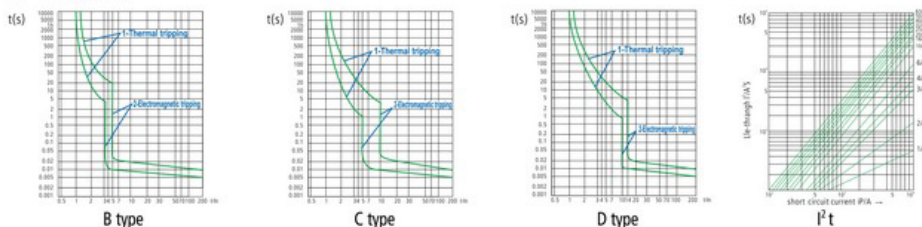


1. Curves



2. Overcurrent protecting characteristics

No	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.13In	$t \leq 1$ h	Non-trip	
2	1-63	upon the previous test	1.45In	$t < 1$ h	trip	Setting current up to specified value steadily in 5S
3	$In \leq 32$	cold state	2.55In	$1s < t < 60s$	trip	
	$In > 32$	cold state	2.55In	$1s < t < 120s$	trip	
4	1-63	cold state	3In	$t \leq 0.1s$	Non-trip	B type
	1-63	cold state	5In	$t < 1.1s$	trip	B type
	1-63	cold state	5In	$t \leq 0.1s$	Non-trip	C type
	1-63	cold state	10In	$t < 1.1s$	trip	C type
	1-63	cold state	10In	$t \leq 0.1s$	Non-trip	D type
	1-63	cold state	20In	$t < 1.1s$	trip	D type

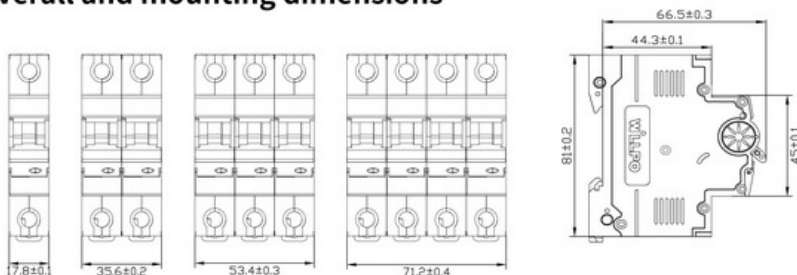
3. Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	8000	240/h	0.5-32
		120/h	40-63
Mechanical endurance	20000	240/h	0.5-63

4.Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism. Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

