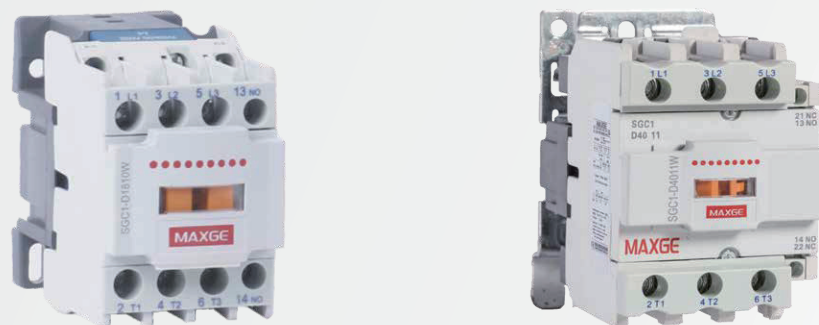












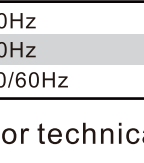

## SGC1-D Series AC Contactor

### Technical data

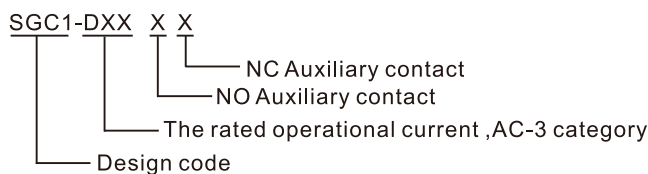
Standard	IEC60947-4-1	
Electric ratings	Up to 95A, 690V	
Approvals	SEMKO, CE, CB, TUV	
Operation range	Pick-up voltage	(85%~110%) U <sub>c</sub>
	Drop-out voltage	(20%~75%) U <sub>c</sub>
Rated insulation voltage U <sub>i</sub> (V)	690	
Rated impulse withstand voltage U <sub>imp</sub> (kV)	6	
Rated frequency(Hz)	50/60	
Utilization category	AC-3, AC-4	
Degree of protection	IP20	
Ambient air temperature(°C)	-5 to +40, max. 95% humidity	
Storage temperature(°C)	-40~+75	
Maximum operating altitude (meters)	≤2000	
Flame resistance	V1	



## 1. Selection and ordering data

	Rated Operational current in category AC-3 400V (A)	Number of poles		Instantaneous auxiliary contacts		Standard control circuit voltages (VAC)	Rated frequency (Hz)	Type	Model
									
	9	3	-	1	-	230	50/60	3NO+NO	SGC1-D0910
		3	-	-	1	230	50/60	3NO+NC	SGC1-D0901
		4	-	-	-	230	50/60	4NO	SGC1-D09004
		2	2	-	-	230	50/60	2NO+2NC	SGC1-D09008
	12	3	-	1	-	230	50/60	3NO+NO	SGC1-D1210
		3	-	-	1	230	50/60	3NO+NC	SGC1-D1201
		4	-	-	-	230	50/60	4NO	SGC1-D12004
		2	2	-	-	230	50/60	2NO+2NC	SGC1-D12008
	18	3	-	1	-	230	50/60	3NO+NO	SGC1-D1810
		3	-	-	1	230	50/60	3NO+NC	SGC1-D1801
		3	-	1	-	230	50/60	3NO+NO	SGC1-D2510
		3	-	-	1	230	50/60	3NO+NC	SGC1-D2501
	25	4	-	-	-	230	50/60	4NO	SGC1-D25004
		2	2	-	-	230	50/60	2NO+2NC	SGC1-D25008
		3	-	1	-	230	50/60	3NO+NO	SGC1-D3210
		3	-	-	1	230	50/60	3NO+NC	SGC1-D3201
	40	3	-	1	1	230	50/60	3NO+NO+NC	SGC1-D4011
		4	-	-	-	230	50/60	4NO	SGC1-D40004
		2	2	-	-	230	50/60	2NO+2NC	SGC1-D40008
		3	-	1	1	230	50/60	3NO+NO+NC	SGC1-D5011
	50	4	-	-	-	230	50/60	4NO	SGC1-D50004
		2	2	-	-	230	50/60	2NO+2NC	SGC1-D50008
		3	-	1	1	230	50/60	3NO+NO+NC	SGC1-D6511
		4	-	-	-	230	50/60	4NO	SGC1-D65004
	65	2	2	-	-	230	50/60	2NO+2NC	SGC1-D65008
		3	-	1	1	230	50/60	3NO+NO+NC	SGC1-D8011
		4	-	-	-	230	50/60	4NO	SGC1-D80004
		2	2	-	-	230	50/60	2NO+2NC	SGC1-D80008
	80	3	-	1	1	230	50/60	3NO+NO+NC	SGC1-D9511
		4	-	-	-	230	50/60	4NO	SGC1-D95004
		2	2	-	-	230	50/60	2NO+2NC	SGC1-D95008
		3	-	1	1	230	50/60	3NO+NO+NC	SGC1-D9511
	95	4	-	-	-	230	50/60	4NO	SGC1-D95004
		2	2	-	-	230	50/60	2NO+2NC	SGC1-D95008

