



MECB-63 1P



MECB-63 2P



MECB-63 3P



MECB-63 4P

■ Application

MECB-63 miniature circuit breaker is suitable for AC 50/60Hz rated voltage 230V/400V, rated current up to 63A lines for overload and short circuit protection, also under normal conditions as infrequent operation conversion of lines.

The circuit breakers are suitable for use in various places such as industrial, commercial, high-rise and civil housing.

Standards: GB/T 10963.1, IEC60898-1.

■ Types and meanings

AD B 3 - 63
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 1 2 3 4

- 1. Enterprise code
- 2. Miniature circuit breaker
- 3. Design serial number
- 4. Frame class rated current

■ Main parameters and technical performance

3.1 Main specifications

3.1.1 According to the rated current I_n is divided into:

1A, 2A, 3A, 4A, 5A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A;

3.1.2 According to the type of instantaneous decoupler:

Type B (3~5) I_n ; Type C (5~10) I_n ; Type D (10~20) I_n ,

3.1.3 Divided by the number of poles. Single-pole circuit breakers.

- a. One pole circuit breaker.
- b. Two poles circuit breaker.
- c. Three poles circuit breaker.
- d. Four poles circuit breaker.

3.2 Main technical parameters.

3.2.1 Rated short-circuit capacity (see Table 1).

Table 1

Rated current	Number of poles	Rated voltage (V)	Rated short circuit current (A)	Operating short circuit current (A)
1~63A	1	230/400	6000	6000
	2, 3, 4	400		

3.2.2 Mechanical and electrical life (see Table 2)

Table 2

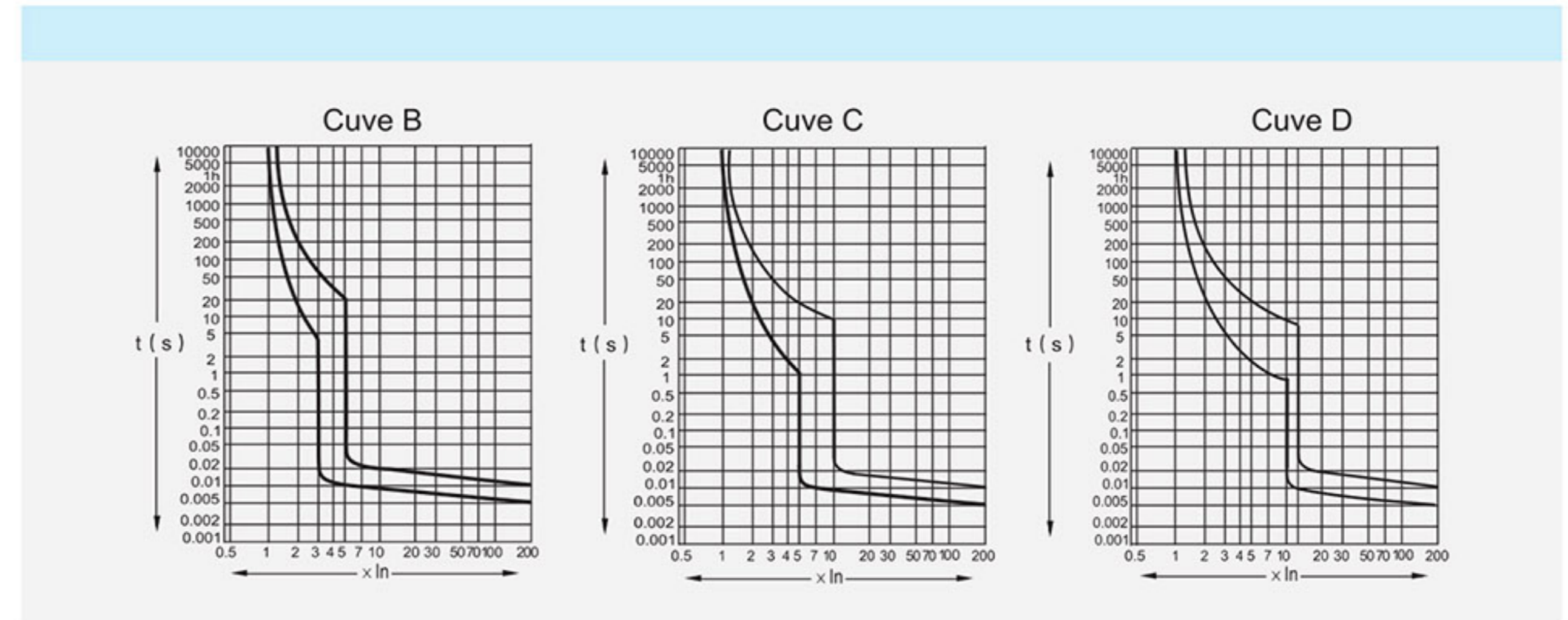
Category	Times	Operation frequency (Times/hour)	Rated current
Electrical life	10000	240	1~32
		120	40~63
Mechanical life	20000	240	1~63

