

SGC1-K Series

Mini Contactor

Standard	IEC60947-4-1
Electric ratings	6-16A
Rated operating voltage Ue(V)	Up to 690
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(kA)	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
Pollution degree	Degree 3
Flame resistance	V1
Certification	CE

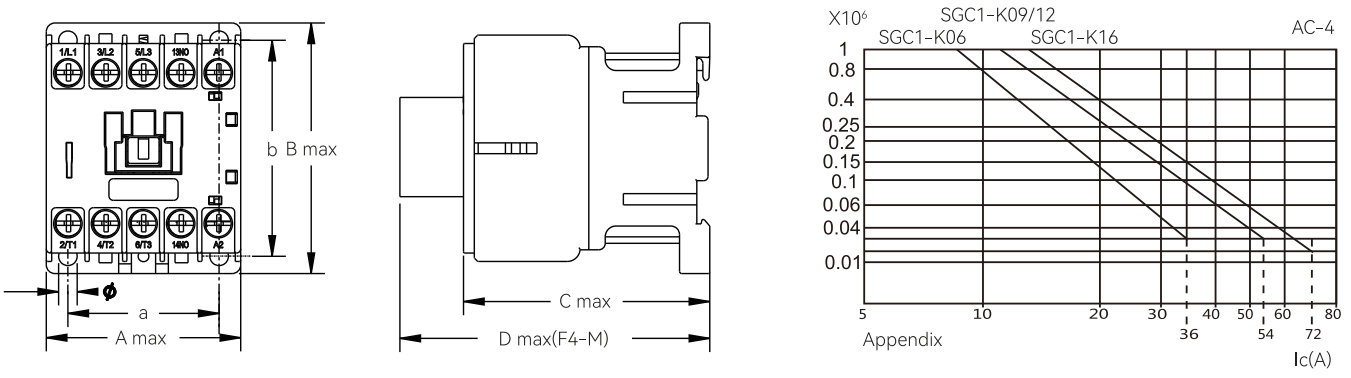


SGC1-K

SGC1-K Series			Mini Contactor			
Model			SGC1-K06	SGC1-K09	SGC1-K12	SGC1-K16
Conventional thermal current I _{th} (A)			20			
Rated insulation voltage U _i (V)			690			
Rated impulse withstand voltage U _{imp} (kV)			6			
Rated duty system			8 hour duty system,uninterrupted duty system, intermittent duty system, short term duty system			
Rated limited short-circuit current I _q (kA)			50			
Power of controllable 3-phase motor (AC-3)kw	220V/230V		1.5	2.2	3	4
	380V/400V		2.2	4	5.5	7.5
	660V/690V		3	4	4	4
Arcing distance (mm)			3			
Electrical life 400V	AC-3		1.2 million			
	AC-4		See attachment "Electrical life curve"			
Mechanical life			12 million			
Operation frequency(times/h)	AC-3		600			
	AC-4		150			
Enclosure protection class			IP20(Except for the terminal blocks)			
Model of matching fuse			RT16-00 20A			
Rated current of fuse of different model(A)			20			
Coordination type			Type "2" coordination			
Model of matching thermal overload relay			JR28-11.5			
Parameters of auxiliary circuit	AC-15		U _e /I _e : AC380V/400V/0.95A I _{th} :10A			
	DC-13		U _e /I _e : DC220V/0.15A			
Coil power	Pick-up(VA)		20~40			
	Hold(VA)		9.0			
Rated operating current I _e (A)	220V/230V	AC-3	6	9	12	16
		AC-4				
	380V/400V	AC-3	6	9	12	16
		AC-4				
	660V/690V	AC-3	3.8	4.9	4.9	4.9
		AC-4				

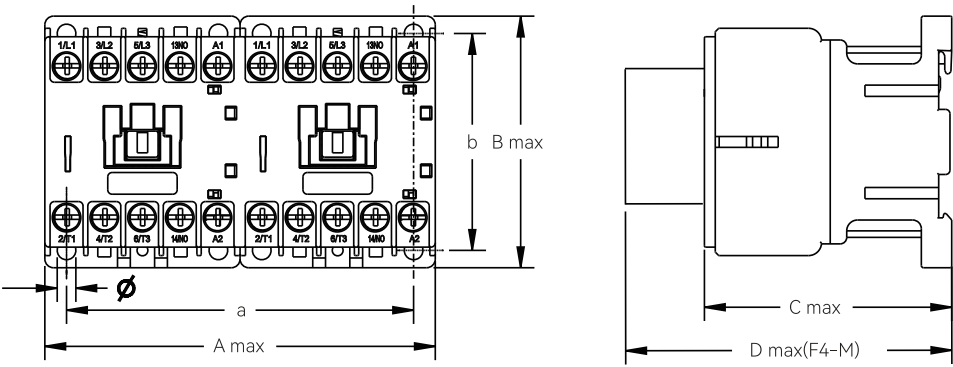
SGC1-K Series Mini Contactor

Overall Dimensions



Model	Outline dimensions				Installation dimensions		
	A max	B max	C max	D max	a	b	Φ
SGC1-K06~16	45.5	59	58	94	35±0.35	50±0.48	4.2
SGC1-K06Z~16Z	45.5	59	70	106	35±0.35	50±0.48	4.2

Unit: mm



Model	Outline dimensions				Installation dimensions		
	A max	B max	C max	D max	a	b	Φ
SGC1-K06N~16N	91	59	58	94	80±0.35	50±0.48	4.2
SGC1-K06NZ~16NZ	91	59	70	106	80±0.35	50±0.48	4.2



Main circuit	Control circuit	M3	Phillips	mm ²	mm ²	mm ²	mm ²	mm ²	mm ²
		0.8N·m		1~2.5	1~2.5	1~2.5	1~1.5	--	--

Unit: mm


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F4-M Auxiliary contact group

Type	Picture	Number of contacts	
		Number of normally open (NO) contacts	Number of normally closed (NC) contacts
F4-M20		2	0
F4-M11		1	1
F4-M02		0	2
F4-M40		4	0
F4-M31		3	1
F4-M22		2	2
F4-M13		1	3
F4-M04		0	4

Coil surge suppression module

Type	Picture	Coil voltage range
FS-M		AC/DC:24V-48V AC/DC:110V-240V AC/DC:380V-440V

Coil voltage specification table

AC(V) 50Hz	24	36	48	110	127	220	380	415
AC(V) 60Hz	24	36	48	110	127	220	380	415
AC(V) 50/60Hz	24	36	48	110	127	220	380	415
DC (V)	12	24	36	48	110	127	220	-

Instructions for using the correction factor for high altitude areas

Altitude (m)	2000	3000	4000
Rated impulse withstand voltage coefficient	1	0.88	0.78
Rated operating current coefficient	1	0.92	0.90

Instructions for use under abnormal Ambient air temperatures

Ambient air temperature (°C)	55	60	65	70
Correction factor	1	0.93	0.875	0.75