## 2. Model explanation:



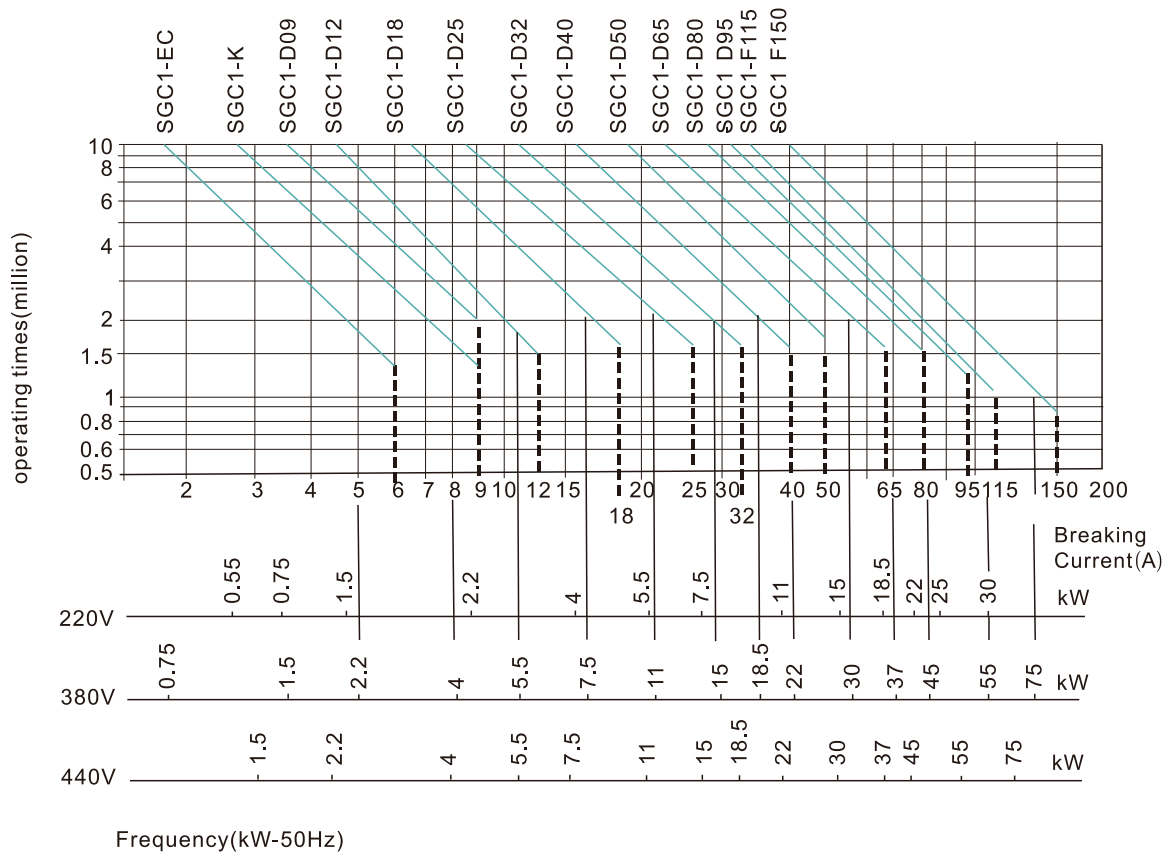
## 3. Refer to other coil voltage listed as followings:

Coil voltage(V)	24	36	48	110	127	220	230	240	380	415	440	480	500	600	660
50Hz	B5	C5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	T5	S5	-	Y5
60Hz	B6	-	E6	F6	G6	M6	P6	U6	Q6	N6	R6	T6	-	S6	-
50/60Hz	B7	C7	E7	F7	G7	M7	P7	U7	Q7	N7	R7	T7	-	-	-

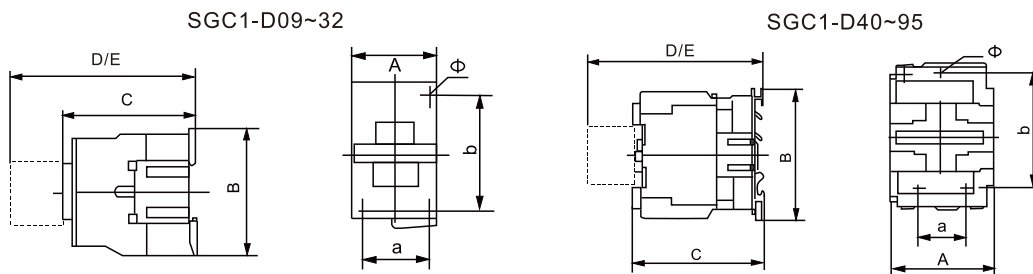
For technical data, see technical specifications for type SGC1-D Series



