




SGC1-D Series AC Contactor

Standard	IEC60947-4-1
Electric ratings	9-95A
Rated operating voltage Ue(V)	220/380/400/415
Rated insulation voltage Ui(V)	690
Operation range	Pick-up voltage (85%~110%)Uc
	Drop-out voltage (20%~75%)Uc
Rated impulse withstand voltage Uimp(kV)	6
Rated frequency(Hz)	50/60
Utilization category	AC-3,AC-4
Degree of protection	IP20
Ambient air temperature	-5 to+40,max.95%humidity
Storage temperature	-40~+75
Maximum operating altitude(meters)	≤2000
Flame resistance	V1
Certification	  



SGC1-D12



SGC1-D25



SGC1-D40



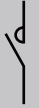
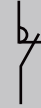
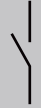

SGC1-D95

SGC1-D Series			AC Contactor									
Type			SGC1-D									
			09	12	18	25	32	40	50	65	80	95
Number of poles			3,4	3,4	3	3,4	3	3,4	3,4	3,4	3,4	3,4
Rated operational current(A)	380V	In AC-3	9	12	18	25	32	40	50	65	80	95
		In AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	440V	In AC-1	20	25	32	40	50	60	80	80	110	125
		In AC-3	6.6	8.9	12	18	21	34	39	42	49	55
660V	In AC-3	6.6	8.9	12	18	21	34	39	42	49	55	
	In AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3	
Rated conventional thermal current I _{th} (A)			20	25	32	40	50	60	80	80	125	125
Rated making capacity(A)		400V	10 x I _e AC-3 or 12 x I _e AC-4									
Rated breaking capacity(A)		400V	8 x I _e AC-3 or 12 x I _e AC-4									
Rated operational power in category AC-3(kw)	220/230/240V		2.2	3	4	5.5	7.5	11	15	18.5	22	25
	380/400V		4	5.5	7.5	11	15	18.5	22	30	37	45
	415V		4	5.5	9	11	15	22	25	37	45	45
	400V		4	5.5	9	11	15	22	25	37	45	45
	660/690V		5.5	7.5	10	15	18.5	30	33	37	45	45
Average impedance per pole(mΩ)			2.5	2.5	2.5	2	2	1.5	1.5	1.5	0.8	0.8
Add-on auxiliary contact blocks		Front			SGA1-DN							
		Side			SGA8-DN							
		Front time delay			SGA2-DT/SGA3-DR							
		Front dust and damp protected			YES							
Reversing contactor type			SGC2-D									
Associated thermal overload relays			SGR2-D13			SGR2-D23	SGR2-D33					
Operation cycles (times/hour)	Electrical AC-3		1200	1200	1200	1200	600	600	600	600	600	600
	Electrical AC-4		300	300	300	300	300	300	300	300	300	300
	Mechanical		3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
Elechemical life (X 10 ³ times)	AC-3		1000	1000	1000	1000	800	800	600	600	600	600
	AC-4		200	200	200	200	200	150	150	150	100	100
Mechanical life(X 10 ³ times)			10000	10000	10000	10000	8000	8000	8000	8000	6000	6000
Matching fuse model			RT16-20	RT16-20	RT16-32	RT16-40	RT16-50	RT16-63	RT16-80	RT16-80	RT16-100	RT16-125
Tightening torque(N.m) Connection			1.2	1.2	1.7	2.0	2.5	5	5	5	9	9

SGC1-D Series

AC Contactor

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)	Auxiliary contacts	Model number
								
9	3	-	1	-	380/400	50/60	1NO	SGC1-D0910
	3	-	-	1			1NC	SGC1-D0901
	4	-	1	1			1NO+1NC	SGC1-D09004
	2	2	1	1			1NO+1NC	SGC1-D09008
12	3	-	1	-	380/400	50/60	1NO	SGC1-D1210
	3	-	-	1			1NC	SGC1-D1201
	4	-	1	1			1NO+1NC	SGC1-D12004
	2	2	1	1			1NO+1NC	SGC1-D12008
18	3	-	1	-	380/400	50/60	1NO	SGC1-D1810
	3	-	-	1			1NC	SGC1-D1801
25	3	-	1	-	380/400	50/60	1NO	SGC1-D2510
	3	-	-	1			1NC	SGC1-D2501
	4	-	1	1			1NO+1NC	SGC1-D25004
	2	2	1	1			1NO+1NC	SGC1-D25008
32	3	-	1	-	380/400	50/60	1NO	SGC1-D3210
	3	-	-	1			1NC	SGC1-D3201
40	3	-	1	1	380/400	50/60	1NO+1NC	SGC1-D4011
	4	-	1	1			1NO+1NC	SGC1-D40004
	2	2	1	1			1NO+1NC	SGC1-D40008
50	3	-	1	1	380/400	50/60	1NO+1NC	SGC1-D5011
	4	-	1	1			1NO+1NC	SGC1-D50004
	2	2	1	1			1NO+1NC	SGC1-D50008
65	3	-	1	1	380/400	50/60	1NO+1NC	SGC1-D6511
	4	-	1	1			1NO+1NC	SGC1-D65004
	2	2	1	1			1NO+1NC	SGC1-D65008
80	3	-	1	1	380/400	50/60	1NO+1NC	SGC1-D8011
	4	-	1	1			1NO+1NC	SGC1-D80004
	2	2	1	1			1NO+1NC	SGC1-D80008
85	3	-	1	1	380/400	50/60	1NO+1NC	SGC1-D9511
	4	-	1	1			1NO+1NC	SGC1-D95004
	2	2	1	1			1NO+1NC	SGC1-D95008

