

HDB3w Miniature Circuit Breaker

Standard: IEC/EN60899-1

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Function

HDB3w Miniature standard circuit breaker has the following features:

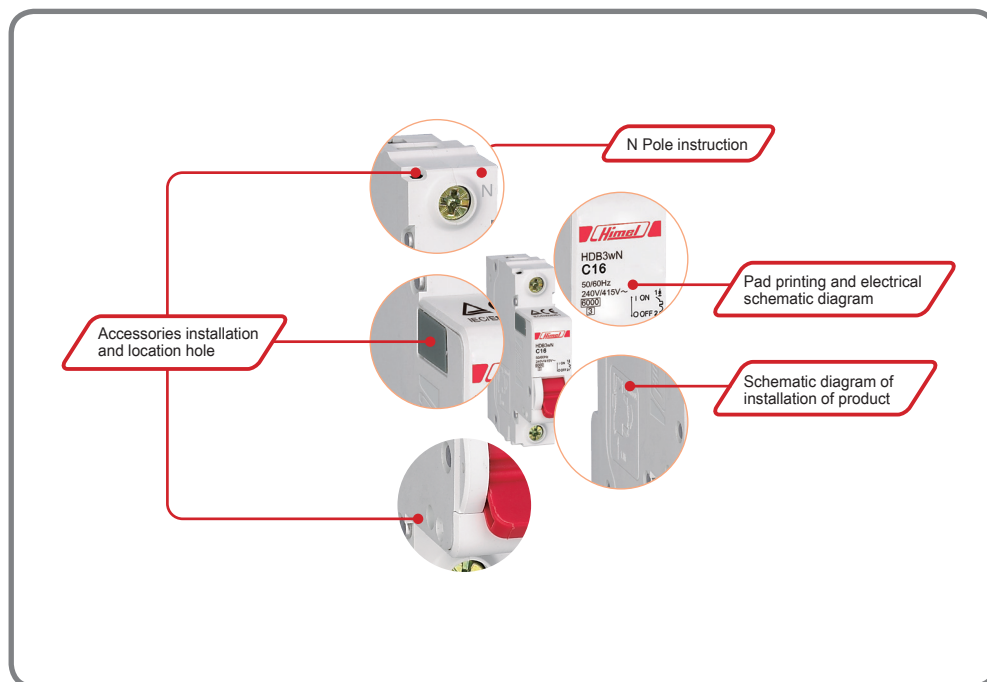
- Short circuit protection
- Overload protection
- Control
- Isolation

Main Features

Rated operating voltage (V)	1P: 240 AC 1P+N: 240 AC 2P, 3P, 3P+N, 4P: 415 AC
Rated current (A)	1-63
Rated frequency (Hz)	50/60
Number of poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Breaking capacity (kA)	3, 4.5, 6



Product Details Display



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Functions and Features

Electrical Characteristics

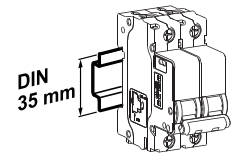
Nominal insulation voltage U_i	(V)	250 (phase-to-ground) 500 (phase-to-phase)
Maximum working voltage U_{Bmax}	1P, 1P+N (V) 2P, 3P, 4P, 3P+N (V)	240/415 AC 415 AC
Rated short-circuit capacity I_{cn} (IEC/EN60898)	(kA)	3, 4.5, 6
Rated impulse withstand voltage U_{imp} (1.2/50)	(kA)	4
Dielectric test voltage		2kV (50/60HZ, 1min)
Over-voltage category		II
Isolating function		Available
Pollution class		2
Electric shock protection grade		II
Trip type:		Thermal magnetic trip
Thermal magnetic trip characteristics:	Type B curve (3I _n ~5I _n) Type C curve (5I _n ~10I _n) Type D curve (10I _n ~14I _n)	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Electrical and mechanical accessories		<input checked="" type="checkbox"/>

