

SG-DPN Series “Phase+Neutral” Miniature Circuit Breaker

Technical data

Standard	EN/ IEC60898-1
Breaking capacity	3kA, 4.5kA, 6kA
Protection	Overload and short circuit
Rated insulation voltage U_i	500V
Rated impulse withstand voltage U_{imp}	4kV
Rated current I_n	2, 4, 6, 10, 13, 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 ² wire
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Electrical endurance	4000
Mechanical endurance	10000
Altitude	≤2000m



SG-DPN3K



SG-DPN4.5K



SG-DPN6K

SG-DPN MCB



SG-DPN3K



SG-DPN4.5K



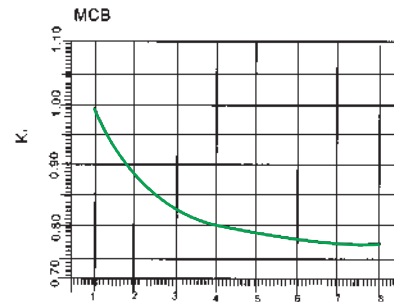
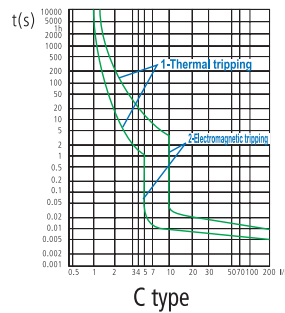
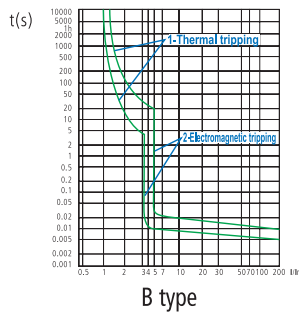
SG-DPN6K

Rated current(A)	B curve	C curve	Packing unit
2	SG-DPN3K-B2	SG-DPN3K-C2	12
4	SG-DPN3K-B4	SG-DPN3K-C4	12
6	SG-DPN3K-B6	SG-DPN3K-C6	12
10	SG-DPN3K-B10	SG-DPN3K-C10	12
13	SG-DPN3K-B13	SG-DPN3K-C13	12
16	SG-DPN3K-B16	SG-DPN3K-C16	12
20	SG-DPN3K-B20	SG-DPN3K-C20	12
25	SG-DPN3K-B25	SG-DPN3K-C25	12
32	SG-DPN3K-B32	SG-DPN3K-C32	12

2	SG-DPN4.5K-B2	SG-DPN4.5K-C2	12
4	SG-DPN4.5K-B4	SG-DPN4.5K-C4	12
6	SG-DPN4.5K-B6	SG-DPN4.5K-C6	12
10	SG-DPN4.5K-B10	SG-DPN4.5K-C10	12
13	SG-DPN4.5K-B13	SG-DPN4.5K-C13	12
16	SG-DPN4.5K-B16	SG-DPN4.5K-C16	12
20	SG-DPN4.5K-B20	SG-DPN4.5K-C20	12
25	SG-DPN4.5K-B25	SG-DPN4.5K-C25	12
32	SG-DPN4.5K-B32	SG-DPN4.5K-C32	12

2	SG-DPN6K-B2	SG-DPN6K-C2	12
4	SG-DPN6K-B4	SG-DPN6K-C4	12
6	SG-DPN6K-B6	SG-DPN6K-C6	12
10	SG-DPN6K-B10	SG-DPN6K-C10	12
13	SG-DPN6K-B13	SG-DPN6K-C13	12
16	SG-DPN6K-B16	SG-DPN6K-C16	12
20	SG-DPN6K-B20	SG-DPN6K-C20	12
25	SG-DPN6K-B25	SG-DPN6K-C25	12
32	SG-DPN6K-B32	SG-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

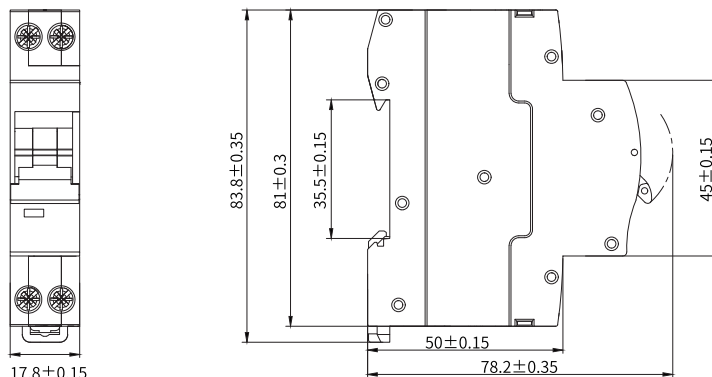
The suitable conductors should be used for connection, see table below for relative parameters.

Rated current I_n (A)	Nominal cross section area s (mm ²)	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



SG-DPN