

SC Series AC Contactor

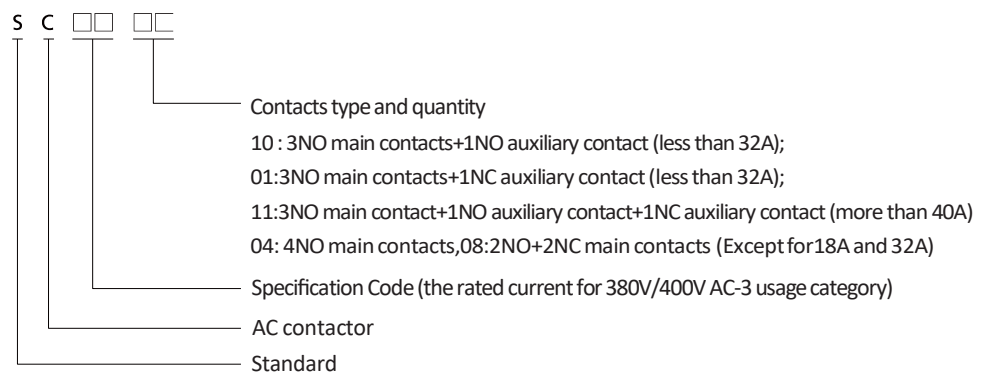
Application

SC series AC contactor (hereinafter contactor) is suitable for using in the circuits up to the rated voltage 690V AC 50Hz or 60Hz, rated current up to 95A, for making, breaking, frequently starting & controlling the AC motor. Combined with the thermal relay, it becomes the electromagnetic starter for protecting the overload circuits.

This series contactor compiles with GB14048.4, IEC60947-4-1.



Model and Implication



Working and Installation Condition

- Ambient air temperature: -5°C --+40°C and average not more than +35°C within 24hours; Altitude: not more than: 2000m;
- Air condition: when the highest temperature is +40°C, the air relative humidity is not up to 50%.but the higher humidity is allowed at lower temperature. Like, 90% humidity at 20°C. The condensate dew should be considered when at lower temperature;
- Pollution degree: class 3;
- installation category: III;
- Protection degree: IP20;
- Installation condition: the gradient angle between installation side and vertical side and vertical side should not be more than $\pm 5^\circ$;
- Impact and vibration: the contactor must be installed and operate under the circumstances of no obvious shaking, impact and vibration.



Structure Characteristic

- It can be installed with auxiliary contacts block, time relay and current-limited contacts block, and thermal relay, then to be other derivative products;
- This series contactor has small volume, light weight, less power loss, long life and safe and reliability etc;
- The contactor can be equipped with 1NO auxiliary contact or 1NC auxiliary contact (less than 32A), and 1NO auxiliary contact+1NC auxiliary contact (more than 40A).In addition, it can be equipped with F4 auxiliary contactor block (2 blocks or 4 blocks);
- In addition to use screw to install, contactor can be tightened with the standard installing rail of 35mm (SC09-95) and the standard installing rail of 75mm (SC40-95).



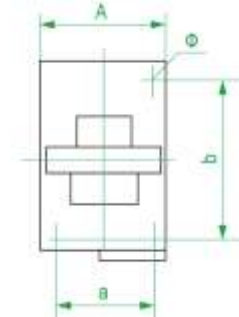
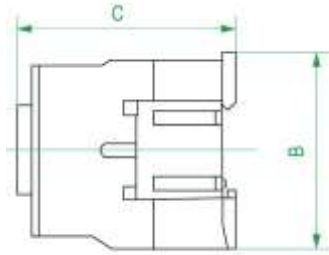
Type				SC09	SC12	SC18	SC25
Rated heating current (A)				20	20	32	40
Rated insulation voltage (V)				690			
Rated impact withstand voltage (KV)				6			
Rated making capacity				10Ie			
Rated breaking capacity				8Ie			
Poles				3			
Auxiliary contact				NO/NC			
Short-time withstand current (A)	10s			72	96	144	200
Rated working current (A)	380V	AC-3		9	12	18	25
		AC-4		3.5	5	7.7	8.5
	660V	AC-3		6.6	8.9	12	18
		AC-4		1.5	2	3.8	4.4
AC-3 capacity of phase 3 squirrel-cage motor (AC-3) KW	220V			2.2	3	4	5.5
	380V			4	5.5	7.5	11
	660V			5.5	7.5	10	15
Operation frequency (times/h)	Electrical life	AC-3		1200	1200	1200	600
		AC-4		300	300	300	300
	Mechanical life			3600	3600	3600	3600
Electrical life (10000/times)	AC-3			100	100	100	100
		AC-4		20	20	20	20
Mechanical life (10000/times)				1000	1000	1000	1000
Equipped fuse type				RT16-20	RT16-20	RT16-32	RT16-40
Rated control supply voltage Us (V)	50/60Hz			12~480			
Operation range	Pull-in			(85%~110%)Us +40°C			
	Releasing			(20%~75%)Us -5°C			
Ac coil average power (VA)	Start			70			110
	Keeping			8			11
Power efficiency class				class 3			
Thermal loss (W)				2~3			3~4
Actuation time (ms)	Close			12~25			
	Break			5~20			
Main circuit wiring	flexible wire without cold pressing terminal (mm²)	1 stick		1~4	1~4	1.5~6	1.5~10
		2 sticks		1~4	1~4	1.5~6	1.5~6
	flexible wire with cold pressing terminal (mm²)	1 stick		1~4	1~4	1~6	1~6
		2 sticks		1~2.5	1~2.5	1~4	1~4
	Hard wire (mm²)	1 stick		1~4	1~4	1.5~6	1.5~6
		2 sticks		1~4	1~4	1.5~6	1.5~6
	Fastening screw size			M3.5			M4
	Tightening fastening torque (N.m)			0.8			1.2
Control loop wiring	flexible wire without cold pressing terminal (mm²)	1 stick		1~4	1~4	1~4	1~4
		2 sticks		1~4	1~4	1~4	1~4
	flexible wire with cold pressing terminal (mm²)	1 stick		1~4	1~4	1~4	1~4
		2 sticks		1~2.5	1~2.5	1~2.5	1~2.5
	Hard wire (mm²)	1 stick		1~4	1~4	1~4	1~4
		2 sticks		1~4	1~4	1~4	1~4
	Fastening screw size			M3.5			
	Tightening fastening torque (N.m)			0.8			



