

**SWITCHGEAR**

**SWITCH - DISCONNECTORS S5000**

**Technical Information**

According IEC / EN 60947-3					40	63	80	125	160	200	250C	250	
					00	00	00	0	0	0	0	1	
					Size								
Rated thermal current	lth	in ambient	40 °C	A	50	63	80	125	160	200	250	250	
			50 °C	A	50	63	80	125	160	200	250	250	
			65 °C	A	35	44	56	90	110	140	175	175	
Rated insulation voltage	Ui	50 Hz., 1 min.		V	800	800	800	1000	1000	1000	1000	1000	
Rated dielectric strength	50 Hz., 1 min.				V	3500	3500	3500	4000	4000	4000	5000	5000
Rated impulse withstand voltage	Uimp				kV	8	8	8	8	8	8	8	
AC rated operational current <sup>(1)</sup> (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	50	63	80	125	160	200	250	250	
		400V	AC22A	A	50	63	80	125	160	200	250 <sup>(7)</sup>	250	
		400V	AC23A	A	50	63	63	125	160	160	160	250	
		500V	AC21A	A	50	63	80	125	160	200	200	250	
		500V	AC22A	A	50	63	63	125	160	200	200	250	
		500V	AC23A	A	40	50	50	100	125	125	125	200	
		690V	AC20A	A	50	63	80	125	160	200	250	250	
		690V	AC21A	A	50	63	63	125	160	180	180	250	
		690V	AC22A	A	40	50	50	100	125	160	160	200	
		690V	AC23A	A	25	32	32	80	80	80	80	160	
		800V	AC20A	A	-	-	-	125	160	200	250	250	
1000V	AC20A	A	-	-	-	125	160	200	250	250			
DC rated operational current <sup>(2)</sup>	Ie	48V	DC23A (II)	A	80	100	100	200	200	200	250	500	
		110V	DC21A (II)	A	63	63	80	160	160	200	200	315	
		110V	DC23A (I)	A	40	63	80	125	160	160	160	250	
		230V	DC21A (I)	A	40	63	80	125	160	160	160	250	
		230V	DC23A (I)	A	40	63	63	125	125	125	125	250	
		400V	DC21A (I)	A	20	25	25	63	63	63	63	250	
		400V	DC23A (I)	A	-	-	-	-	-	-	-	200	
		500V	DC20A (II)	A	80	125	125	250	250	250	250	500	
		500V	DC23A (I)	A	-	-	-	-	-	-	-	200	
AC rated operational power <sup>(3)</sup>	Pe	3x230V	AC23A	kW	15,9	20	20	39,8	50,9	50,9	50,9	79,6	
		3x400V	AC23A	kW	27,7	34,9	34,9	69,2	88,6	88,6	88,6	138,5	
		3x500V	AC23A	kW	27,7	34,6	34,6	69,2	86,6	86,6	86,6	138,5	
		3x690V	AC23A	kW	23,9	30,5	30,5	76,4	76,4	76,4	76,4	152,9	
Rated capacitor power	400V, sen = 0,65		kVAr	22,5	28,3	28,3	56,2	72	72	72	112,5		
Rated breaking capacity	400V, cos = 0,35-0,45		A	400	504	504	1000	1280	1280	1280	2000		
Rated making capacity	400V, cos = 0,45		A	500	630	630	1250	1600	1600	1600	2500		
Short - circuit behaviour													
Short - circuit making capacity (peak value) <sup>(4)</sup>	Icm		kA (peak)	5	5	5	13	13	13	13	20		
Short - time withstand current (1sec)	Icw		kA rms	3	3	3	7	7	7	7	12		
Conditional short - circuit current (rms value) <sup>(5)</sup>			kA rms	100	100	100	100	100	100	100	100		
Maximum cut - off current (peak value)			kA (peak)	10	10	10	17	20	20	20	33		
Maximum power dissipation (I <sup>2</sup> t)			A <sup>2</sup> s (x10 <sup>3</sup> )	54,7	54,7	54,7	55	198	198	198	1000		
Minimum number of mechanical operations <sup>(6)</sup>			Cycles	30000	30000	30000	30000	30000	30000	30000	20000		
Minimum number of electrical operations <sup>(6)</sup>	400V	AC23	Cycles	1500	1500	1500	1000	1000	1000	1000	1000		
Maximum weight (3 / 4 poles)	S5		Kg	0,4 / 0,4	0,4 / 0,4	0,4 / 0,4	0,85 / 1	0,85 / 1	0,9 / 1	0,9 / 1	1,7 / 1,9		
	S5L		Kg	0,8 / 0,8	0,8 / 0,8	0,8 / 0,8	1,8 / 2	1,8 / 2	2,1 / 2,4	2,1 / 2,4	3,7 / 4,1		
	S5M / S5F / S5FD		Kg	-	-	-	1,8 / 2,1	1,8 / 2,1	1,9 / 2,2	1,9 / 2,2	5,5 / 5,8		
	S5B / S5BS		Kg	-	-	-	-	-	-	-	7,2 / 7,7		
Connecting capacity													
Rigid cable (Cu)			mm <sup>2</sup>	25	25	25	95	95	120	120	185		
Bar (Thickness / Width)			mm	-	-	-	5 / 25 <sup>(8)</sup>	5 / 25 <sup>(8)</sup>	5 / 30	5 / 30	7 / 25		
Tightening torque			Nm	2	2	2	4 / 13 <sup>(9)</sup>	4 / 13 <sup>(9)</sup>	13 / 18	13 / 18	18		

<sup>(1)</sup> Other voltages and / or utilization categories: please consult us

<sup>(2)</sup> For series (I) or Parallel (II) connection of 4P switches, see diagrams \*

<sup>(3)</sup> Indicative values: current values vary from one motor manufacturer to another

<sup>(4)</sup> Without limiting protective device (short - circuit maintained 50... 100 ms)

<sup>(5)</sup> With a protective device limiting the cut - off current and the joule integral to the indicated values

<sup>(6)</sup> Please consult us for more operations

<sup>(7)</sup> Rated operational current AC22B

<sup>(8)</sup> S5L: Neutral pole 18 mm

<sup>(9)</sup> Pillar / Lug type terminal