5. Overall and mounting dimensions



ALB-63M

ALB-63M MCB



ALB-63M-3P



ALB-63M-3P+N



ALB-63M-4P

Rated current(A)	B curve	C curve	D curve	Packing unit
0.5	ALB/3-B0.5	ALB/3-C0.5	ALB/3-D0.5	4
1	ALB/3-B1	ALB/3-C1	ALB/3-D1	4
2	ALB/3-B2	ALB/3-C2	ALB/3-D2	4
3	ALB/3-B3	ALB/3-C3	ALB/3-D3	4
4	ALB/3-B4	ALB/3-C4	ALB/3-D4	4
6	ALB/3-B6	ALB/3-C6	ALB/3-D6	4
10	ALB/3-B10	ALB/3-C10	ALB/3-D10	4
13	ALB/3-B13	ALB/3-C13	ALB/3-D13	4
16	ALB/3-B16	ALB/3-C16	ALB/3-D16	4
20	ALB/3-B20	ALB/3-C20	ALB/3-D20	4
25	ALB/3-B25	ALB/3-C25	ALB/3-D25	4
32	ALB/3-B32	ALB/3-C32	ALB/3-D32	4
40	ALB/3-B40	ALB/3-C40	ALB/3-D40	4
50	ALB/3-B50	ALB/3-C50	ALB/3-D50	4
63	ALB/3-B63	ALB/3-C63	ALB/3-D63	4
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0.5	ALB/3-B0.5N	ALB/3-C0.5N	ALB/3-D0.5N	3
1	ALB/3-B1N	ALB/3-C1N	ALB/3-D1N	3
2	ALB/3-B2N	ALB/3-C2N	ALB/3-D2N	3
3	ALB/3-B3N	ALB/3-C3N	ALB/3-D3N	3
4	ALB/3-B4N	ALB/3-C4N	ALB/3-D4N	3
6	ALB/3-B6N	ALB/3-C6N	ALB/3-D6N	3
10	ALB/3-B10N	ALB/3-C10N	ALB/3-D10N	3
13	ALB/3-B13N	ALB/3-C13N	ALB/3-D13N	3
16	ALB/3-B16N	ALB/3-C16N	ALB/3-D16N	3
20	ALB/3-B20N	ALB/3-C20N	ALB/3-D20N	3
25	ALB/3-B25N	ALB/3-C25N	ALB/3-D25N	3
32	ALB/3-B32N	ALB/3-C32N	ALB/3-D32N	3
40	ALB/3-B40N	ALB/3-C40N	ALB/3-D40N	3
50	ALB/3-B50N	ALB/3-C50N	ALB/3-D50N	3
63	ALB/3-B63N	ALB/3-C63N	ALB/3-D63N	3
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0.5	ALB/4-B0.5	ALB/4-C0.5	ALB/4-D0.5	3
1	ALB/4-B1	ALB/4-C1	ALB/4-D1	3
2	ALB/4-B2	ALB/4-C2	ALB/4-D2	3
3	ALB/4-B3	ALB/4-C3	ALB/4-D3	3
4	ALB/4-B4	ALB/4-C4	ALB/4-D4	3
6	ALB/4-B6	ALB/4-C6	ALB/4-D6	3
10	ALB/4-B10	ALB/4-C10	ALB/4-D10	3
13	ALB/4-B13	ALB/4-C13	ALB/4-D13	3
16	ALB/4-B16	ALB/4-C16	ALB/4-D16	3
20	ALB/4-B20	ALB/4-C20	ALB/4-D20	3
25	ALB/4-B25	ALB/4-C25	ALB/4-D25	3
32	ALB/4-B32	ALB/4-C32	ALB/4-D32	3
40	ALB/4-B40	ALB/4-C40	ALB/4-D40	3
50	ALB/4-B50	ALB/4-C50	ALB/4-D50	3
63	ALB/4-B63	ALB/4-C63	ALB/4-D63	3