## 1. Electrical life curve for AC contactor SGC1-D

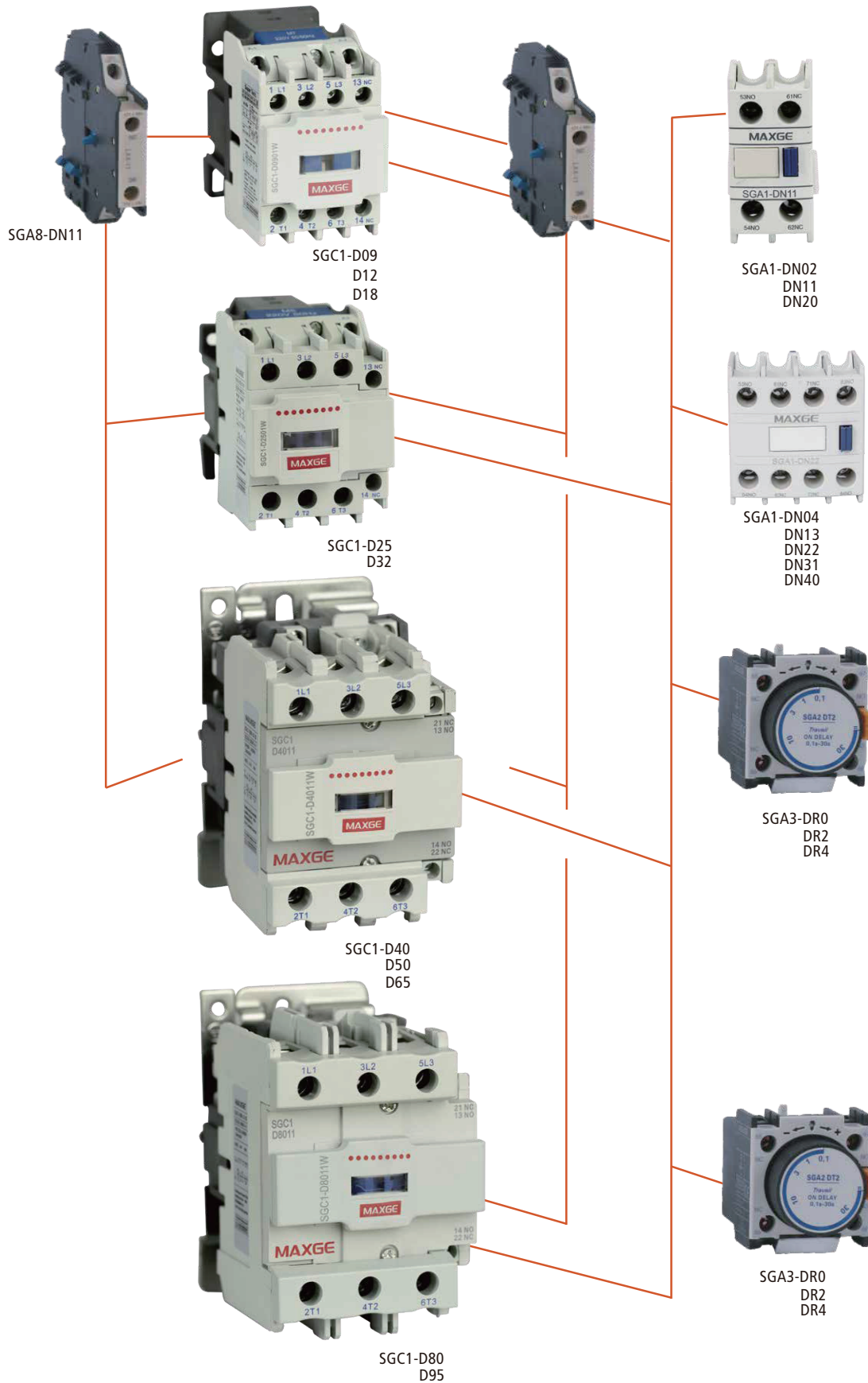


## 2. Overall and mounting dimensions(SGC1-D Series)





Type	A max	B max	C max	D max	E max	a	b	φ	
3P	SGC1-D09~12	47	76	82	113	133	34/35	50/60	2-/φ4.5
	SGC1-D18	47	76	87	118	138	34/35	50/60	2-/φ4.5
	SGC1-D25	57	86	95	126	146	40	48	2-/φ4.5
	SGC1-D32	57	86	100	131	151	40	48	2-/φ4.5
	SGC1-D40~65	77	129	116	145	165	40	100/110	3-/φ6.5
	SGC1-D80~95	87	129	127	156	176	40	100/110	3-/φ6.5
4P	SGC1-D09008~12008	47	76	82	113	133	34/35	50/60	2-/φ4.5
	SGC1-D25008	57	86	95	126	146	40	48	2-/φ4.5
	SGC1-D40008~65008	86	129	116/129	145	165	40	100/110	3-/φ6.5
	SGC1-D80008~95008	97	129	127/140	156	176	40	100/110	3-/φ6.5

## Schematic Diagram of SGC1,SGA1,SGA8,SGA3





## SGP1-D Series DC Operated AC Contactors




Model	Rated operating current 380V AC-3(A)	Conventional thermal current(A)	Standard power ratings of 3phase motors 50-60Hz AC-3			Auxiliary contact		Type
			220V/230V (kW)	380V/400V (kW)	660V/690V (kW)			
SGP1-D0910	9	20	2.2	4	5.5	1	-	3P+NO
SGP1-D0901						-	1	3P+NC
SGP1-D1210	12	20	3	5.5	7.5	1	-	3P+NO
SGP1-D1201						-	1	3P+NC
SGP1-D1810	18	32	4	7.5	9	1	-	3P+NO
SGP1-D1801						-	1	3P+NC
SGP1-D2510	25	40	5.5	11	15	1	-	3P+NO
SGP1-D2501						-	1	3P+NC
SGP1-D3210	32	50	7.5	15	18.5	1	-	3P+NO
SGP1-D3201						-	1	3P+NC
SGP1-D4011	40	60	11	18.5	30	1	1	3P+NO+NC
SGP1-D5011	50	80	15	22	33	1	1	3P+NO+NC
SGP1-D6511	65	80	18.5	30	37	1	1	3P+NO+NC
SGP1-D8011	80	125	22	37	45	1	1	3P+NO+NC
SGP1-D9511	95	125	25	45	45	1	1	3P+NO+NC

