

Contactors

3

3SC8	AC Contactor (9-95A)	1~4
3SC8	AC Contactor (115-620A)	5~6
3SC8-F	AC Contactor (115-780A)	7
3SC19	Capacitor Switching Contactor	8~9
3SC7-F	AC Contactor	10
3SC7-B	AC Contactor	11
3SC8-D/N	Mechanical Interlocking Contactor	12
3SC7-F/N	Mechanical Interlocking Contactor	12
3SC8-F/N	Range reversing Contactor	13
3SC8-A1	Accessories	14
3SC8-A2	Accessories	14
3SC8-P	DC Operated AC Contactor	15
3SC8-E/3SC8-K	AC Contactor	16
3SM19	Motor Protection Circuit Breaker	17
3SM18	Motor Protection Circuit Breaker	18
3SCJ9K	Definate Purpose Contactor	19



3SC8 AC Contactor

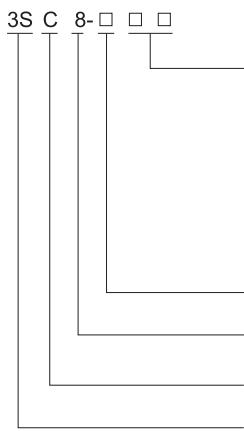
■ Application

3SC8 AC Contactor is suitable for using in the circuits of AC 50Hz or 60Hz, rated insulating voltage 660V, rated operating voltage up to 690V, rated operating voltage 380/400V in AC-3 type, rated operating current up to 95A, for making, breaking, frequently starting & controlling the AC motor. Combined with the auxiliary contact block, timer delay & mechanical interlocking device etc, it becomes the delay contactor, mechanical interlocking contactor, star-delta starter. With the thermal relay, it is combined into the electromagnetic starter. The contactor is produced according to IEC60947-4. The product is SEMKO certified by INTERTEK.

■ Applicable standard

International Standard: IEC 60947-4-1

■ Type and meanings



Quantity of contacts indicated by numbers:

- 10 = 3NO+1NO \leq 32A
- 01 = 3NO+1NC \geq 32A
- 11 = 3NO+1NO+1NC \geq 40A
- 04 = 4NO (exclude 18A&32A)
- 08 = 2NO+2NC (exclude 18A&32A)

Basic current rate: indicated by amperage under AC-3 at 380V

Design serial number

AC contactor code

“**SASSIN**” enterprise code

Notes: Contactor's base and contact support have black and white colors for selection

