

# HDB6 18mm Miniature Circuit Breaker

Standard: IEC 60898-1

Trip Curve: B, C and D curves

Breaking Capacity: 3000/4500/6000A




## Function

HDB6 miniature circuit breakers combine the following functions:

- Protection of circuits against overload currents
- Protection of circuits against short-circuit currents
- Control
- Isolation

## Order Information

Name	Breaking Capacity	Pole	Type	Rated current
HDB6	a: 3kA	1: 1P	B: B Curve	1: 1A
	L: 4.5kA	2: 2P	C: C Curve	3: 3A
	N: 6kA	3: 3P	D: D Curve	...
		4: 4P		63: 63A

Type	Breaking Capacity (kA)	Rating (A)	Width	Reference				
				B curve	C curve	D curve		
1P 	3	1	2	HDB6a1B1	HDB6a1C1	HDB6a1D1		
		3	2	HDB6a1B3	HDB6a1C3	HDB6a1D3		
		6	2	HDB6a1B6	HDB6a1C6	HDB6a1D6		
		10	2	HDB6a1B10	HDB6a1C10	HDB6a1D10		
		16	2	HDB6a1B16	HDB6a1C16	HDB6a1D16		
		20	2	HDB6a1B20	HDB6a1C20	HDB6a1D20		
		25	2	HDB6a1B25	HDB6a1C25	HDB6a1D25		
		32	2	HDB6a1B32	HDB6a1C32	HDB6a1D32		
		40	2	HDB6a1B40	HDB6a1C40	HDB6a1D40		
	50	2	HDB6a1B50	HDB6a1C50	HDB6a1D50			
	63	2	HDB6a1B63	HDB6a1C63	HDB6a1D63			
	4.5	1	2	HDB6L1B1	HDB6L1C1	HDB6L1D1		
	3	2	2	HDB6L1B3	HDB6L1C3	HDB6L1D3		
	6	2	2	HDB6L1B6	HDB6L1C6	HDB6L1D6		
	10	2	2	HDB6L1B10	HDB6L1C10	HDB6L1D10		
	16	2	2	HDB6L1B16	HDB6L1C16	HDB6L1D16		
	20	2	2	HDB6L1B20	HDB6L1C20	HDB6L1D20		
	25	2	2	HDB6L1B25	HDB6L1C25	HDB6L1D25		
	32	2	2	HDB6L1B32	HDB6L1C32	HDB6L1D32		
40	2	2	HDB6L1B40	HDB6L1C40	HDB6L1D40			
50	2	2	HDB6L1B50	HDB6L1C50	HDB6L1D50			
63	2	2	HDB6L1B63	HDB6L1C63	HDB6L1D63			
6	6	1	2	HDB6N1B1	HDB6N1C1	-		
		3	2	HDB6N1B3	HDB6N1C3	-		
		6	2	HDB6N1B6	HDB6N1C6	-		
		10	2	HDB6N1B10	HDB6N1C10	-		
		16	2	HDB6N1B16	HDB6N1C16	-		
		20	2	HDB6N1B20	HDB6N1C20	-		
		25	2	HDB6N1B25	HDB6N1C25	-		
		32	2	HDB6N1B32	HDB6N1C32	-		
		40	2	HDB6N1B40	HDB6N1C40	-		
		50	2	-	-	-		
		63	2	-	-	-		
		2P	3	1	4	HDB6a2B1	HDB6a2C1	HDB6a2D1
				3	4	HDB6a2B3	HDB6a2C3	HDB6a2D3
6	4			HDB6a2B6	HDB6a2C6	HDB6a2D6		
10	4			HDB6a2B10	HDB6a2C10	HDB6a2D10		
16	4			HDB6a2B16	HDB6a2C16	HDB6a2D16		
20	4			HDB6a2B20	HDB6a2C20	HDB6a2D20		
25	4			HDB6a2B25	HDB6a2C25	HDB6a2D25		
32	4			HDB6a2B32	HDB6a2C32	HDB6a2D32		
40	4			HDB6a2B40	HDB6a2C40	HDB6a2D40		
50	4			HDB6a2B50	HDB6a2C50	HDB6a2D50		
63	4			HDB6a2B63	HDB6a2C63	HDB6a2D63		



Note: Width refers to multiple of 9 mm.