Mechanical Characteristics

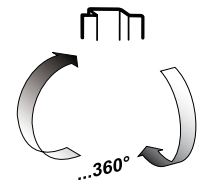
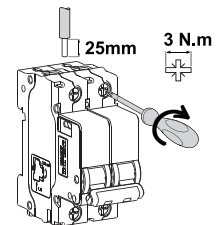
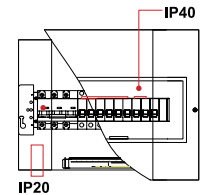
Handle	Red, pad printing indicating ON-OFF position
Mechanical endurance	Times 25,000
Electrical endurance	Times 6,000
Protection grade	Installed in distribution box IP40 Installed directly IP20
Mechanical shock resistance	30g, 3 shocks, lasting 11ms (No significant vibration or shock)
Anti-vibration (IEC/EN 60068-2-6)	No significant vibration or shock
Wet heat resistance (IEC 60068-2)	Category 2, 28 cycles
Wet heat °C/RH	Relative humidity 90%~96% at 55° C Relative humidity 95%~100% at 25° C
Rated ambient temperature	30° C
Operating ambient temperature (daily mean temperature)	-20° C~+60° C
Storage temperature	-40° C~+70° C

Installation Features

Terminal form	U terminal
Maximum wiring capacity (A)	Current ratings 1-63 25mm ²
Maximum ultimate torque (A)	Current ratings 1-63:3 N.m
Tool:	Crosshead screwdriver or flathead screwdriver
Installation	Installed on standard DIN guide rail (35mm)
Wiring Type	Top or bottom



Installed on 35mm standard guide rail



Flexible installation direction

HDB3w Miniature Circuit breaker


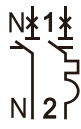

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HDB3w Selection Guide

Product name	Breaking capacity	Number of poles	Trip type	Rated current	
HDB3w	N	1	C	6	
	A: 3kA	1: 1P	B: Type B	1: 1A	20: 20A
	L: 4.5kA	2: 2P	C: Type C	2: 2A	25: 25A
	N: 6kA	3: 3P	D: Type D	3: 3A	32: 32A
		4: 4P		4: 4A	40: 40A
		5: 1P+N		6: 6A	50: 50A
		6: 3P+N		10: 10A	63: 63A
				16: 16A	

HDB3wA Miniature standard circuit breaker	Type	Rated current	Trip type		
			B	C	D
3kA 	1P	1	-	HDB3wA1C1	HDB3wA1D1
		2	-	HDB3wA1C2	HDB3wA1D2
		3	-	HDB3wA1C3	HDB3wA1D3
		4	-	HDB3wA1C4	HDB3wA1D4
		5	-	HDB3wA1C5	HDB3wA1D5
		6	HDB3wA1B6	HDB3wA1C6	HDB3wA1D6
		8	HDB3wA1B8	HDB3wA1C8	HDB3wA1D8
		10	HDB3wA1B10	HDB3wA1C10	HDB3wA1D10
		13	HDB3wA1B13	HDB3wA1C13	HDB3wA1D13
		16	HDB3wA1B16	HDB3wA1C16	HDB3wA1D16
		20	HDB3wA1B20	HDB3wA1C20	HDB3wA1D20
		25	HDB3wA1B25	HDB3wA1C25	HDB3wA1D25
		32	HDB3wA1B32	HDB3wA1C32	HDB3wA1D32
		40	HDB3wA1B40	HDB3wA1C40	HDB3wA1D40
		50	HDB3wA1B50	HDB3wA1C50	HDB3wA1D50
		63	HDB3wA1B63	HDB3wA1C63	HDB3wA1D63
		3kA 	1P+N	10	HDB3wA5B10
13	HDB3wA5B13			HDB3wA5C13	HDB3wA5D13
16	HDB3wA5B16			HDB3wA5C16	HDB3wA5D16
20	HDB3wA5B20			HDB3wA5C20	HDB3wA5D20
25	HDB3wA5B25			HDB3wA5C25	HDB3wA5D25
32	HDB3wA5B32			HDB3wA5C32	HDB3wA5D32
40	HDB3wA5B40			HDB3wA5C40	HDB3wA5D40
50	HDB3wA5B50			HDB3wA5C50	HDB3wA5D50
63	HDB3wA5B63	HDB3wA5C63	HDB3wA5D63		
3kA 	2P	1	-	HDB3wA2C1	HDB3wA2D1
		2	-	HDB3wA2C2	HDB3wA2D2
		3	-	HDB3wA2C3	HDB3wA2D3
		4	-	HDB3wA2C4	HDB3wA2D4
		5	-	HDB3wA2C5	HDB3wA2D5
		6	HDB3wA2B6	HDB3wA2C6	HDB3wA2D6
		8	HDB3wA2B8	HDB3wA2C8	HDB3wA2D8
		10	HDB3wA2B10	HDB3wA2C10	HDB3wA2D10
		13	HDB3wA2B13	HDB3wA2C13	HDB3wA2D13
		16	HDB3wA2B16	HDB3wA2C16	HDB3wA2D16
		20	HDB3wA2B20	HDB3wA2C20	HDB3wA2D20
		25	HDB3wA2B25	HDB3wA2C25	HDB3wA2D25
		32	HDB3wA2B32	HDB3wA2C32	HDB3wA2D32
		40	HDB3wA2B40	HDB3wA2C40	HDB3wA2D40
		50	HDB3wA2B50	HDB3wA2C50	HDB3wA2D50
		63	HDB3wA2B63	HDB3wA2C63	HDB3wA2D63

