

### Electrical Characteristics

Family	SB								
Number of poles	1P - 2P - 3P - 4P								
Frame size	Frame size 1			Frame size 2		Frame size 3			
Thermal current I <sub>th</sub> (40°C)	16A	25A	32A	40A	63A	80A	100A	125A	
Operational frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Rated insulation voltage (U <sub>i</sub> )	500 V	500 V	500 V	500 V	500 V	500 V	500 V	500 V	500 V
Rated impulse withstand voltage U <sub>imp</sub>	3 kV	3 kV	3 kV	6 kV	6 kV	6 kV	6 kV	6 kV	6 kV
Protection degree	2	2	2	3	3	3	3	3	3
Working temperature	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C
Storage temperature	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C	-40 to 80°C

### Operational Currents I<sub>e</sub>

Rated voltage		Load duty category								
Single Phase	Multi Phase									
230V AC	400V AC	AC 21A	16A	25A	32A	40A	63A	80A	100A	125A
230V AC	400V AC	AC 22B	16A	25A	32A	40A	63A	80A	100A	125A
230V AC	400V AC	AC 22A	16A	25A	32A	40A	63A	80A	100A	125A
230V AC	400V AC	AC 23A	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA

### Short circuit characteristic

Rated short time withstand current 1s I <sub>CW</sub> (rms)	IEC 60947-3	480A / 1sec			945A / 1 sec		1500A / 1sec		
Prospective short circuit current (rms)	EN 60669	3kA	3kA	3kA	6kA	6kA	n/a	n/a	n/a
Associated fuse links (gG)		16A	25A	32A	40A	63A	n/a	n/a	n/a

### Mechanical characteristic

Rigid cable section	16 mm <sup>2</sup>	16 mm <sup>2</sup>	16 mm <sup>2</sup>	25 mm <sup>2</sup>	25 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>	50 mm <sup>2</sup>
flexible cable section	10 mm <sup>2</sup>	10 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>	16 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>
Tightening torque	1.8 Nm	1.8 Nm	1.8 Nm	2.8 Nm	2.8 Nm	3.6 Nm	3.6 Nm	3.6 Nm
IP protection degree	20	20	20	20	20	20	20	20
Mechanical endurance (number of cycle)	100,000	100,000	100,000	30,000	30,000	20,000	20,000	20,000
Electrical endurance @ AC22 (number of cycles)	25,000	25,000	25,000	5,000	5,000	2,500	2,500	2,500

### Overall dimension

Width (mm)	1P	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
	2P	17.5	17.5	17.5	35	35	35	35	35
	3P	35	35	35	52.5	52.5	52.5	52.5	52.5
	4P	35	35	35	70	70	70	70	70
Height (mm)		83	83	83	83	83	83	83	83
Depth (mm)		72	72	72	72	72	72	72	72