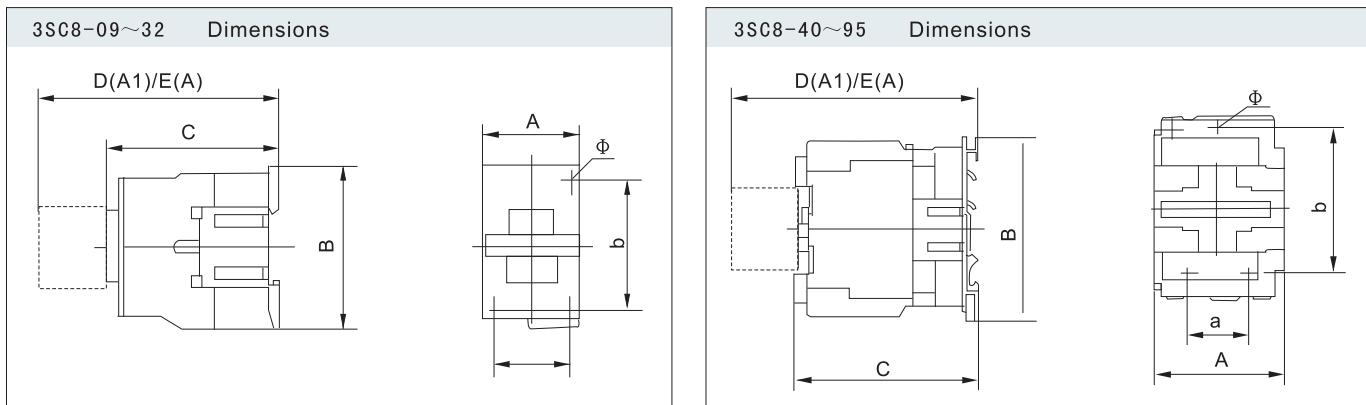
■ Standard Control Circuit Voltages

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

■ Main PERFORMANCE Parameter

Parameters			Type																		
			3SC8-9	3SC8-12	3SC8-18	3SC8-25	3SC8-32	3SC8-40	3SC8-50	3SC8-65	3SC8-80	3SC8-95									
Rated Working Current(Ie)	380V	AC-3	9	12	18	25	32	40	50	65	80	95									
		AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44									
	660V	AC-3	6.6	8.9	12	18	21	34	39	42	49	55									
		AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3									
Rated insulating voltage (Ui) V			660																		
Conventional thermal current (Ith)A			20		32		40		50		60		80		110						
Controllable 3-phase squirrel-cage motor power (AC-3) KW		220V	2.2	3	4	5.5	7.5	11	15	18.5	22	25									
		380V	4	5.5	7.5	11	15	18.5	22	30	37	45									
		660V	5.5	7.5	9	15	18.5	30	33	37	45	45									
AC-3	Electrical life(10^4) times		100				80				60										
	Operation frequency(times/h)		1200				600														
AC-4	Electrical life(10^4) times		20				15				10										
	Operation frequency(times/h)		300																		
Mechanical life (10^4) times			1000				800				600										
Auxiliary contact	Conventional thermal current (Ith) A		10																		
	Rated working voltage (Ue)V		AC 380				DC 220														
	Rated control capacity		360VA(AC-15) or 33W(DC-13)																		
	Electrical life(10^4) times		100																		
	Mechanical life (10^4) times		1000																		
	Minimum load of making		6V 10mA																		
Coil	Rated control voltage (Us) V		24,36,48,110,127,220,240,380,400																		
	Pull-in voltage V		85%~110%Us																		
	Release voltage V		20%~75%Us																		
	Pull-in VA		70			110			200												
	Holding VA		8			11			20												
	Power W		1.8~2.8				3~4				6~10										
Matched fuse type and current			RT16-20		RT16-32		RT16-40		RT16-50		RT16-63		RT16-80		RT16-100		RT15-110				
Wire connected with terminal mm ²	Number of wire	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
		2.5	2.5	2.5	2.5	4	4	4	4	6	6	10	10	16	16	25	25	50	25	50	25
		4	4	4	4	6	6	6	6	10	10	16	-	25	-	25	-	50	-	50	-

■ Dimensions



Type	A max	B max	C max	D max	E max	a	b	φ
3SC8-09-12	47	76	82	113	133	34/35	50/60	4.5
3SC8-18	47	76	87	118	138	34/35	50/60	4.5
3SC8-25	57	86	95	126	146	40	48	4.5
3SC8-32	57	86	100	131	151	40	48	4.5
3SC8-40~65	77	129	116	145	165	40	100/110	6.5
3SC8-80~95	87	129	127	175	195	40	100/110	6.5

■ Normal application and installation conditions

- A) Ambient temperature: the upper limit shall not exceed +40°C; the average value within 24 hours shall not exceed +30°C; the lower limit shall be not less than -5°C;
- B) Altitude: Installation altitude shall not exceed 2000m.
- C) Atmosphere conditions: Relative humidity shall not exceed 50% when the ambient temperature is +40°C. Higher relative humidity is permissible at lower temperature, for example, it can be 90% at 20°C. Special measures should be taken to address the dew occurred occasionally due to temperature changes.
- D) Anti-pollution degree:
- E) Installation category:
- F) Installation conditions: Slant of contactor mounting surface shall not exceed $\pm 5^\circ$. Contactor can also be installed with TH type DIN rails of 35mm (32A and below) and 35mm or 75mm (40A and above) except screws.
- G) Shock: Contactors can be installed and used in situation with frequency 2~13.2 Hz, amplitude within $\pm 1\text{mm}$ or places with frequency 13.2~100 Hz and acceleration within $\pm 7\text{m/s}^2$
- H) Environment protection: environmental protection factor has been taken into consideration in design process by adopting retrievable and naturally degradable materials into components.
E.g. plastic material adopts Dutch DMC environmental protection plastics.
- I) Duty: contactor applies to 8 hour working duty, uninterrupted duty and intermittent cyclic/periodic duty (load factor 40%).
- J) Protection level: IP20

