

## EP-DPN Series "Phase+Neutral" Circuit Breaker

### Technical data

Standard	EN / IEC60898-1
Breaking capacity	3kA, 4.5kA, 6kA
Protection	Overload and short circuit
Rated insulation voltage $U_i$	250 V
Rated impulse withstand voltage $U_{imp}$	4000V
Rated current $I_n$	1,2,4,6,10,16,20,25,32A
Rated voltage	240VAC
Characteristic	B,C Curve
Number of poles	1P+N
Type of trip	Thermal / magnetic release
Type of terminal	Pin type
Terminal capacity	1-10mm <sup>2</sup> wire
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Electrical endurance	4000
Mechanical endurance	10000
Altitude	≤2000m
Relative humidity	+20°C, ≤95%, ±40°C ≤50%



EP-DPN3K



EP-DPN4.5K



EP-DPN6K

## EP-DPN MCB



EP-DPN3K



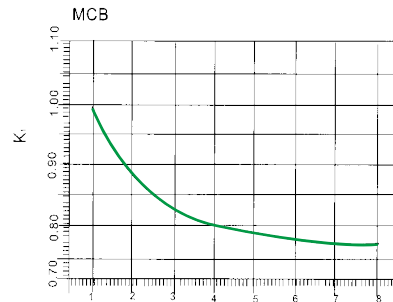
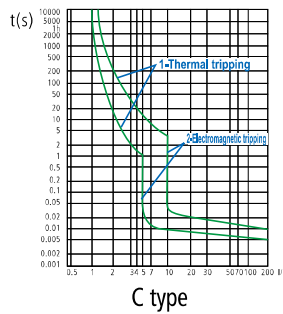
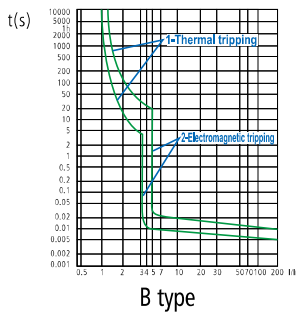
EP-DPN4.5K



EP-DPN6K

Rated current (A)	B curve	C curve	Packing unit
1	EP-DPN3K-B 1	EP-DPN3K-C 1	12
2	EP-DPN3K-B2	EP-DPN3K-C2	12
4	EP-DPN3K-B4	EP-DPN3K-C4	12
6	EP-DPN3K-B6	EP-DPN3K-C6	12
10	EP-DPN3K-B10	EP-DPN3K-C10	12
16	EP-DPN3K-B16	EP-DPN3K-C16	12
20	EP-DPN3K-B20	EP-DPN3K-C20	12
25	EP-DPN3K-B25	EP-DPN3K-C25	12
32	EP-DPN3K-B32	EP-DPN3K-C32	12
1	EP-DPN4.5K-B 1	EP-DPN4.5K-C 1	12
2	EP-DPN4.5K-B2	EP-DPN4.5K-C2	12
4	EP-DPN4.5K-B4	EP-DPN4.5K-C4	12
6	EP-DPN4.5K-B6	EP-DPN4.5K-C6	12
10	EP-DPN4.5K-B10	EP-DPN4.5K-C10	12
16	EP-DPN4.5K-B16	EP-DPN4.5K-C16	12
20	EP-DPN4.5K-B20	EP-DPN4.5K-C20	12
25	EP-DPN4.5K-B25	EP-DPN4.5K-C25	12
32	EP-DPN4.5K-B32	EP-DPN4.5K-C32	12
1	EP-DPN6K-B1	EP-DPN6K-C 1	12
2	EP-DPN6K-B2	EP-DPN6K-C2	12
4	EP-DPN6K-B4	EP-DPN6K-C4	12
6	EP-DPN6K-B6	EP-DPN6K-C6	12
10	EP-DPN6K-B10	EP-DPN6K-C10	12
16	EP-DPN6K-B16	EP-DPN6K-C16	12
20	EP-DPN6K-B20	EP-DPN6K-C20	12
25	EP-DPN6K-B25	EP-DPN6K-C25	12
32	EP-DPN6K-B32	EP-DPN6K-C32	12

## 1. Curves



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

Rated current (A)	Temperature compensation coefficient under various operational temperature							
	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
1	1.17	1.13	1.09	1.04	1	0.96	0.91	0.84
2	1.17	1.13	1.09	1.04	2	0.96	0.91	0.84
4	1.17	1.13	1.09	1.04	4	0.96	0.91	0.84
6	1.17	1.13	1.09	1.04	6	0.96	0.91	0.84
10	1.21	1.16	1.09	1.04	10	0.94	0.88	0.82
16	1.18	1.13	1.09	1.04	16	0.94	0.91	0.84
20	1.17	1.13	1.09	1.04	20	0.96	0.91	0.84
25	1.18	1.13	1.09	1.04	25	0.96	0.91	0.84
32	1.17	1.13	1.09	1.04	32	0.96	0.91	0.84

## 3. Wiring

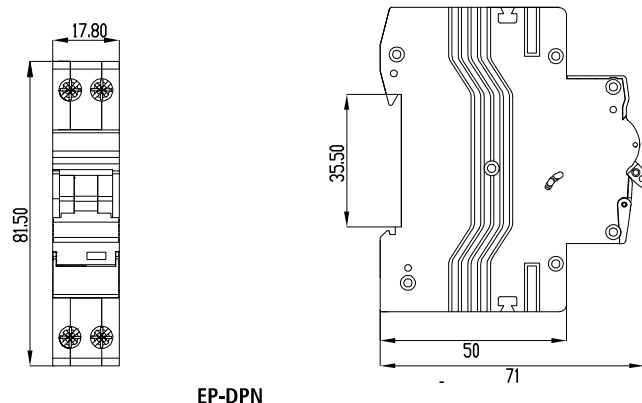
The suitable conductors should be used for connection, see table below for relative parameters.

Rated current $I_n$ (A)	Nominal cross section area $s$ (mm <sup>2</sup> )	Tightening torque (N.m)
≤6	1	1.2
10	1.5	1.2
16~20	2.5	1.2
25	4	1.2
32	6	1.2

## 4. Features

- Compact design and cost-effective;
- Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties;
- Potential electric shock is avoided thanks to neutral-line being directly connected to the product;
- Convenient and time-saving mounting.

## 5. Overall and mounting dimensions



EP-DPN