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HDB3w Selection Guide



HDB3wA Miniature standard circuit breaker	Type	Rated current		Trip type	
		B	C	D	
3kA 	3P	1	-	HDB3wA3C1	HDB3wA3D1
		2	-	HDB3wA3C2	HDB3wA3D2
		3	-	HDB3wA3C3	HDB3wA3D3
		4	-	HDB3wA3C4	HDB3wA3D4
		5	-	HDB3wA3C5	HDB3wA3D5
		6	HDB3wA3B6	HDB3wA3C6	HDB3wA3D6
		8	HDB3wA3B8	HDB3wA3C8	HDB3wA3D8
		10	HDB3wA3B10	HDB3wA3C10	HDB3wA3D10
		13	HDB3wA3B13	HDB3wA3C13	HDB3wA3D13
		16	HDB3wA3B16	HDB3wA3C16	HDB3wA3D16
		20	HDB3wA3B20	HDB3wA3C20	HDB3wA3D20
		25	HDB3wA3B25	HDB3wA3C25	HDB3wA3D25
		32	HDB3wA3B32	HDB3wA3C32	HDB3wA3D32
		40	HDB3wA3B40	HDB3wA3C40	HDB3wA3D40
		50	HDB3wA3B50	HDB3wA3C50	HDB3wA3D50
		63	HDB3wA3B63	HDB3wA3C63	HDB3wA3D63
3kA 	3P+N	10	HDB3wA6B10	HDB3wA6C10	HDB3wA6D10
		13	HDB3wA6B13	HDB3wA6C13	HDB3wA6D13
		16	HDB3wA6B16	HDB3wA6C16	HDB3wA6D16
		20	HDB3wA6B20	HDB3wA6C20	HDB3wA6D20
		25	HDB3wA6B25	HDB3wA6C25	HDB3wA6D25
		32	HDB3wA6B32	HDB3wA6C32	HDB3wA6D32
		40	HDB3wA6B40	HDB3wA6C40	HDB3wA6D40
		50	HDB3wA6B50	HDB3wA6C50	HDB3wA6D50
		63	HDB3wA6B63	HDB3wA6C63	HDB3wA6D63
		3kA 	4P	1	-
2	-			HDB3wA4C2	HDB3wA4D2
3	-			HDB3wA4C3	HDB3wA4D3
4	-			HDB3wA4C4	HDB3wA4D4
5	-			HDB3wA4C5	HDB3wA4D5
6	HDB3wA4B6			HDB3wA4C6	HDB3wA4D6
8	HDB3wA4B8			HDB3wA4C8	HDB3wA4D8
10	HDB3wA4B10			HDB3wA4C10	HDB3wA4D10
13	HDB3wA4B13			HDB3wA4C13	HDB3wA4D13
16	HDB3wA4B16			HDB3wA4C16	HDB3wA4D16
20	HDB3wA4B20			HDB3wA4C20	HDB3wA4D20
25	HDB3wA4B25			HDB3wA4C25	HDB3wA4D25
32	HDB3wA4B32			HDB3wA4C32	HDB3wA4D32
40	HDB3wA4B40			HDB3wA4C40	HDB3wA4D40
50	HDB3wA4B50			HDB3wA4C50	HDB3wA4D50
63	HDB3wA4B63			HDB3wA4C63	HDB3wA4D63




