

MCB SERIES

Miniature Circuit Breaker



Products Overview of Circuit Breakers

Product name	DPN MCB		
Product range	SG-DPN		
Product picture			
Standard	GB/T 10963.1 IEC/EN 60898-1		
Number of poles	1P+N		
Electrical characteristics			
Rated current(A) In	2-32		
Rated voltage(V)	AC 240		
AC rated short-circuit capacity(kA)			
Breaking capacity (Icn/Icu)kA	3	4.5	6
Tripping curve	B,C		
Type	AC		
Electrical auxiliaries	Auxiliary contact Alarm contact Shunt trip Over/under voltage trip		
Catalogue page NO.	74-76		

SG - DPN Series

“ Phase+Neutral ” Circuit Breaker

Standard	EN/IEC60898-1 GB/T 10963.1
Breaking capacity(kA)	3,4,5,6
Protection	Overload and short circuit
Rated insulation voltage Ui(V)	500
Rated impulse withstand voltage Uimp(kV)	4
Rated current(A) In	2,4,6,10,13,16,20,25,32
Rated voltage(V)	AC 240
Characteristic	B,C Curve
Number of poles	1P+N
Type of trip	Thermal/magnetic release
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
Certification	  



SG-DPN3K



SG-DPN4.5K



SG-DPN4.5K

SG-DPN Series

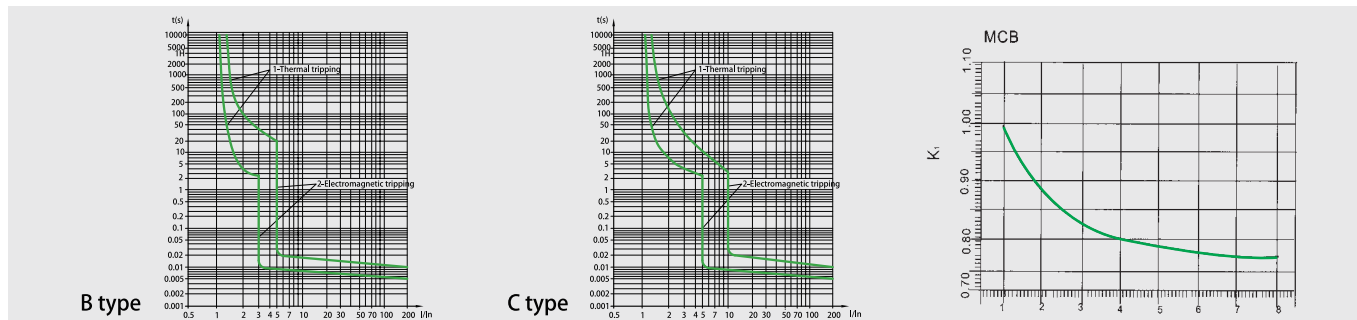
“ Phase+Neutral ” Circuit Breaker

	Rated current(A)	B curve	C curve	Packing unit
 SG-DPN3K	2	SG-DPN3K-B2	SG-DPN3K-C2	12
	4	SG-DPN3K-B4	SG-DPN3K-C4	
	6	SG-DPN3K-B6	SG-DPN3K-C6	
	10	SG-DPN3K-B10	SG-DPN3K-C10	
	13	SG-DPN3K-B13	SG-DPN3K-C13	
	16	SG-DPN3K-B16	SG-DPN3K-C16	
	20	SG-DPN3K-B20	SG-DPN3K-C20	
	25	SG-DPN3K-B25	SG-DPN3K-C25	
	32	SG-DPN3K-B32	SG-DPN3K-C32	
 SG-DPN4.5K	2	SG-DPN4.5K-B2	SG-DPN4.5K-C2	12
	4	SG-DPN4.5K-B4	SG-DPN4.5K-C4	
	6	SG-DPN4.5K-B6	SG-DPN4.5K-C6	
	10	SG-DPN4.5K-B10	SG-DPN4.5K-C10	
	13	SG-DPN4.5K-B13	SG-DPN4.5K-C13	
	16	SG-DPN4.5K-B16	SG-DPN4.5K-C16	
	20	SG-DPN4.5K-B20	SG-DPN4.5K-C20	
	25	SG-DPN4.5K-B25	SG-DPN4.5K-C25	
	32	SG-DPN4.5K-B32	SG-DPN4.5K-C32	
 SG-DPN6K	2	SG-DPN6K-B2	SG-DPN6K-C2	12
	4	SG-DPN6K-B4	SG-DPN6K-C4	
	6	SG-DPN6K-B6	SG-DPN6K-C6	
	10	SG-DPN6K-B10	SG-DPN6K-C10	
	13	SG-DPN6K-B13	SG-DPN6K-C13	
	16	SG-DPN6K-B16	SG-DPN6K-C16	
	20	SG-DPN6K-B20	SG-DPN6K-C20	
	25	SG-DPN6K-B25	SG-DPN6K-C25	
	32	SG-DPN6K-B32	SG-DPN6K-C32	

SG-DPN Series

“Phase+Neutral” Circuit Breaker

Curves



Please refer to table below for temperature compensation correction

Rated current (A)	Temperature compensation coefficient under various operational temperature														
	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
1	1.23	1.20	1.18	1.16	1.14	1.12	1.10	1.07	1.05	1.03	1.00	0.98	0.95	0.92	0.90
2	1.31	1.28	1.25	1.23	1.20	1.17	1.13	1.10	1.07	1.04	1.00	0.96	0.93	0.89	0.85
4	1.24	1.21	1.19	1.17	1.15	1.12	1.10	1.08	1.05	1.03	1.00	0.97	0.95	0.92	0.89
6	1.22	1.20	1.18	1.16	1.14	1.12	1.10	1.07	1.05	1.02	1.00	0.97	0.95	0.92	0.89
10	1.23	1.21	1.19	1.16	1.14	1.12	1.10	1.07	1.05	1.03	1.00	0.97	0.95	0.92	0.89
16	1.22	1.20	1.18	1.16	1.14	1.12	1.10	1.07	1.05	1.02	1.00	0.97	0.95	0.92	0.89
20	1.23	1.21	1.19	1.17	1.14	1.12	1.10	1.07	1.05	1.03	1.00	0.97	0.95	0.92	0.89
25	1.24	1.22	1.19	1.17	1.15	1.13	1.10	1.08	1.05	1.03	1.00	0.97	0.95	0.92	0.89
32	1.26	1.23	1.21	1.19	1.16	1.14	1.11	1.08	1.06	1.03	1.00	0.97	0.94	0.91	0.88

Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

Rated current I_n (A)	Nominal cross sectional area(mm ²)	Tightening torque (N.m)
≤6	1	2
10	1.5	
16-20	2.5	
25	4	
32	6	

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.

Overall and mounting dimensions