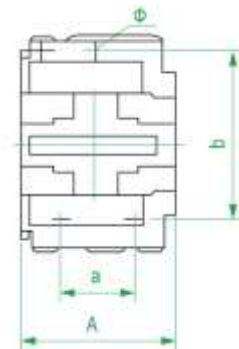
SC32	SC40	SC50	SC65	SC80	SC95
50	60	80	80	110	110
690			690		
6			6		
10Ie			10Ie		
8Ie			8Ie		
3			3		
NO/NC			NO+NC		
256	320	400	520	640	760
32	40	50	65	80	95
12	18.5	24	28	37	44
21	34	39	42	49	49
7.5	9	12	14	17.3	21.3
7.5	11	15	18.5	22	25
15	18.5	22	30	37	45
18.5	30	33	37	45	45
600	600	600	600	600	600
300	300	300	300	300	300
3600	3600	3600	3600	3600	3600
80	80	60	60	60	60
20	15	15	15	10	10
800	800	800	800	600	600
RT16-50	RT16-63	RT16-80	RT16-80	RT16-100	RT16-125
12~480			12~480		
(85%~110%)Us +40°C			(85%~110%)Us +40°C		
(20%~75%)Us -5°C			(20%~75%)Us -5°C		
110			200		
11			20		
class 3			class 3		
3~4			6~10		
12~25		20~25		20~35	
5~20		8~15		8~20	
2.5~10	2.5~25	2.5~25	2.5~25	4~50	4~50
2.5~10	2.5~16	2.5~16	2.5~16	4~25	4~25
1~10	2.5~25	2.5~25	2.5~25	4~50	4~50
1.5~6	2.5~10	2.5~10	2.5~10	4~16	4~16
1.5~10	2.5~25	2.5~25	2.5~25	4~50	4~50
2.5~10	2.5~16	2.5~16	2.5~16	4~25	4~25
M4		M8		M10	
1.2		3.5		4.0	
1~4	1~4	1~4	1~4	1~4	1~4
1~4	1~4	1~4	1~4	1~4	1~4
1~4	1~4	1~4	1~4	1~4	1~4
1~2.5	1~2.5	1~2.5	1~2.5	1~2.5	1~2.5
1~4	1~4	1~4	1~4	1~4	1~4
1~4	1~4	1~4	1~4	1~4	1~4
M3.5			M3.5		
0.8			0.8		

Dimensions(mm)

SC09-32 Appearance and installation dimension



SC40-95 Appearance and installation dimension



Type	A max	B max	C max	a	b	Φ
SC09-12	47	76	82	34/35	50/60	4.5
SC18	47	76	87	34/35	50/60	4.5
SC25	57	86	95	40	48	4.5
SC32	57	86	100	40	48	4.5
SC40-65	77	129	116	40	100/110	6.5
SC80-95	87	129	127	40	100/110	6.5



CjX2-F115

SC-F Series AC Contactor

Application

SC-F series AC contactor is suitable for long-distance breaking and frequently starting or controlling the motor in circuits with AC 50/60Hz, rated voltage 380V, and rated current 800A. It is also used to control the power distribution circuits of current from 115A to 800A. It conforms to IEC60947-4-1.