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HDB3w Selection Guide

HDB3wL Miniature standard circuit breaker	Type	Rated current	Trip type		
			B	C	D
4.5kA 	1P	1	-	HDB3wL1C1	HDB3wL1D1
		2	-	HDB3wL1C2	HDB3wL1D2
		3	-	HDB3wL1C3	HDB3wL1D3
		4	-	HDB3wL1C4	HDB3wL1D4
		5	-	HDB3wL1C5	HDB3wL1D5
		6	HDB3wL1B6	HDB3wL1C6	HDB3wL1D6
		8	HDB3wL1B8	HDB3wL1C8	HDB3wL1D8
		10	HDB3wL1B10	HDB3wL1C10	HDB3wL1D10
		13	HDB3wL1B13	HDB3wL1C13	HDB3wL1D13
		16	HDB3wL1B16	HDB3wL1C16	HDB3wL1D16
		20	HDB3wL1B20	HDB3wL1C20	HDB3wL1D20
		25	HDB3wL1B25	HDB3wL1C25	HDB3wL1D25
		32	HDB3wL1B32	HDB3wL1C32	HDB3wL1D32
		40	HDB3wL1B40	HDB3wL1C40	HDB3wL1D40
		50	HDB3wL1B50	HDB3wL1C50	HDB3wL1D50
		63	HDB3wL1B63	HDB3wL1C63	HDB3wL1D63
4.5kA 	1P+N	10	HDB3wL5B10	HDB3wL5C10	HDB3wL5D10
		13	HDB3wL5B13	HDB3wL5C13	HDB3wL5D13
		16	HDB3wL5B16	HDB3wL5C16	HDB3wL5D16
		20	HDB3wL5B20	HDB3wL5C20	HDB3wL5D20
		25	HDB3wL5B25	HDB3wL5C25	HDB3wL5D25
		32	HDB3wL5B32	HDB3wL5C32	HDB3wL5D32
		40	HDB3wL5B40	HDB3wL5C40	HDB3wL5D40
		50	HDB3wL5B50	HDB3wL5C50	HDB3wL5D50
63	HDB3wL5B63	HDB3wL5C63	HDB3wL5D63		
4.5kA 	2P	1	-	HDB3wL2C1	HDB3wL2D1
		2	-	HDB3wL2C2	HDB3wL2D2
		3	-	HDB3wL2C3	HDB3wL2D3
		4	-	HDB3wL2C4	HDB3wL2D4
		5	-	HDB3wL2C5	HDB3wL2D5
		6	HDB3wL2B6	HDB3wL2C6	HDB3wL2D6
		8	HDB3wL2B8	HDB3wL2C8	HDB3wL2D8
		10	HDB3wL2B10	HDB3wL2C10	HDB3wL2D10
		13	HDB3wL2B13	HDB3wL2C13	HDB3wL2D13
		16	HDB3wL2B16	HDB3wL2C16	HDB3wL2D16
		20	HDB3wL2B20	HDB3wL2C20	HDB3wL2D20
		25	HDB3wL2B25	HDB3wL2C25	HDB3wL2D25
		32	HDB3wL2B32	HDB3wL2C32	HDB3wL2D32
		40	HDB3wL2B40	HDB3wL2C40	HDB3wL2D40
		50	HDB3wL2B50	HDB3wL2C50	HDB3wL2D50
		63	HDB3wL2B63	HDB3wL2C63	HDB3wL2D63


