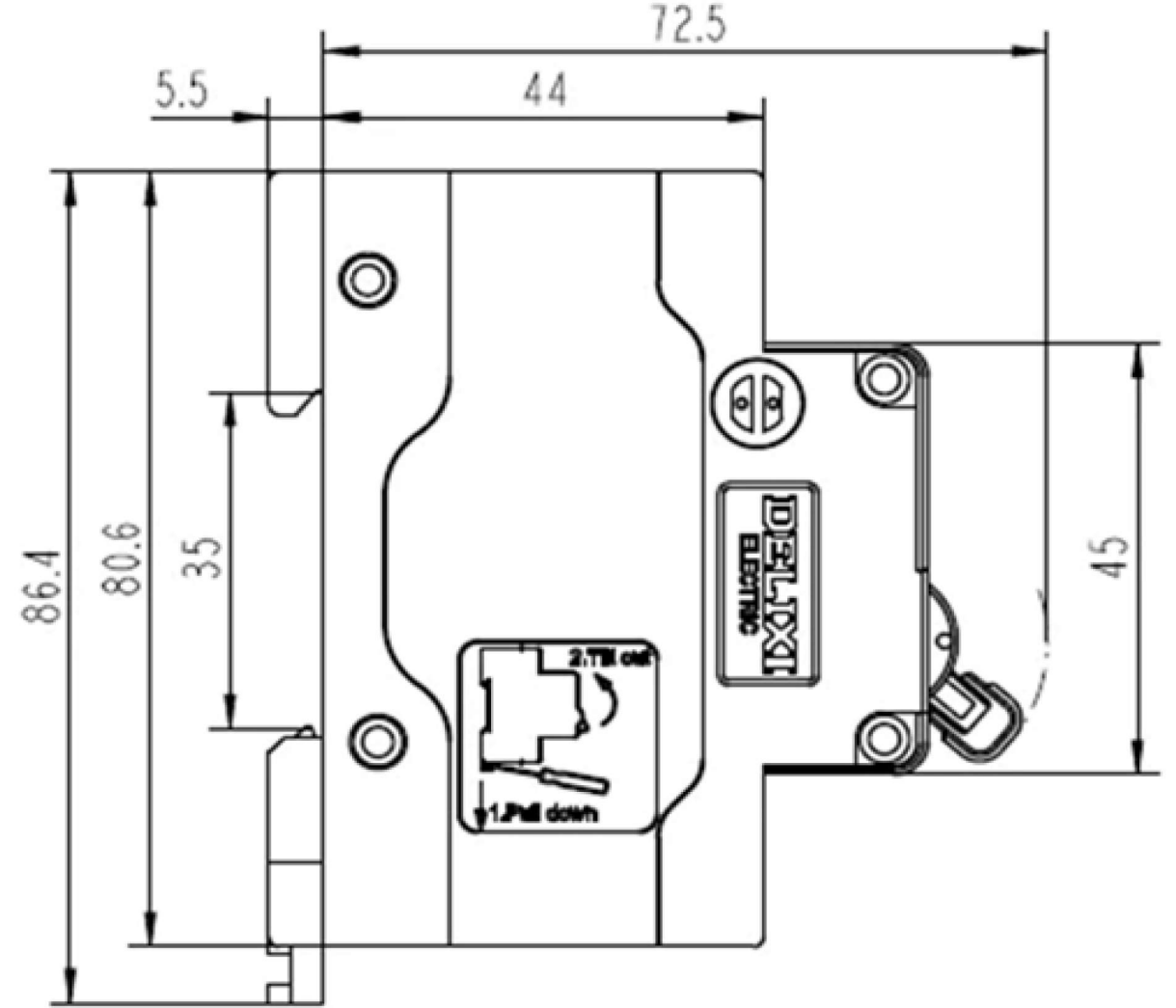
Terminal type		Tunnel terminal
Maximum wiring capacity	(A)	Current ratings 63-125:50mm ²
Maximum ultimate torque	(A)	Current ratings 63-125:3.5N.m
Tools		Cross head screwdriver or flathead screwdriver
Installation		Installed on standard DIN guide rail (35mm)
Line incoming mode		Top or bottom

Dimension : CDB6i-125 series (Miniature Circuit Breaker)