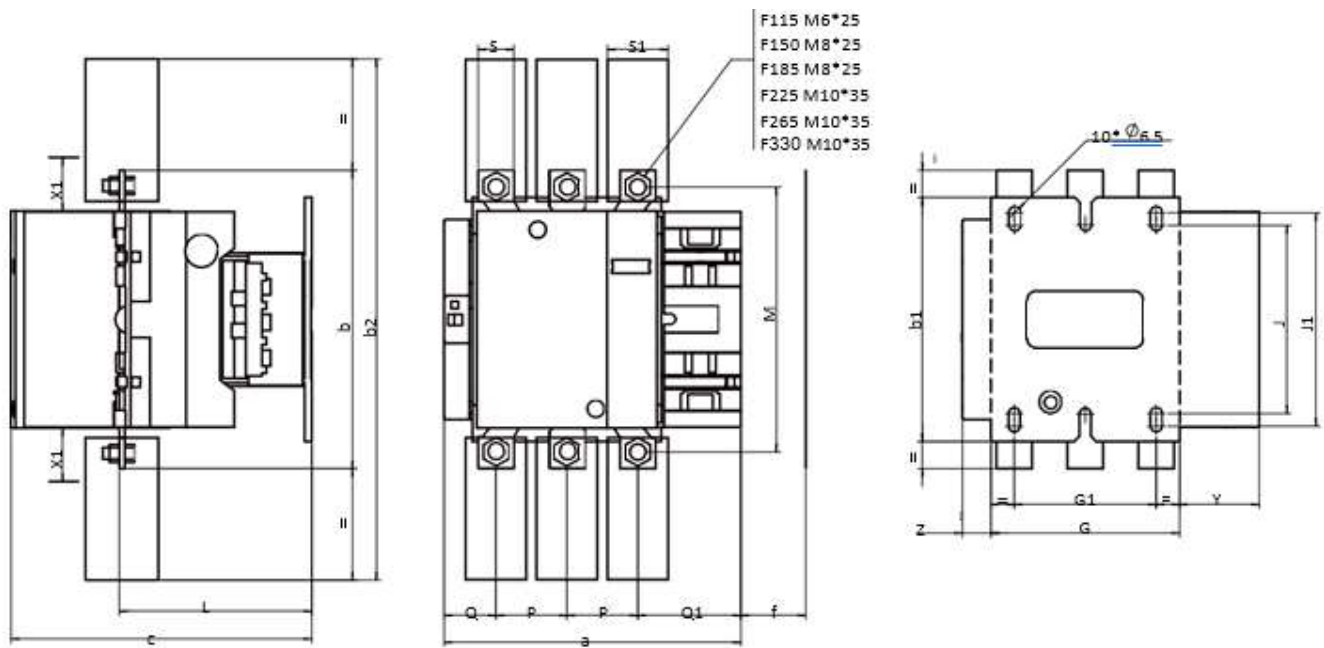


CjX2-F2254

Main Technical Parameters

Type	Rated operational current in AC-3(A)	Max power ratings of 3-phase motors in category AC-3(kW)							Operating frequency (time/h) AC-3	Electrical life AC-3 × 10 ⁴	Mechanical life AC-3 × 10 ⁴
		220V 230V	380V 400V	415V	440V	500V	660V 690V	1000V			
SC-F115	115	30	55	59	59	75	80	65	1200	120	1000
SC-F150	150	40	75	80	80	90	100	65	1200	120	1000
SC-F185	185	55	90	100	100	110	110	110	600	100	600
SC-F225	225	63	110	110	110	130	129	100	600	100	600
SC-F265	265	75	132	140	140	160	160	147	600	80	600
SC-F330	330	100	160	180	200	200	220	160	600	80	600

Outline and Mounting Dimension



SC-	Polos	a	b	b1	b2	c	f	G	G1	J	J1	L	M	P	Q	Q1	S	S1	Y	Z
F115	3P	163.5	162	137	265	171	131	106	80	106	120	107	147	37	29.5	60	20	26	44	13.5
F150	3P	163.5	170	137	301	171	131	106	80	106	120	107	150	40	26	57.5	20	34	44	13.5
F185	3P	168.5	174	137	305	181	130	111	80	1006	120	113.5	154	40	29	59.5	20	34	44	13.5
F225	3P	168.5	197	137	364	181	130	111	80	106	120	112.5	172	48	21	51.5	25	44.5	44	13.5
F265	3P	201.5	203	145	375	213	147	142	96	106	120	141	178	48	39	66.5	25	44.5	38	21.5
F330	3P	213	206	145	375	219	147	154.5	96	106	120	145	181	48	43	74	25	44.5	38	20.5

f = minimum distance required for coil removal