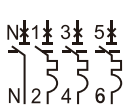
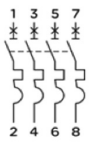
HDB3w Miniature Circuit breaker

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HDB3w Selection Guide

HDB3wL Miniature standard circuit breaker	Type	Rated current	Trip type		
			B	C	D
4.5kA 	3P	1	-	HDB3wL3C1	HDB3wL3D1
		2	-	HDB3wL3C2	HDB3wL3D2
		3	-	HDB3wL3C3	HDB3wL3D3
		4	-	HDB3wL3C4	HDB3wL3D4
		5	-	HDB3wL3C5	HDB3wL3D5
		6	HDB3wL3B6	HDB3wL3C6	HDB3wL3D6
		8	HDB3wL3B8	HDB3wL3C8	HDB3wL3D8
		10	HDB3wL3B10	HDB3wL3C10	HDB3wL3D10
		13	HDB3wL3B13	HDB3wL3C13	HDB3wL3D13
		16	HDB3wL3B16	HDB3wL3C16	HDB3wL3D16
		20	HDB3wL3B20	HDB3wL3C20	HDB3wL3D20
		25	HDB3wL3B25	HDB3wL3C25	HDB3wL3D25
		32	HDB3wL3B32	HDB3wL3C32	HDB3wL3D32
		40	HDB3wL3B40	HDB3wL3C40	HDB3wL3D40
		50	HDB3wL3B50	HDB3wL3C50	HDB3wL3D50
63	HDB3wL3B63	HDB3wL3C63	HDB3wL3D63		
4.5kA 	3P+N	10	HDB3wL6B10	HDB3wL6C10	HDB3wL6D10
		13	HDB3wL6B13	HDB3wL6C13	HDB3wL6D13
		16	HDB3wL6B16	HDB3wL6C16	HDB3wL6D16
		20	HDB3wL6B20	HDB3wL6C20	HDB3wL6D20
		25	HDB3wL6B25	HDB3wL6C25	HDB3wL6D25
		32	HDB3wL6B32	HDB3wL6C32	HDB3wL6D32
		40	HDB3wL6B40	HDB3wL6C40	HDB3wL6D40
		50	HDB3wL6B50	HDB3wL6C50	HDB3wL6D50
63	HDB3wL6B63	HDB3wL6C63	HDB3wL6D63		
4.5kA 	4P	1	-	HDB3wL4C1	HDB3wL4D1
		2	-	HDB3wL4C2	HDB3wL4D2
		3	-	HDB3wL4C3	HDB3wL4D3
		4	-	HDB3wL4C4	HDB3wL4D4
		5	-	HDB3wL4C5	HDB3wL4D5
		6	HDB3wL4B6	HDB3wL4C6	HDB3wL4D6
		8	HDB3wL4B8	HDB3wL4C8	HDB3wL4D8
		10	HDB3wL4B10	HDB3wL4C10	HDB3wL4D10
		13	HDB3wL4B13	HDB3wL4C13	HDB3wL4D13
		16	HDB3wL4B16	HDB3wL4C16	HDB3wL4D16
		20	HDB3wL4B20	HDB3wL4C20	HDB3wL4D20
		25	HDB3wL4B25	HDB3wL4C25	HDB3wL4D25
		32	HDB3wL4B32	HDB3wL4C32	HDB3wL4D32
		40	HDB3wL4B40	HDB3wL4C40	HDB3wL4D40
		50	HDB3wL4B50	HDB3wL4C50	HDB3wL4D50
		63	HDB3wL4B63	HDB3wL4C63	HDB3wL4D63




