



MAB Mini Circuit Breaker (AC MCB)



MAB-63

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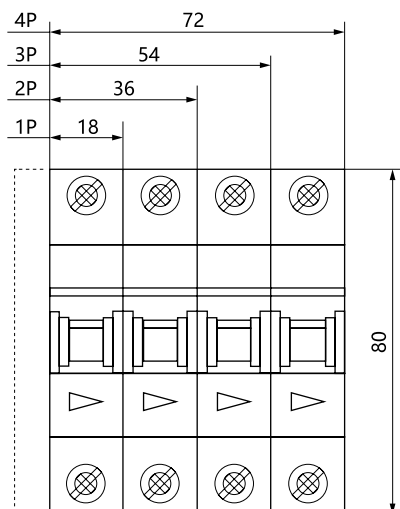
Product introduction

MAB-63 1P have protective function as overload, and are used in lighting distribution system in industry commerce and dwelling, and protect fractional electric motors. And they also have many merits of high protective grade(up to IP20), high breaking capacity, reliable sensitive, action convenient, multi pole assembling, long life ect. The are mainly adapted to the circuit of AC 50Hz, 250V in single pole, 415V in double three, four poles for protecting overload and short circuit. Mean while, they are also used in turning on or off the electric apparatus and lighting circuit under the normal conditions.

Technical Parameters

Standard	EN60898(IEC60898)/IEC60947-2
Rated Voltage	230V/400V AC
Rated Current	3,6,10,16,20,25,32,40,50,63A
Rated Breaking Capacity	10KA IEC60898(3~63A)
Characteristic Curve	B, C, D
Max. Fuse That Can Be Connected To	100AGL(>10KA)
Selective Grade	3
Working Ambient Temperature	-5°C ~ +40°C
Enclosed Protective Class	IP20
Nominal Frequency	50/60Hz
Maximum Operating Voltage(Ue)	≥ 400V AC
Insulation Voltage(Ui)	≥ 6KV
Voltage Testing Pulse(Uimp)	≥ 10KA
Maximum Cutting Capacity(Icu)	≥ 10KA
Electrical Life	Not less than 8000 times
Mechanical Life	Not less than 20000 times

Dimensions



MAB-63

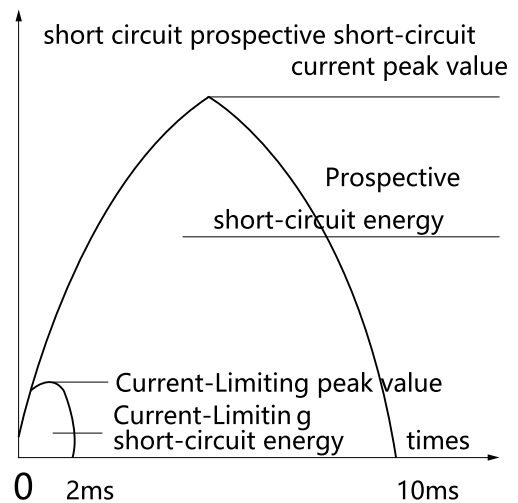
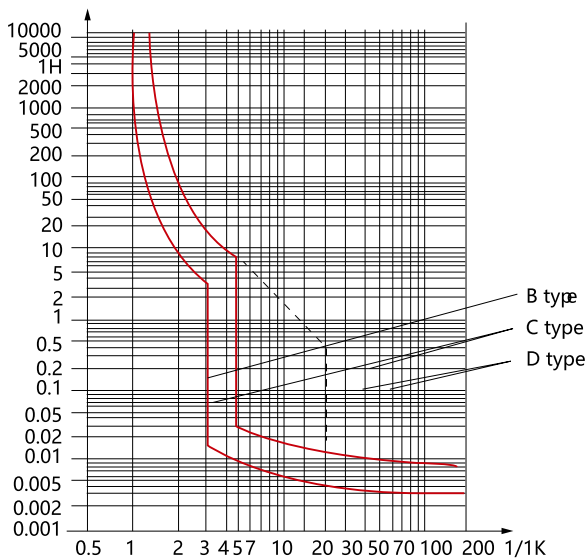
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Over current tripping characteristic

Item	Model	Rated Current(A)	Initial State	Test Current	Limited Time	Limited Time	Remark
a	B, C, D	1~63	Cold state	1.13In	t 1h	Non-tripping	
b	B, C, D	1~63	Immediately after the previous test	1.45In	t<1h	Tripping	The current rise steadily to a fixed value within 5s
c	B, C, D	In ≤ 32	Cold state	2.55In	1s<t<60s	Tripping	
		In 32	Cold state	2.55In	1s<t<120s	Tripping	
	B	1~63	Cold state	3In	t ≤ 0.1s	Non-tripping	
				5In	t<0.1s	Tripping	
	C			5In	t ≤ 0.1s	Non-tripping	
				10In	t<0.1s	Tripping	
	D			10In	t ≤ 0.1s	Non-tripping	
				10In	t<0.1s	Tripping	

Characteristic Curve

MAB-63 1P Characteristic curve



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• Current correction values used at different ambient temperatures

Temperature Fixed current(A) Rated Current (A)	-35	-30	-20	-10	0	10	20	30	40	50	60	70
3A	3.9	3.78	3.69	3.57	3.42	3.3	3.12	3	2.88	2.79	2.64	2.49
6A	7.8	7.56	7.38	7.14	6.84	6.6	6.24	6	5.76	5.64	5.28	4.98
10A	13.2	12.7	12.5	12	11.5	11.1	10.6	10	9.6	9.3	8.9	8.4
16A	21.12	20.48	20	19.2	18.4	17.76	16.96	16	15.36	14.88	14.24	13.44
20A	26.4	25.6	25	24	23	22.2	21.2	20	19.2	18.6	17.8	16.8
25A	33	32	31.25	30	28.75	27.75	26.5	25	24	23.25	22.25	21
32A	42.56	41.28	40	38.72	37.12	35.52	33.93	32	30.72	29.76	28.16	26.88
40A	53.2	51.2	50	48	46.4	44.8	42.4	40	38.4	37.2	35.6	33.6
50A	67	65.5	63	60.5	58	56	53	50	48	46.5	44	41.5
63A	83.79	81.9	80.01	76.86	73.71	73.71	66.78	63	60.48	58.9	55.44	52.29

• Current correction factor used at different altitudes

Rated Current (A)	Different altitude correction factors		
	≤ 2000m	2000~3000m	≥ 3000m
3,6,10,16,20,25,32,40,50,63A	1.0	0.9	0.8

• Wire connection terminals

Rated current In(A)	Copper wire nominal cross sectional area(mm)
3,6	1
10	1.5
16,20	2.5
25	4
32	6
48	10
63	10