■ Derivative products of AC contactor, please refer to picture below

Contactor	Auxiliary Blocks	Relative products
	+	
		Delay timer → 
		Time-delay contactor
	+	
		Mechanical interlock → 
		Reversing contactor
	+	
		Thermal relay → 
		Magnetic starter
	+	
		Current-limited auxiliary block → 
		Changover capacitor contactor
	+	
	+	
		Delay timer + Auxiliary block → 
		Star-delta starter



■ Specifications

Type of product			3SC8-115	3SC8-150	3SC8-170	3SC8-205	3SC8-245
Rated current AC3 $U_e \leq 440V$	A		115	150	170	205	245
Rated heating current AC10 $U_e \leq 40^\circ$	A		200	250	250	275	315
Rated power AC3 Three-phase motor $0 \leq 40^\circ$	220/240V	KW	30	40	55	63	75
	380/400V	KW	55	75	90	110	132
	400V	KW	59	80	100	110	132
	500V	KW	75	90	110	120	160
	600/690V	KW	80	100	110	129	160
	1000V	KW	75	90	100	100	147
Rated power AC4 Three-phase motor $0 < 40^\circ$	200/230V	KW	9	11	22	25	30
	380/400V	KW	18.5	22	40	45	55
	440V	KW	18.5	22	45	51	63
	500V	KW	30	37	51	59	75
	Weight	Kg	2.25	2.25	2.25	4.6	4.7
Volume L x W x H	MM ³	132 x 120 x 158	132 x 120 x 158	132 x 120 x 158	168.5 x 174 x 181	168.5 x 197 x 181	
Section of power connecting wire	MM ²	120	120	120	150 2□25 x 3	185 2□25 x 4	
Installment Bolt H x L- ϕ Guiding rail: Number of guiding rail x Width of rail x Rail center distance	MM	130 x (95-110)-6.5 2 x 35 x 100	130 x (95-110)-6.5 2 x 35 x 100	130 x (95-110)-6.5 2 x 35 x 100	(106-120) x 80-6.5	(106-120) x 96-6.5	
Reference model		LC1-D115	LC1-D150	LC1-D170	LC1-D205	LC1-D245	
Control Circuit Voltage	AC 50Hz	V	24(B5)	42(D5) 48(E5)	110(F5)	220(M5) 240(U5)	380(Q5)
	AC 60Hz	V	24(B6)	42(D6) 48(E6)	110(F6)	220(M6) 240(U6)	380(Q6)
	AC 50/60Hz	V	24(B7)	42(D7) 48(E7)	110(F7)	220(M7) 240(U7)	380(Q7)
	DC	V	24(BD)	48(ED) 60(ND)	72(SD)	110(FD) 125(GD)	220(MD)



■ **Specifications**

Type of product			3SC8-300	3SC8-410	3SC8-475	3SC8-620
Rated current AC3 Ue≤440V	A		300	410	475	620
Rated heating current AC10 Ue≤40°	A		400	500	700	1000
Rated power AC3 Three-phase motor 0≤40°	220/240V	KW	100	110	147	200
	380/400V	KW	160	220	265	335
	400V	KW	200	250	280	400
	500V	KW	200	250	335	400
	600/690V	KW	220	280	355	450
	1000V	KW	160	185	335	450
Rated power AC4 Three-phase motor 0<40	200/230V	KW	37	40	45	55
	380/400V	KW	63	75	80	100
	440V	KW	75	80	100	110
	500V	KW	80	90	110	132
Weight		Kg	8.2	8.5	10.8	17.4
Volume L x W x H		MM ³	213 x 206 x 219	213 x 206 x 219	232 x 238 x 233	309 x 304 x 255
Section of power connecting wire		MM ²	240 2□25 x 5	2 x 150 2□30 x 5	2 x 200 2□40 x 5	2□40 x 8 / 2□60 x 5
Installment Bolt H x L- ϕ Guiding rail: Number of guiding rail x Width of rail x Rail center distance		MM	(106-120) x 96-6.5	180 x 80(66-102)-8.5	180 x 80(66-102)-8.5	180 x 180(100-195)-10.5
Reference model			LC1-D300	LC1-D410	LC1-D475	LC1-D620
Control Circuit Voltage	AC 50Hz	V	400(V5) 440(R5)	500(S5) 660(Y5)		
	AC 60Hz	V	440(R6)			
	AC 50/60Hz	V	400(V7) 440(R7)			
	DC	V	250(UD) 440(RD)			



3SC8-F AC Contactor

■ Application

3SC8-F series AC Contactor is applicable to the circuits up to the rated voltage 1000V AC 50Hz or 60Hz, rated current up to 780A, for long distance breaking circuit and frequently starting or controlling the motor. It also can be used for the control of distribution circuits of rated current from 200A to 1600A.