1P + N



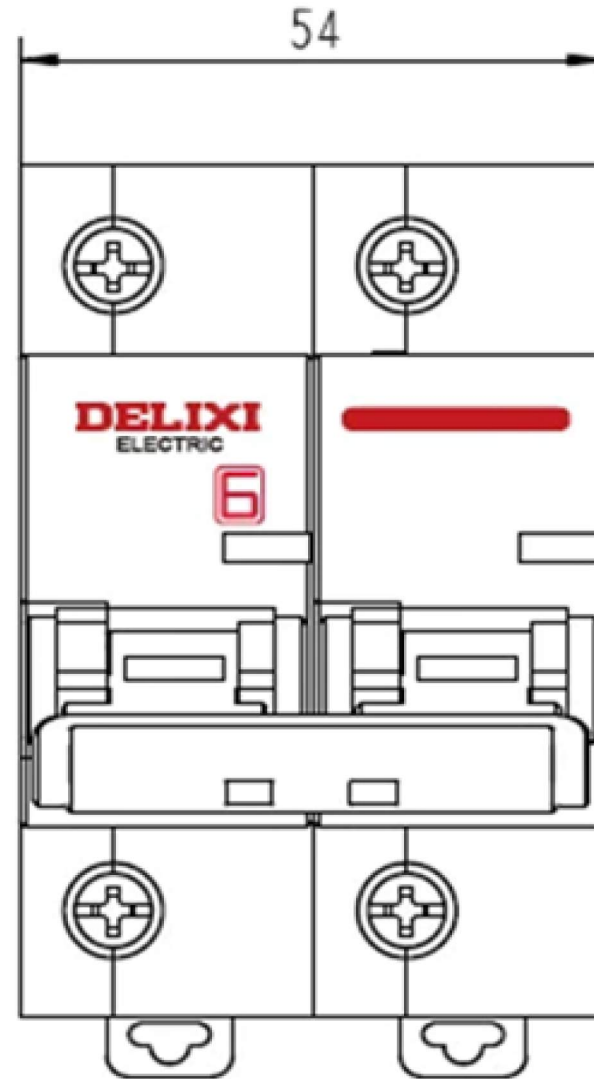
3P + N



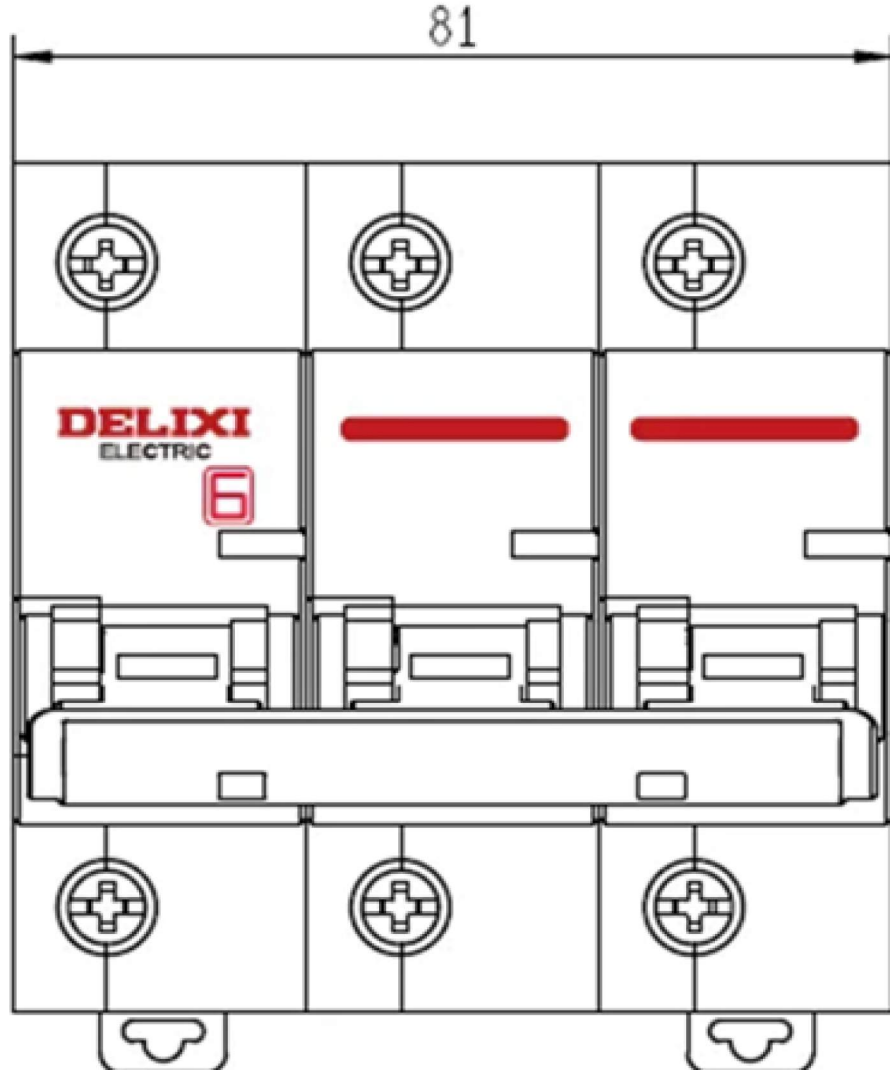
1P



2P



3P



4P