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HDB3w Selection Guide

HDB3wN Miniature standard circuit breaker	Type	Rated current	Trip type		
			B	C	D
6kA 	1P	1	-	HDB3wN1C1	HDB3wN1D1
		2	-	HDB3wN1C2	HDB3wN1D2
		3	-	HDB3wN1C3	HDB3wN1D3
		4	-	HDB3wN1C4	HDB3wN1D4
		5	-	HDB3wN1C5	HDB3wN1D5
		6	HDB3wN1B6	HDB3wN1C6	HDB3wN1D6
		8	HDB3wN1B8	HDB3wN1C8	HDB3wN1D8
		10	HDB3wN1B10	HDB3wN1C10	HDB3wN1D10
		13	HDB3wN1B13	HDB3wN1C13	HDB3wN1D13
		16	HDB3wN1B16	HDB3wN1C16	HDB3wN1D16
		20	HDB3wN1B20	HDB3wN1C20	HDB3wN1D20
		25	HDB3wN1B25	HDB3wN1C25	HDB3wN1D25
		32	HDB3wN1B32	HDB3wN1C32	HDB3wN1D32
		40	HDB3wN1B40	HDB3wN1C40	HDB3wN1D40
		50	HDB3wN1B50	HDB3wN1C50	HDB3wN1D50
63	HDB3wN1B63	HDB3wN1C63	HDB3wN1D63		
6kA 	1P+N	10	HDB3wN5B10	HDB3wN5C10	HDB3wN5D10
		13	HDB3wN5B13	HDB3wN5C13	HDB3wN5D13
		16	HDB3wN5B16	HDB3wN5C16	HDB3wN5D16
		20	HDB3wN5B20	HDB3wN5C20	HDB3wN5D20
		25	HDB3wN5B25	HDB3wN5C25	HDB3wN5D25
		32	HDB3wN5B32	HDB3wN5C32	HDB3wN5D32
		40	HDB3wN5B40	HDB3wN5C40	HDB3wN5D40
		50	HDB3wN5B50	HDB3wN5C50	HDB3wN5D50
63	HDB3wN5B63	HDB3wN5C63	HDB3wN5D63		
6kA 	2P	1	-	HDB3wN2C1	HDB3wN2D1
		2	-	HDB3wN2C2	HDB3wN2D2
		3	-	HDB3wN2C3	HDB3wN2D3
		4	-	HDB3wN2C4	HDB3wN2D4
		5	-	HDB3wN2C5	HDB3wN2D5
		6	HDB3wN2B6	HDB3wN2C6	HDB3wN2D6
		8	HDB3wN2B8	HDB3wN2C8	HDB3wN2D8
		10	HDB3wN2B10	HDB3wN2C10	HDB3wN2D10
		13	HDB3wN2B13	HDB3wN2C13	HDB3wN2D13
		16	HDB3wN2B16	HDB3wN2C16	HDB3wN2D16
		20	HDB3wN2B20	HDB3wN2C20	HDB3wN2D20
		25	HDB3wN2B25	HDB3wN2C25	HDB3wN2D25
		32	HDB3wN2B32	HDB3wN2C32	HDB3wN2D32
		40	HDB3wN2B40	HDB3wN2C40	HDB3wN2D40
		50	HDB3wN2B50	HDB3wN2C50	HDB3wN2D50
		63	HDB3wN2B63	HDB3wN2C63	HDB3wN2D63