■ Specifications



Contactor Model	Appointed thermal current (A)	Rated operation current (A)			The max.power or controllable 3-phase squirrel-cage motor(kw)				Weight (kg)	Mechanical life		Electric life		Mechanical life	
		380V	660V	1000V	220V	380V	660V	1000V		Opertion frequency h ⁻¹	Time × 10 ⁴	Opertion frequency h ⁻¹	Time × 10 ⁴	Model	Rated current
3SC8-F115	200	115	65	40	KW	KW	KW	KW	3.6	1200	300	1200	120	RT16-2	250
					30	55	80	65							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					40	75	110	85							
3SC8-F150	220	150	80	50	KW	KW	KW	KW	3.7	1200	300	1200	120	RT16-2	355
					40	75	100	65							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					53	100	136	85							
3SC8-F185	275	185	95	65	KW	KW	KW	KW	4.6	600	300	1200	60	RT16-3	425
					55	90	110	100							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					75	125	150	135							
3SC8-F225	315	225	115	80	KW	KW	KW	KW	4.7	600	300	600	60	RT16-3	500
					68	110	120	100							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					90	150	175	136							
3SC8-F265	350	265	150	95	KW	KW	KW	KW	7.1	600	100	300	60	RT16-3	630
					75	132	160	147							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					100	180	220	200							
3SC8-F330	400	330	185	115	KW	KW	KW	KW	8.5	600	100	300	60	RT16-4	800
					100	165	220	160							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					135	221	300	220							
3SC8-F400	500	440	225	150	KW	KW	KW	KW	8.5	600	100	300	60	RT16-4	800
					115	200	280	185							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					155	270	380	250							
3SC8-F500	700	500	265	185	KW	KW	KW	KW	10.8	600	100	300	60	RT16-4	1000
					147	250	335	335							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					200	340	450	450							
3SC8-F630	1000	630	330	225	KW	KW	KW	KW	17.4	600	100	300	60	RT16	1250
					200	335	450	425							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					270	450	610	570							
3SC8-F780	1500	780	450	300	KW	KW	KW	KW	40	600	100	300	60	RT16	160
					220	400	475	450							
					HP.Ch	HP.Ch	HP.Ch	HP.Ch							
					300	540	635	605							

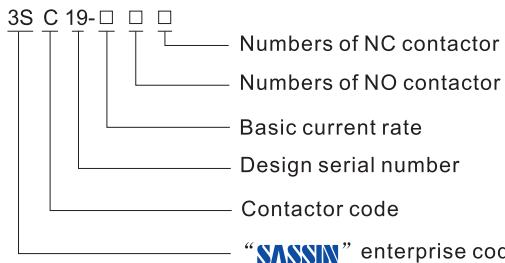


3SC19 Capacitor Switching Contactor

■ Application

3SC19 series capacitor switching contactor is suitable in AC 50/60Hz circuit line of the rated voltage up to 380V, is used to switch parallel connection capacitance from Low-voltage reactive power compensating equipments. It can efficiently reduce the impact to capacitor and restrain over-voltage when switching on/off with special flow-cut equipment.

■ Type and meanings



■ Normal application and installation conditions

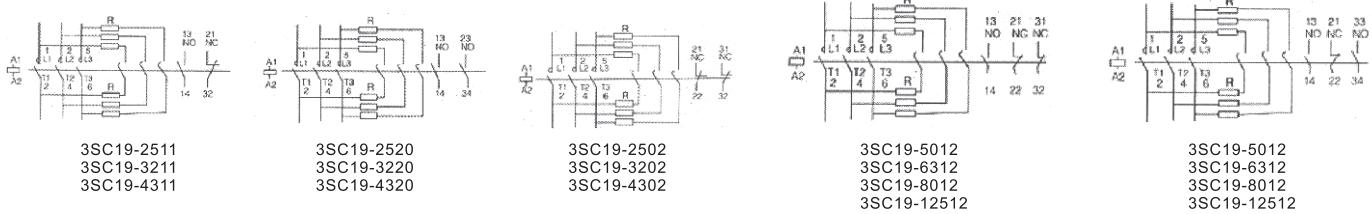
1. Ambient temperature: the upper limit shall not exceed +40°C; the lower limit shall be not less than -5°C; the average value within 24 hours shall not exceed +35°C.
2. Altitude: installation altitude shall not exceed 2000m.
3. Atmosphere conditions: relative humidity shall not exceed 50% when ambient temperature is +40°C. Higher relative humidity is permissible at lower temperature. the average temperature shall not exceed +25°C in the most humid month when the relative humidity shall not exceed 90%.Please consider the dew with the change of temperature.
4. Anti-pollution degree:III
5. Installation category:III
6. Installation conditions: slant of contactor mounting surface shall not exceed $\pm 5^\circ$.
7. Shock: contactors can be installed and used in the place where has no notable shock、shake and impact.