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## Technical Data

MCB	HDB6 18mm Circuit Breaker				
Electrical Features	Standard	IEC60898-1			
	Certification	CB, CE, RoHS			
	Poles	1-4P			
	Rated Current In	1,3,6,10,16,20,25,32,40,50,63 A			
	Rated Voltage Ue	230/400V AC			
	Insulation Voltage Ui	500V			
	Breaking Capacity Icn				
	Rate current(A)	Breaking capacity Icn(kA)	Type	Poles	Voltage (V)
	1-63	3	B,C,D	1P 2P, 3P, 4P	230/400 400
	1-63	4.5	B,C,D	1P 2P, 3P, 4P	230/400 400
1-40	6	B,C	1P 2P, 3P, 4P	230/400 400	
50,63	4.5	B,C	1P 2P, 3P, 4P	230/400 400	
Tripping Curve(see following tripping curve pictures)					
B Curve:the magnetic release operates between 3 and 5 In					
C Curve:the magnetic release operates between 5 and 10 In					
D Curve:the magnetic release operates between 10 and 14 In					
Mechanical Features	Electrical Durability	4000 times			
	Mechanical Durability	10000 times			
	Protection Degree	2			
	Tropicalization	treatment 2			
	Ambient Temperature	-5°C ~ +40°C			
Connection	Up to 25mm <sup>2</sup> cables				
Installation	Rate Current(A)	Screw	Rated Torque (Nm)	Limiting Torque (Nm)	
	1-63	M5	2.5	4.5	
Mounting	35mm Din-rail				
Accessories	Contact Accessory	OF			
	Fault-indicating Accessories	SD			
	Shunt -trip release	MX+OF			

Final Distribution

# HDB6 18mm Miniature Circuit Breaker

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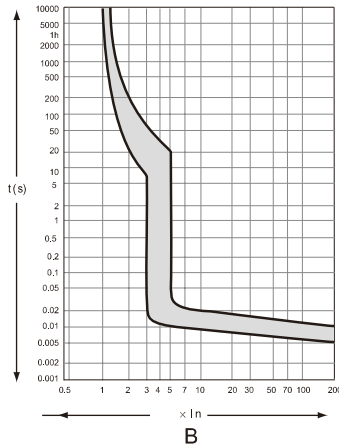
Trip Curve: B, C and D curves

Breaking Capacity: 3000/4500/6000A

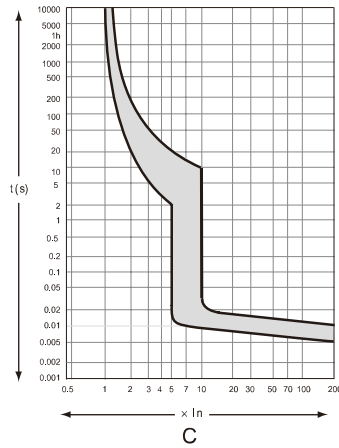


## Tripping Curve

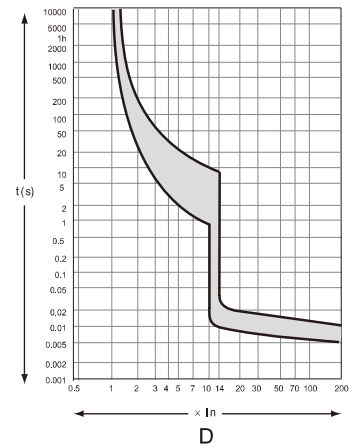
HDB6 Miniature Circuit Breaker



B



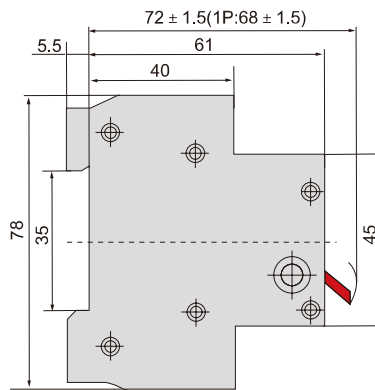
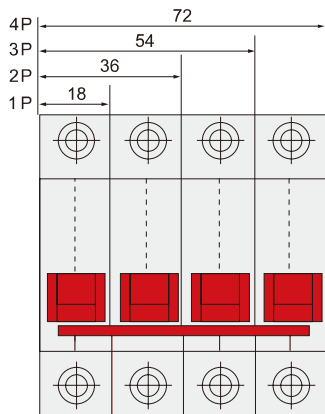
C



D

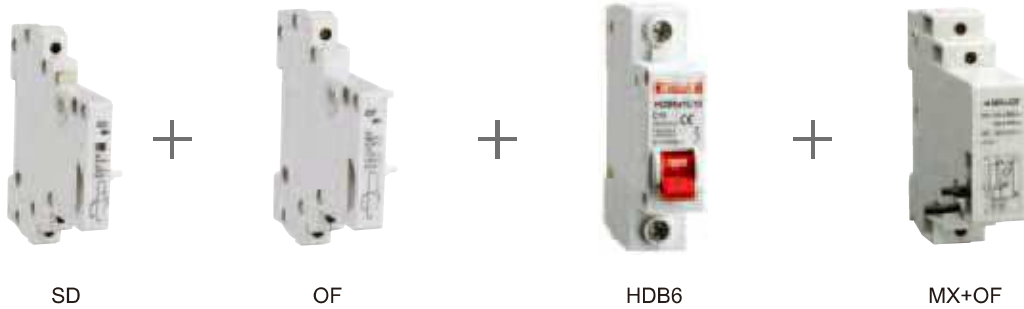
## Overall Dimensions

Unit:mm



## Accessories

The Sketch Map of Installation with Breakers



SD

OF

HDB6

MX+OF

Final Distribution