ALB-63M MCB



ALB-63M-1P



ALB-63M-1P+N



ALB-63M-2P

Rated current(A)	B curve	C curve	D curve	Packing unit
0.5	ALB-63M/1-B0.5	ALB-63M/1-C0.5	ALB-63M/1-D0.5	12
1	ALB-63M/1-B1	ALB-63M/1-C1	ALB-63M/1-D1	12
2	ALB-63M/1-B2	ALB-63M/1-C2	ALB-63M/1-D2	12
3	ALB-63M/1-B3	ALB-63M/1-C3	ALB-63M/1-D3	12
4	ALB-63M/1-B4	ALB-63M/1-C4	ALB-63M/1-D4	12
6	ALB-63M/1-B6	ALB-63M/1-C6	ALB-63M/1-D6	12
10	ALB-63M/1-B10	ALB-63M/1-C10	ALB-63M/1-D10	12
13	ALB-63M/1-B13	ALB-63M/1-C13	ALB-63M/1-D13	12
16	ALB-63M/1-B16	ALB-63M/1-C16	ALB-63M/1-D16	12
20	ALB-63M/1-B20	ALB-63M/1-C20	ALB-63M/1-D20	12
25	ALB-63M/1-B25	ALB-63M/1-C25	ALB-63M/1-D25	12
32	ALB-63M/1-B32	ALB-63M/1-C32	ALB-63M/1-D32	12
40	ALB-63M/1-B40	ALB-63M/1-C40	ALB-63M/1-D40	12
50	ALB-63M/1-B50	ALB-63M/1-C50	ALB-63M/1-D50	12
63	ALB-63M/1-B63	ALB-63M/1-C63	ALB-63M/1-D63	12
0.5	ALB-63M/1-B0.5N	ALB-63M/1-C0.5N	ALB-63M/1-D0.5N	6
1	ALB-63M/1-B1N	ALB-63M/1-C1N	ALB-63M/1-D1N	6
2	ALB-63M/1-B2N	ALB-63M/1-C2N	ALB-63M/1-D2N	6
3	ALB-63M/1-B3N	ALB-63M/1-C3N	ALB-63M/1-D3N	6
4	ALB-63M/1-B4N	ALB-63M/1-C4N	ALB-63M/1-D4N	6
6	ALB-63M/1-B6N	ALB-63M/1-C6N	ALB-63M/1-D6N	6
10	ALB-63M/1-B10N	ALB-63M/1-C10N	ALB-63M/1-D10N	6
13	ALB-63M/1-B13N	ALB-63M/1-C13N	ALB-63M/1-D13N	6
16	ALB-63M/1-B16N	ALB-63M/1-C16N	ALB-63M/1-D16N	6
20	ALB-63M/1-B20N	ALB-63M/1-C20N	ALB-63M/1-D20N	6
25	ALB-63M/1-B25N	ALB-63M/1-C25N	ALB-63M/1-D25N	6
32	ALB-63M/1-B32N	ALB-63M/1-C32N	ALB-63M/1-D32N	6
40	ALB-63M/1-B40N	ALB-63M/1-C40N	ALB-63M/1-D40N	6
50	ALB-63M/1-B50N	ALB-63M/1-C50N	ALB-63M/1-D50N	6
63	ALB-63M/1-B63N	ALB-63M/1-C63N	ALB-63M/1-D63N	6
0.5	ALB-63M/2-B0.5	ALB-63M/2-C0.5	ALB-63M/2-D0.5	6
1	ALB-63M/2-B1	ALB-63M/2-C1	ALB-63M/2-D1	6
2	ALB-63M/2-B2	ALB-63M/2-C2	ALB-63M/2-D2	6
3	ALB-63M/2-B3	ALB-63M/2-C3	ALB-63M/2-D3	6
4	ALB-63M/2-B4	ALB-63M/2-C4	ALB-63M/2-D4	6
6	ALB-63M/2-B6	ALB-63M/2-C6	ALB-63M/2-D6	6
10	ALB-63M/2-B10	ALB-63M/2-C10	ALB-63M/2-D10	6
13	ALB-63M/2-B13	ALB-63M/2-C13	ALB-63M/2-D13	6
16	ALB-63M/2-B16	ALB-63M/2-C16	ALB-63M/2-D16	6
20	ALB-63M/2-B20	ALB-63M/2-C20	ALB-63M/2-D20	6
25	ALB-63M/2-B25	ALB-63M/2-C25	ALB-63M/2-D25	6
32	ALB-63M/2-B32	ALB-63M/2-C32	ALB-63M/2-D32	6
40	ALB-63M/2-B40	ALB-63M/2-C40	ALB-63M/2-D40	6
50	ALB-63M/2-B50	ALB-63M/2-C50	ALB-63M/2-D50	6
63	ALB-63M/2-B63	ALB-63M/2-C63	ALB-63M/2-D63	6

ALB-63M Series

Miniature Circuit Breaker

Technical data

Standard	EN/ IEC60898-1
Breaking capacity	6kA
Protection	Against overload and short circuit
Rated current In	0,5,1,2,3,4,6, 10, 13, 16,20,25,32,40,50,63A
Rated voltage	AC: 1,2,3,4 Pole 230/400V
	Rated insulation voltage Ui: 500V
	Rated impulse withstand voltage Uimp: 4kV
	Energy limiting :class 1
Ambient temperature (°C)	-5~+40
Characteristic	Thermal operating limit: (1.13-1.45) x In Magnetic operating: B: (3-5) x In C: (5-10) x In D: (10-20) x In
Number of poles	1P, 1P+N,2P,3P,3P+N and 4P
Type of trip	Thermal / magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	16mm ² flexible or 25mm ² rigid up to 25A ratings 25mm ² flexible or 35mm ² rigid from 32A to 63A ratings
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole



ALB-63M-1P



ALB-63M-2P



ALB-63M-3P



ALB-63M-4P

1. Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16,25,32	2000	2000	240
40,50,63,80	2000	1000	120

2. Breaking time of residual current

Max. breaking time					
In(A)	I _{Δn} (A)	I _{Δn}	2I _{Δn}	5I _{Δn}	5A,10A,20A,50A,100A,200A,500A
16,25,32,40,50,63,80	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

3. Wiring

The suitable conductors should be used for connection, see table below for relative parameters.

Rated current In (A)	Cross section area s (mm ²)	Tightening torque (N.m)
16	2.5	2.5
25	4	2.5
32	6	2.5
40	10	2.5
50	16	2.5
63	16	2.5
80	25	2.5

4. Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008 standards were considered. Important features are:

Up to date design

User-friendly connection of conductors and busbars

Resistance to current surges; unwanted tripping excluded

Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715

Additional colour display of main contacts position (red:contacts closed, green:contacts open)

5. Overall and mounting dimensions

