

# EP06K Series

## Miniature Circuit Breaker

### Technical data

Standard	Confirming to EN / IEC60898
Breaking capacity	6kA
Protection	Against overload and short circuit
Rated current $I_n$	0.5, 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A
Rated voltage	1pole 230/400V AC 50/60Hz 2, 3, 4pole 400V AC 50/60Hz Rated insulation voltage $U_i$ : 500V Rated impulse withstand voltage $U_{imp}$ : 6000V Energy limiting class: 3
Ambient temperature	-5°C to +40°C pursuant to EN / IEC60898
Characteristic	Thermal operating limit: $(1.13-1.45) \times I_n$ Magnetic operating: B: $(3-5) \times I_n$ C: $(5-10) \times I_n$ D: $(10-20) \times I_n$
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 <sup>2</sup> flexible or 25mm <sup>2</sup> rigid up to 25A ratings 25mm <sup>2</sup> flexible or 35mm <sup>2</sup> rigid for 32A to 63A ratings
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.5mm per pole



## EP06K MCB



1P



1P+N



2P

Rated current (A)	B curve	C curve	D curve	Packing unit
0.5	EP06K/1-B0.5	EP06K/1-C0.5	EP06K/1-D0.5	12
1	EP06K/1-B1	EP06K/1-C1	EP06K/1-D1	12
2	EP06K/1-B2	EP06K/1-C2	EP06K/1-D2	12
3	EP06K/1-B3	EP06K/1-C3	EP06K/1-D3	12
4	EP06K/1-B4	EP06K/1-C4	EP06K/1-D4	12
6	EP06K/1-B6	EP06K/1-C6	EP06K/1-D6	12
10	EP06K/1-B10	EP06K/1-C10	EP06K/1-D10	12
13	EP06K/1-B13	EP06K/1-C13	EP06K/1-D13	12
16	EP06K/1-B16	EP06K/1-C16	EP06K/1-D16	12
20	EP06K/1-B20	EP06K/1-C20	EP06K/1-D20	12
25	EP06K/1-B25	EP06K/1-C25	EP06K/1-D25	12
32	EP06K/1-B32	EP06K/1-C32	EP06K/1-D32	12
40	EP06K/1-B40	EP06K/1-C40	EP06K/1-D40	12
50	EP06K/1-B50	EP06K/1-C50	EP06K/1-D50	12
63	EP06K/1-B63	EP06K/1-C63	EP06K/1-D63	12
0.5	EP06K/1-B0.5N	EP06K/1-C0.5N	EP06K/1-D0.5N	6
1	EP06K/1-B1N	EP06K/1-C1N	EP06K/1-D1N	6
2	EP06K/1-B2N	EP06K/1-C2N	EP06K/1-D2N	6
3	EP06K/1-B3N	EP06K/1-C3N	EP06K/1-D3N	6
4	EP06K/1-B4N	EP06K/1-C4N	EP06K/1-D4N	6
6	EP06K/1-B6N	EP06K/1-C6N	EP06K/1-D6N	6
10	EP06K/1-B10N	EP06K/1-C10N	EP06K/1-D10N	6
13	EP06K/1-B13N	EP06K/1-C13N	EP06K/1-D13N	6
16	EP06K/1-B16N	EP06K/1-C16N	EP06K/1-D16N	6
20	EP06K/1-B20N	EP06K/1-C20N	EP06K/1-D20N	6
25	EP06K/1-B25N	EP06K/1-C25N	EP06K/1-D25N	6
32	EP06K/1-B32N	EP06K/1-C32N	EP06K/1-D32N	6
40	EP06K/1-B40N	EP06K/1-C40N	EP06K/1-D40N	6
50	EP06K/1-B50N	EP06K/1-C50N	EP06K/1-D50N	6
63	EP06K/1-B63N	EP06K/1-C63N	EP06K/1-D63N	6
0.5	EP06K/2-B0.5	EP06K/2-C0.5	EP06K/2-D0.5	6
1	EP06K/2-B1	EP06K/2-C1	EP06K/2-D1	6
2	EP06K/2-B2	EP06K/2-C2	EP06K/2-D2	6
3	EP06K/2-B3	EP06K/2-C3	EP06K/2-D3	6
4	EP06K/2-B4	EP06K/2-C4	EP06K/2-D4	6
6	EP06K/2-B6	EP06K/2-C6	EP06K/2-D6	6
10	EP06K/2-B10	EP06K/2-C10	EP06K/2-D10	6
13	EP06K/2-B13	EP06K/2-C13	EP06K/2-D13	6
16	EP06K/2-B16	EP06K/2-C16	EP06K/2-D16	6
20	EP06K/2-B20	EP06K/2-C20	EP06K/2-D20	6
25	EP06K/2-B25	EP06K/2-C25	EP06K/2-D25	6
32	EP06K/2-B32	EP06K/2-C32	EP06K/2-D32	6
40	EP06K/2-B40	EP06K/2-C40	EP06K/2-D40	6
50	EP06K/2-B50	EP06K/2-C50	EP06K/2-D50	6
63	EP06K/2-B63	EP06K/2-C63	EP06K/2-D63	6