3.2.3 Overcurrent protection characteristics (at 30°C to 35°C) (see Table 3)

Table 3

No.	Rated current of release (A)	Initial state	Test current	Rated time	Expected results	Remark
1	1~63	Cold state	1.13 I_n	$t \leq 1h$	Non-trip	Current rises steadily to the specified value within 5s
2	1~63	Performed immediately after the previous test	1.45 I_n	$t < 1h$	Trip	
3	$I_n \leq 32$	Cold state	2.55 I_n	$1s < t < 60s$	Trip	
	$I_n > 32$	Cold state	2.55 I_n	$1s < t < 120s$	Trip	
4	1~63	Cold state	3 I_n	$t \leq 0.1s$	Non-trip	Curve B
			5 I_n	$t < 0.1s$	Trip	
			5 I_n	$t \leq 0.1s$	Non-trip	Curve C
			10 I_n	$t < 0.1s$	Trip	
			10 I_n	$t \leq 0.1s$	Non-trip	Curve D
20 I_n	$t < 0.1s$	Trip				

3.2.4 Release characteristic curve



3.2.5 Wiring: for wire connections up to 25mm² (see Table 4), wiring method with screws, torque 2N·m.

Table 4

Rated current In(A)	1~6	10	16、20	25	32	40、50	63
Nominal cross-sectional area of copper conductors (mm ²)	1	1.5	2.5	4	6	10	16

■ Main parameters and technical performance

4.1 Structural features

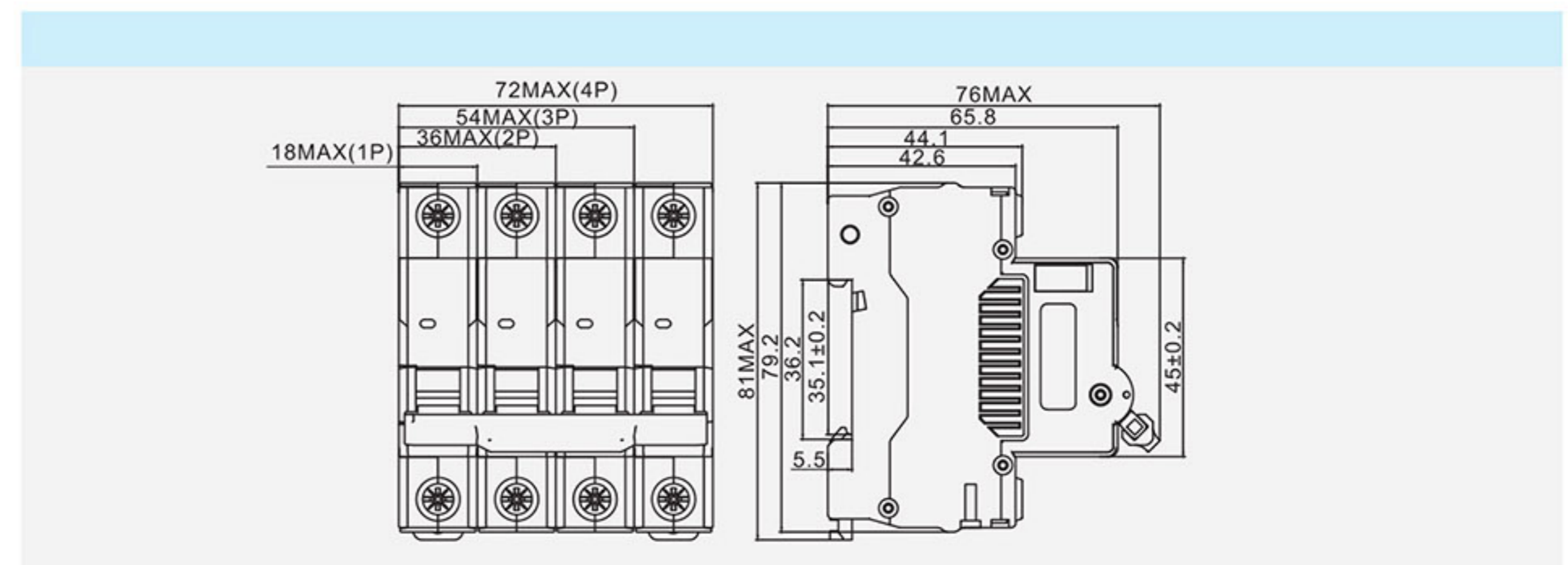
- 4.1.1 High rated short-circuit breaking capacity, all rated short-circuit current levels can reach 6kA.
- 4.1.2 Combined terminal block with finger touch protection and red and green safety indication, higher safety.
- 4.1.3 The shell and some functional parts are made of highly flame-retardant, high-temperature and impact-resistant plastics imported from abroad.
- 4.1.4 Applicable working conditions and working environment.
 - a. Ambient temperature: Ambient temperature -25°C ~ +60°C, when the ambient temperature is not the benchmark of 30°C, refer to the coefcient correction of (Table 5).
 - b. Altitude: The altitude of the installation site should not exceed 2000m.c.
Mounting method: TH35-7.5 steel mounting rail is used for mounting.

4.2 With isolation function

Table 5

Ambient temperature °C	-30	-20	-10	0	10	20	30	40	50	60
Current correction factor	1.30	1.25	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

■ Outline and installation dimensions



■ Ordering specifications

- 6.1 Product type and name, e.g. MECB-63 miniature circuit breaker.
- 6.2 Number of poles, e.g. 2P.
- 6.3 Type of instantaneous release and rated current, e.g. C20.
- 6.4 Example of an order: MECB-63 miniature circuit breaker, 2P, C20, 500 units.