Refer to other coil voltage listed as followings

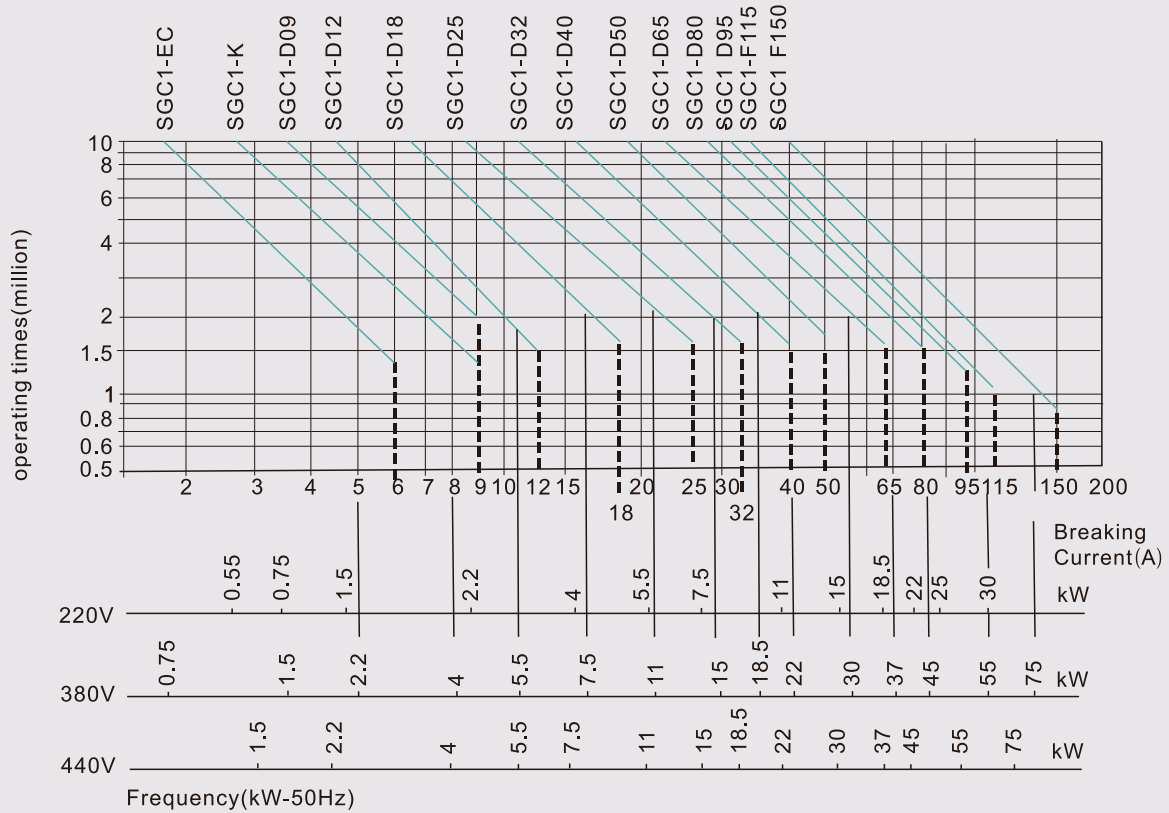
Coil voltage(V)	24	36	48	110	127	220	230	240	380/400	415	440	480	500	600	660
50Hz	B5	C5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	T5	S5	-	Y5
60Hz	B6	-	E6	F6	G6	M6	P6	U6	Q6	N6	R6	T6	-	S6	-
50/60Hz	B7	C7	E7	F7	G7	M7	P7	U7	Q7	N7	R7	T7	-	-	-

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

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AC Contactor

Electrical life curve for AC contactor SGC1-D



Overall Dimensions



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-∅4.5
	SGC1-D18	47	76	87	118	138	34/35	50/60	2-∅4.5
	SGC1-D25	57	86	95	126	146	40	48	2-∅4.5
	SGC1-D32	57	86	100	131	151	40	48	2-∅4.5
	SGC1-D40~65	77	129	116	145	165	40	100/110	3-∅6.5
4P	SGC1-D09008~12008	47	76	82	113	133	34/35	50/60	2-∅4.5
	SGC1-D25008	57	86	95	126	146	40	48	2-∅4.5
	SGC1-D40008~65008	86	129	116/129	145	165	40	100/110	3-∅6.5
	SGC1-D80008~95008	97	129	127/140	156	176	40	100/110	3-∅6.5