## EP06K MCB



3P



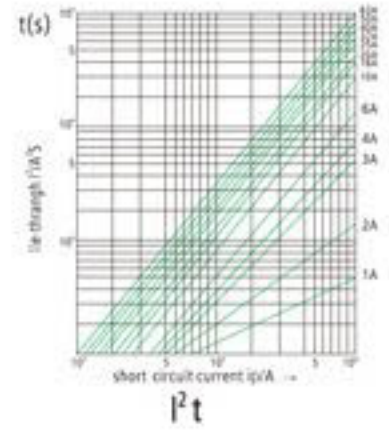
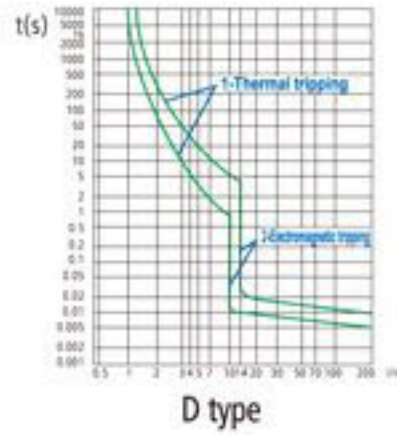
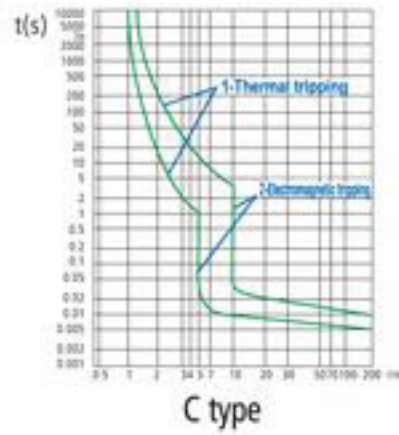
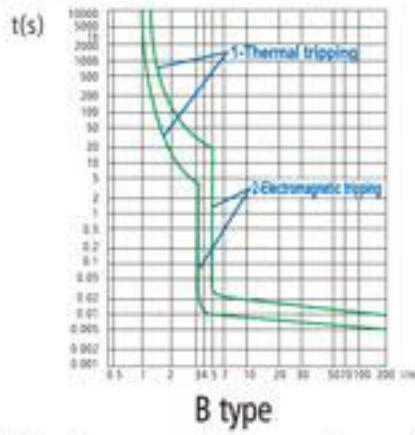
3P+N