HDB3w Miniature Circuit breaker

Standard: IEC/EN60899-1

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HDB3w Selection Guide

HDB3wN Miniature standard circuit breaker	Type	Rated current	Trip type		
			B	C	D
6kA 	3P	1	-	HDB3wN3C1	HDB3wN3D1
		2	-	HDB3wN3C2	HDB3wN3D2
		3	-	HDB3wN3C3	HDB3wN3D3
		4	-	HDB3wN3C4	HDB3wN3D4
		5	-	HDB3wN3C5	HDB3wN3D5
		6	HDB3wN3B6	HDB3wN3C6	HDB3wN3D6
		8	HDB3wN3B8	HDB3wN3C8	HDB3wN3D8
		10	HDB3wN3B10	HDB3wN3C10	HDB3wN3D10
		13	HDB3wN3B13	HDB3wN3C13	HDB3wN3D13
		16	HDB3wN3B16	HDB3wN3C16	HDB3wN3D16
		20	HDB3wN3B20	HDB3wN3C20	HDB3wN3D20
		25	HDB3wN3B25	HDB3wN3C25	HDB3wN3D25
		32	HDB3wN3B32	HDB3wN3C32	HDB3wN3D32
		40	HDB3wN3B40	HDB3wN3C40	HDB3wN3D40
		50	HDB3wN3B50	HDB3wN3C50	HDB3wN3D50
63	HDB3wN3B63	HDB3wN3C63	HDB3wN3D63		
6kA 	3P+N	10	HDB3wN6B10	HDB3wN6C10	HDB3wN6D10
		13	HDB3wN6B13	HDB3wN6C13	HDB3wN6D13
		16	HDB3wN6B16	HDB3wN6C16	HDB3wN6D16
		20	HDB3wN6B20	HDB3wN6C20	HDB3wN6D20
		25	HDB3wN6B25	HDB3wN6C25	HDB3wN6D25
		32	HDB3wN6B32	HDB3wN6C32	HDB3wN6D32
		40	HDB3wN6B40	HDB3wN6C40	HDB3wN6D40
		50	HDB3wN6B50	HDB3wN6C50	HDB3wN6D50
		63	HDB3wN6B63	HDB3wN6C63	HDB3wN6D63
		6kA 	4P	1	-
2	-			HDB3wN4C2	HDB3wN4D2
3	-			HDB3wN4C3	HDB3wN4D3
4	-			HDB3wN4C4	HDB3wN4D4
5	-			HDB3wN4C5	HDB3wN4D5
6	HDB3wN4B6			HDB3wN4C6	HDB3wN4D6
8	HDB3wN4B8			HDB3wN4C8	HDB3wN4D8
10	HDB3wN4B10			HDB3wN4C10	HDB3wN4D10
13	HDB3wN4B13			HDB3wN4C13	HDB3wN4D13
16	HDB3wN4B16			HDB3wN4C16	HDB3wN4D16
20	HDB3wN4B20			HDB3wN4C20	HDB3wN4D20
25	HDB3wN4B25			HDB3wN4C25	HDB3wN4D25
32	HDB3wN4B32			HDB3wN4C32	HDB3wN4D32
40	HDB3wN4B40			HDB3wN4C40	HDB3wN4D40
50	HDB3wN4B50			HDB3wN4C50	HDB3wN4D50
63	HDB3wN4B63			HDB3wN4C63	HDB3wN4D63

HDB3w Miniature Circuit breaker

Appendix

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Trip Characteristic

B features

The miniature circuit breaker with B tripping features meets IEC 60898 standard and applies to providing protection for the resistive load or the load without impulse current.

C features

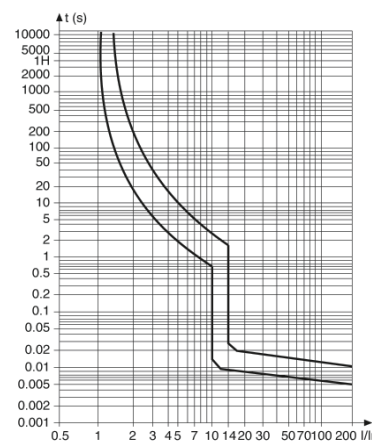
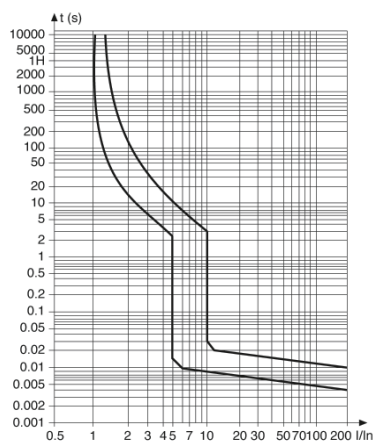
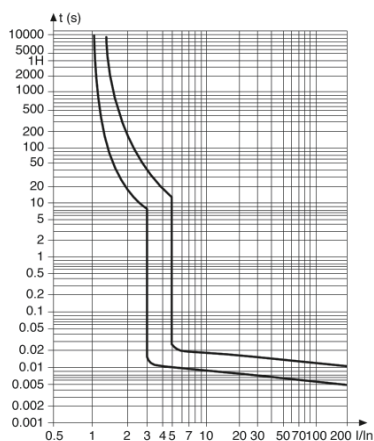
The miniature circuit breaker with C trip features meets IEC60898 standard and applies to providing protection for the resistive load and the inductive load with lower impulse current