■ principles

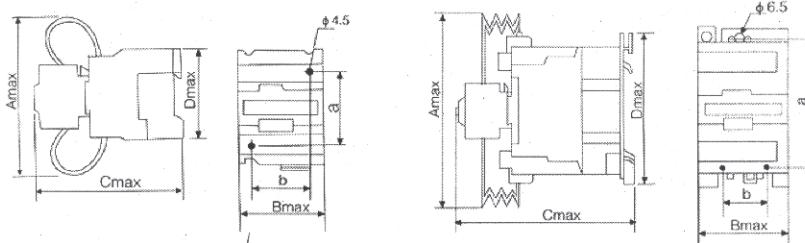
3SC19 capacitor switching contactor consists of one 3SC8 AC contactor one transformer contactor and six wires with resistance .the transformer contactor is installed on the top of 3SC8 contactor. the two pieces form the contact system and between them are six wires.

When circuit switch on ,the upper contactor is joined to the point on lower contactor by 3SC8 to restrain the overflow. after action, it will back the reposition instantly. when switch off ,the situation resemble above. the flash connection of these resistance to the circuit do not waste power and burn themselves.

■ Terminal and electric diagram



■ The figure and installation dimension as the following picture and drawing



The type	A max	B max	C max	D max	a	b	
3SC19-25	130	47	121	76	50/60	35	Except using the screw for installation, also can use 35MM din rail for installation
3SC19-32	130	58	130	86	50/60	40	
3SC19-40	140	58	135	86	50/60	40	
3SC19-50	140	79	150	128	100/110	40	
3SC19-60	180	79	150	128	100/110	40	
3SC19-80	180	79	150	128	100/110	40	
3SC19-125	200	87	157	128	100/100	40	

■ Technical data

Type and data	3SC19-25	3SC19-32	3SC19-43	3SC19-50	3SC19-63	3SC19-80	3SC19-125					
Rated working voltage (V)	660(690)											
Rated working current (A)	18	24	29	36	48	58	87					
Conventional thermal current Ith	25	32	40	50	60	80	125					
Controllable power	220V-240V	6.7	8.5	10	15	20	40					
Ac-6b Kvar	400V-440V	12.5	16.7	20	25	33.3	60					
Inrush control capacity	≤20In											
Auxiliary Contact Control capacity	Rated thermal current (A)	10A										
	AC-15 making	3600VA										
	DC-13 making	33W										
	AC-15 breaking	360VA										
	DC-13 breaking	33W										
	AC-15/380V Rated operating current	0.95A										
	DC-15/220V Rated operating current	0.15A										
Coil operating voltage ratings	24V	48V	110V	220V	380V							
Coil power (VA)	Close	70	110	200								
	Maintain	8	11	20								
Power consumption (W)	1.8-2.8		3-4		6-10							
Operation frequency times/h	120											
Electrical endurance	10											
Mechanical endurance	100											
Connect conductor cross section (mm ²)	4	6	6	16	16	16	25					
Comply with Standard	IEC60947-4											

■ Ordering information

1. Please clarify specification when place an order, such as product name, item no., rated working voltage of the coil, frequency etc..
2. Example: capacitor switching contactor CJ19-3211,220V,50HZ, 300PCS.



3SC7-F AC Contactor

■ Application

3SC7-F AC Contactor applies to supply of AC 50/60Hz, rated voltage up to 660V. In AC3 use, under voltage of 380V, the rated current can be up to 630A. 3SC7-F and 3SR7 overload relay can be combined to form a motor starter to protect the motor against overload and phase failure. The product is tested according to IEC60947-4.