4P

Rated current (A)	B curve	C curve	D curve	Packing unit
0.5	EP06K/3-B0.5	EP06K/3-C0.5	EP06K/3-D0.5	4
1	EP06K/3-B1	EP06K/3-C1	EP06K/3-D1	4
2	EP06K/3-B2	EP06K/3-C2	EP06K/3-D2	4
3	EP06K/3-B3	EP06K/3-C3	EP06K/3-D3	4
4	EP06K/3-B4	EP06K/3-C4	EP06K/3-D4	4
6	EP06K/3-B6	EP06K/3-C6	EP06K/3-D6	4
10	EP06K/3-B10	EP06K/3-C10	EP06K/3-D10	4
13	EP06K/3-B13	EP06K/3-C13	EP06K/3-D13	4
16	EP06K/3-B16	EP06K/3-C16	EP06K/3-D16	4
20	EP06K/3-B20	EP06K/3-C20	EP06K/3-D20	4
25	EP06K/3-B25	EP06K/3-C25	EP06K/3-D25	4
32	EP06K/3-B32	EP06K/3-C32	EP06K/3-D32	4
40	EP06K/3-B40	EP06K/3-C40	EP06K/3-D40	4
50	EP06K/3-B50	EP06K/3-C50	EP06K/3-D50	4
63	EP06K/3-B63	EP06K/3-C63	EP06K/3-D63	4
0.5	EP06K/3-B0.5N	EP06K/3-C0.5N	EP06K/3-D0.5N	3
1	EP06K/3-B1N	EP06K/3-C1N	EP06K/3-D1N	3
2	EP06K/3-B2N	EP06K/3-C2N	EP06K/3-D2N	3
3	EP06K/3-B3N	EP06K/3-C3N	EP06K/3-D3N	3
4	EP06K/3-B4N	EP06K/3-C4N	EP06K/3-D4N	3
6	EP06K/3-B6N	EP06K/3-C6N	EP06K/3-D6N	3
10	EP06K/3-B10N	EP06K/3-C10N	EP06K/3-D10N	3
13	EP06K/3-B13N	EP06K/3-C13N	EP06K/3-D13N	3
16	EP06K/3-B16N	EP06K/3-C16N	EP06K/3-D16N	3
20	EP06K/3-B20N	EP06K/3-C20N	EP06K/3-D20N	3
25	EP06K/3-B25N	EP06K/3-C25N	EP06K/3-D25N	3
32	EP06K/3-B32N	EP06K/3-C32N	EP06K/3-D32N	3
40	EP06K/3-B40N	EP06K/3-C40N	EP06K/3-D40N	3
50	EP06K/3-B50N	EP06K/3-C50N	EP06K/3-D50N	3
63	EP06K/3-B63N	EP06K/3-C63N	EP06K/3-D63N	3
0.5	EP06K/4-B0.5	EP06K/4-C0.5	EP06K/4-D0.5	3
1	EP06K/4-B1	EP06K/4-C1	EP06K/4-D1	3
2	EP06K/4-B2	EP06K/4-C2	EP06K/4-D2	3
3	EP06K/4-B3	EP06K/4-C3	EP06K/4-D3	3
4	EP06K/4-B4	EP06K/4-C4	EP06K/4-D4	3
6	EP06K/4-B6	EP06K/4-C6	EP06K/4-D6	3
10	EP06K/4-B10	EP06K/4-C10	EP06K/4-D10	3
13	EP06K/4-B13	EP06K/4-C13	EP06K/4-D13	3
16	EP06K/4-B16	EP06K/4-C16	EP06K/4-D16	3
20	EP06K/4-B20	EP06K/4-C20	EP06K/4-D20	3
25	EP06K/4-B25	EP06K/4-C25	EP06K/4-D25	3
32	EP06K/4-B32	EP06K/4-C32	EP06K/4-D32	3
40	EP06K/4-B40	EP06K/4-C40	EP06K/4-D40	3
50	EP06K/4-B50	EP06K/4-C50	EP06K/4-D50	3
63	EP06K/4-B63	EP06K/4-C63	EP06K/4-D63	3

## 1. Curves



## 2. Endurance(operations)

Category	Operations	Operation frequency	Rated current (A)
Electrical endurance	4000	240/h	0.5~32
		120/h	40~63
Mechanical endurance	10000	240/h	0.5~63

## 3. Please refer to table below for temperature compensation correction

In A	Temperature compensation coefficient under various operational temperature									
	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	55°C	60°C	
1~6	1.20	1.14	1.09	1.05	1.00	0.96	0.80	0.75	0.70	
10~32	1.18	1.12	1.08	1.04	1.00	0.96	0.92	0.88	0.84	
40~63	1.16	1.12	1.08	1.03	1.00	0.9	0.87	0.83	0.80	

## 4. Wiring

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

Rated current In(A)	Nominal cross section area (mm <sup>2</sup> )	Tightening torque (N.m)
1~6	1	2
10	1.5	2
13,16, 20	2.5	2
25	4	2
32	6	2
40, 50	10	2
63	16	2

## 5. Features

The breaker is characterized by compact design, light weight, elegant appearance, high breaking capacity, swift releasing, long service life. Different handle color for different rated current, with contactor condition indicator.

## 6. Overall and mounting dimensions