## SG19 Series Contactor for Power Factor Contactors




Model	Rated Conventional Thermal Current Ith	Controllable power			Auxiliary contact	
		220V/230V (Kvar)	380V/400V (Kvar)	660V/690V (Kvar)		
SG19-2511	25	6	12	12	1	1
SG19-2502					-	2
SG19-2520					2	-
SG19-3211	32	8.5	16	16	1	1
SG19-3202					-	2
SG19-3220					2	-
SG19-4311	43	10	20	20	1	1
SG19-4302					-	2
SG19-4320					2	-
SG19-5012	50	12	25	25	1	2
SG19-5021					2	1
SG19-6312	63	15	30	30	1	2
SG19-6321					2	1
SG19-8012	80	22	37	37	1	2
SG19-8021					2	1
SG19-9512	95	23	45	45	1	2
SG19-9521					2	1
SG19-12512	125	25	50	50	1	2
SG19-12521					2	1

## SGC2-D Series Mechanical Interlocking Contactors














Model	Rated operating current 400V AC-3 (A)	Standard power ratings of 3phase motors 50-60Hz AC-3					Poles
		220V/230V (kW)	380V/400V (kW)	415V (kW)	440V (kW)	660V/690V (kW)	
SGC2-D09	9	2.2	4	4	4	5.5	3
SGC2-D12	12	3	5.5	5.5	5.5	7.5	3
SGC2-D18	18	4	7.5	9	9	10	3
SGC2-D25	25	5.5	11	11	11	15	3
SGC2-D32	32	7.5	15	15	15	18.5	3
SGC2-D40	40	11	18.5	22	22	30	3
SGC2-D50	50	15	22	25	30	33	3
SGC2-D65	65	18.5	30	37	37	37	3
SGC2-D80	80	22	37	45	45	45	3
SGC2-D95	95	25	45	45	45	45	3

## SGC3-D Series Star-delta Reduced Voltage Starter



Model	Rated operating current 380V AC-3 (A)	Standard power ratings of 3phase motors 50-60Hz AC-3			
		220V/230V (kW)	380V/400V (kW)	415V (kW)	440V (kW)
SGC3-D093	9	4	7.5	7.5	7.5
SGC3-D123	12	5.5	11	11	11
SGC3-D183	18	7.5	15	15	18.5
SGC3-D253	25	11	18.5	18.5	22
SGC3-D323	32	15	25	25	30
SGC3-D403	40	18.5	33	33	37
SGC3-D503	50	25	45	45	59
SGC3-D653	65	30	55	55	59
SGC3-D803	80	37	63	63	75
SGC3-D953	95	45	80	80	80

## Auxiliary contact and Time relay

Front auxiliary contact blocks		Type	Mounting Type	Auxiliary Contacts		
						
		SGA1-DN10	Top	1	0	
		SGA1-DN01	Top	0	1	
		SGA1-DN02	Top	0	2	
		SGA1-DN11	Top	1	1	
		SGA1-DN20	Top	2	0	
		SGA1-DN22	Top	2	2	
		SGA1-DN40	Top	4	0	
		SGA1-DN04	Top	0	4	
		SGA1-DN13	Top	1	3	
SGA1-DN31	Top	3	1			
Side auxiliary contact blocks		Type	Mounting Type	Auxiliary Contacts		
						
		SGA8-DN11	Side	1	1	
Time delay auxiliary contact		Type	Delay range	Auxiliary Contacts		
						
		Making time-delay	SGA2-DT0	0.1-3s	1	1
			SGA2-DT2	0.1-30s		
			SGA2-DT4	10-180s		
		Breaking time-delay	SGA3-DR0	0.1-3s		
			SGA3-DR2	0.1-30s		
SGA3-DR4	10-180s					
Mechanical interlock		Type	Matched AC Contactor			
		SGML-0932	SGC1-D09 to SGC1-D32			
		SGML-4095	SGC1-D40 to SGC1-D95			
		SG9FF970	SGC1-F115 to SGC1-F150			
		SG9FG970	SGC1-F185 to SGC1-F225			
		SG9FJ970	SGC1-F265 to SGC1-F400			
		SG9FL970	SGC1-F630			
Spare coils		Type	Voltage (VAC)	Rated frequency(Hz)	Matched AC Contactor	
		SGX1-D2	24(B7)	50/60Hz	SGC1-D09~95	
		SGX1-D4	36(C7)			
		SGX1-D6	48(E7)			
			110(F7)			
			127(G7)			
			220(M7)			
			230(P7)			
			240(U7)			
			380(Q7)			
			415(N7)			
	440(R7)					
	480(T7)					