The contactor features double breaking contacts. Arc distinguish chambers are used to quench the arc in contactors of 32A and range above. The contactors below 32A can be mounted on DIN rail or by screw, and up ones can only be mounted by screw.

■ Specifications

Type	Rated thermal current (A)	Rated operation current (A)		(KW) Controllable power of motor				Type of auxiliary contact	
		380V		660V		AC-3			
		380V	660V	380V	660V	380V	660V		
3SC7-F40	20	9	7	4	5.5	1.4	2.4	NO NC 1NO+1NC 2NO+2NC	
3SC7-F41	20	12	8.5	5.5	7.5	1.9	3.3		
3SC7-F42	30	16	12.5	7.5	11	3.5	6		
3SC7-F43	30	22	16.5	10	15	4	6.6		
3SC7-F44	55	32	24	15	22	7.5	13		
3SC7-F45	55	38	24	18.5	22	9	15.5		
3SC7-F46	80	45	40	22	37	12	20.8		
3SC7-F47	80	63	60	30	55	14	24.3		
3SC7-F48	100	75	60	37	55	17	29.5		
3SC7-F49	100	85	80	45	75	21	36		
3SC7-F50	160	110	95	55	90	27	46.9	2NC+2NO 4NC+4NO	
3SC7-F51	160	140	120	75	110	35	60		
3SC7-F52	200	170	160	90	150	38	66		
3SC7-F53	210	205	165	110	160	50	86		
3SC7-F54	300	250	230	132	220	58	100		
3SC7-F55	300	300	260	160	250	66	114		
3SC7-F56	400	400	380	200	355	81	140		
3SC7-F68	630	630	600	335	560	160	278		

3SC7-B AC Contactor



3SC7-B40



3SC7-B44

■ Application

3SC7-B AC Contactor is suitable for application in the circuits up to the rated voltage 660V AC 50Hz/60Hz, rated current 630A, for making and breaking, and for frequent starting and controlling the motor. After combined with the mechanical interlocking device, it becomes 3SC7-B convertible contactor for controlling, starting breaking and reversing the motor.

The products comply with IEC60947-4.

■ Specifications

Type	Rated thermal current(A)	Rated operating current at 380V(A)	Rated operating current at 660V(A)	The power of controlled motor (KW)		Type of auxiliary contact
				380(V)	660(V)	
3SC7-B40	22	9	7.2	4	5.5	1NO 1NC 1NO+1NC 2NO+2NC
3SC7-B41	22	12	9.5	5.5	7.5	
3SC7-B42	35	16	13.5	7.5	11	
3SC7-B43	35	22	13.5	11	11	
3SC7-B44	35	22	18	15	15	2NO+2NC

3SJ7 Auxiliary Contactor



3SJ7-80

■ Application

3SJ7 auxiliary contactor is the auxiliary for controlled circuit with voltage of AC 50/60Hz, 660V and DC 660V. It controls all kinds of magnetic coil and amplifies or transfers signal to relative controlled element simultaneously, characterized by high performance & long service life.

■ Specifications

Type	Type of contact	
	NO	NC
3SJ7-80	40-0A	4
	31-0A	3
	22-0A	2
	13-0A	1
	04-0A	4
3SJ7-82	80-0A	8
	71-0A	7
	62-0A	6
	53-0A	5
	44-0A	4

Rated Voltage	Rated operating current (A)		Controllable motor power AC3(KW)
	Ie=AC11、AC14	DC11	
110V	-	0.9	-
220V	10	0.45	2.2
380V	6	-	4
440V	-	0.25	4
660V	2	-	4

3SC7-F/N 3SC8-D/N Mechanical Interlocking Contactor

■ Application

The contactor is suitable for using in the circuits up to the rated voltage 660V AC 50Hz or 60Hz, current 300A, for convertibley controlling the motor. Its mechanical interlocking device ensures contact changeover of two convertible contactors.