D features

The miniature circuit breaker with D trip features meets IEC60898 standard and applies to providing protection for the load with higher impulse current at circuit connection.

Tripping type	Compliance standard	Thermal trip characteristics				Electro-magnetic trip characteristics			
		Test current	Test time	Initial state	Expected result	AC test current	Test time	Initial state	Expected result
B	IEC60898	1.13I _n	1h	Cold state	Non tripping	3I _n	0.1s	Cold state	Non-tripping
		1.45I _n	1h	Heated state	Tripping	5I _n	0.1s		Tripping
C	IEC60898	1.13I _n	≥1h(≤ 63A) ≥ 2h(63A)	Cold state	Non tripping	10I _n	≥0.1s		Non-tripping
		1.45I _n	1h (≤ 63A) 2h (63A)	Heated state	Tripping	10I _n	0.1s		Tripping
D	IEC60898	1.13I _n	≥1h	Cold state	Non tripping	20I _n	≥0.1s		Non-tripping
		1.45I _n	1h	Heated state	Tripping		0.1s		Tripping

Tripping Curve



HDB3w Miniature Circuit breaker

Performance Influencing factors

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Temperature Correction Factor Table

Rated current A	Rated current correction value A								
	-20	-10	0	10	20	30	40	50	60
1	1.22	1.18	1.15	1.1	1.05	1	0.94	0.9	0.84
2	2.43	2.31	2.25	2.17	2.06	2	1.93	1.85	1.63
3	3.68	3.57	3.43	3.29	3.18	3	2.82	2.63	2.57
4	4.89	4.75	4.67	4.48	4.24	4	3.98	3.52	3.25
5	6.21	5.98	5.83	5.77	5.42	5	4.85	4.57	4.19
6	7.33	7.05	6.84	6.62	6.3	6	5.64	5.42	5.06
8	9.78	9.44	9.15	8.51	7.98	8	7.1	6.92	6.75
10	12.25	11.87	11.64	11.15	10.62	10	9.3	8.96	8.48
13	15.78	15.34	14.83	14.22	13.75	13	12.1	11.75	10.93
16	19.49	18.72	18.06	17.98	16.96	16	15.04	14.42	13.47
20	24.35	23.68	22.82	22.47	21.2	20	18.8	17.85	16.78
25	30.52	29.61	28.78	28.09	26.5	25	23.25	22.52	21.02
32	38.96	37.68	36.62	35.96	33.92	32	30.08	28.81	26.84
40	48.85	47.13	46.32	45.8	42.8	40	36.8	36.21	33.5
50	61.58	59.52	57.35	55.04	52.59	50	46	44.25	42.36
63	76.86	74.25	71.18	69.13	67.41	63	58.59	56.83	52.93

HDB3w Miniature Circuit breaker

HDB3w Miniature Circuit breaker

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Derating Table for Using in High Altitude Area

- IEC60947.2 standard stipulates the relationship between the altitude and the dielectric property. The altitude below 2,000m does not have significant impact on the properties of the circuit breaker.
- When the altitude is higher than 2,000m, the air cooling, dielectric property falling and other conditions must be considered, so the manufacturer shall discuss with the user on the working conditions or conduct special design
- The following table provides the correct value made for the rated current when the breaking capacity remains unchanged at the altitude above 2,000m.

Altitude (m)	2000	3000	4000
Dielectric strength	2500	2200	1950
Maximum working voltage (V)	440	440	440
Rated current	I_n	$0.96I_n$	$0.93I_n$