■ Specifications



3SC7-F/N46

Type	Rated thermal current (A)	Rated operating current (A)		Controllable power of motor			
		380V	660V	380V	660V	380V	660V
3SC7-F/N40	20	9	7	4	5.5	1.4	2.4
3SC7-F/N41	20	12	8.5	5.5	7.5	1.9	3.3
3SC7-F/N42	30	16	12.5	7.5	11	3.5	6
3SC7-F/N43	30	22	16.5	10	15	4	6.6
3SC7-F/N44	55	32	24	15	22	7.5	13
3SC7-F/N45	55	38	24	18.5	22	9	15.5
3SC7-F/N46	80	45	40	22	37	12	20.8
3SC7-F/N47	80	63	60	30	55	14	24.3
3SC7-F/N48	100	75	60	37	55	17	29.5
3SC7-F/N49	100	85	80	45	75	21	36
3SC7-F/N50	160	110	95	55	90	27	46.9
3SC7-F/N51	160	140	120	75	110	35	60
3SC7-F/N52	200	170	160	90	150	38	66
3SC7-F/N53	210	205	165	110	160	50	86
3SC7-F/N54	300	250	230	132	220	58	100
3SC7-F/N55	300	300	260	160	250	66	114



3SC8-D/N

Type	Rated current AC-3(A)	Controlled power(KW)				
		220V	380V	415V	440V	660V
3SC8-D/N09	9	2.2	4	4	4	5.5
3SC8-D/N12	12	5.5	5.5	5.5	5.5	7.5
3SC8-D/N18	16	7.5	7.5	9	9	10
3SC8-D/N25	25	5.5	11	11	11	15
3SC8-D/N32	32	7.5	15	15	15	18.5
3SC8-D/N40	40	18.5	18.5	22	22	30
3SC8-D/N50	50	15	22	25	30	33
3SC8-D/N63	63	18.5	30	37	37	37
3SC8-D/N80	80	22	37	45	45	45
3SC8-D/N95	95	22	45	45	45	41
3SC8-D/N115	115	30	55	60		
3SC8-D/N150	150	40	75	80		
3SC8-D/N170	170	45	80	90		
3SC8-D/N205	205/185	60/55	100/90	110/100		
3SC8-D/N205/4	215/205	65/60	110/100	115/110		
3SC8-D/N245	245	70	120	130		
3SC8-D/N245/4	245/225	70/68	120/110	130/120		
3SC8-D/N300	300	85	150	160		
3SC8-D/N300/4	320/300	90/85	160/150	170/160		
3SC8-D/N410	410/-	110	210	225		
3SC8-D/N410/4	440/410	120/110	220/210	235/225		
3SC8-D/N475	475/-	145	250	270		
3SC8-D/N475/4	500/475	150/145	260/250	285/270		
3SC8-D/N620	620/-	180	330	400		



3SC8-F/N Range Reversing Contactor

■ Specification

Model	Rated insulation voltage(V)	For distribution circuits	Rated thermal current (A)	For motor control	Rated operation current 3p-440V50/60Hz LL/NL	Rated operation power For AC3 difference in temperature of load rated motor power 0≤55°C					
						220V		380V		415/440V	
						Kw	hp	Kw	hp	Kw	hp
3SC8-F/N115	1000				NL/LL 120/-	30/-	40/-	55/-	75/-	60/-	80/-
3SC8-F/N115	1000		200		NL/LL 150/115	40/30	55/40	75/55	100/75	80/60	110/80
3SC8-F/N150	1000				NL/LL 150/-	40/-	53/-	75/-	100/-	80/-	110/-
3SC8-F/N150/4	1000		250		NL/LL -/150	-/40	-/55	-/75	-/100	-/80	-/110
3SC8-F/N185	1000				NL/LL 185/-	55/-	75/-	90/-	125/-	100/-	135/-
3SC8-F/N185/4	1000		275		NL/LL 205/185	60/55	80/75	100/90	135/125	110/100	150/135
3SC8-F/N225	1000				NL/LL 225/-	68/-	90/-	110/-	150/-	120/-	160/-
3SC8-F/N225/4	1000		315		NL/LL 245/225	70/68	95/90	120/110	160/150	130/120	175/160
3SC8-F/N265	1000				NL/LL 265/-	75/-	100/-	132/-	180/-	140/-	190/-
3SC8-F/N265/4	1000		350		NL/LL 300/265	85/75	115/100	150/132	200/180	160/140	215/190
3SC8-F/N330	1000				NL/LL 330/-	100/-	135/-	165/-	221/-	180/-	240/-
3SC8-F/N330/4	1000		400		NL/LL 350/330	110/100	150/135	175/165	235/221	195/180	260/240
3SC8-F/N400	1000				NL/LL 400/-	115/-	155/-	200/-	270/-	220/-	300/-
3SC8-F/N400/4	1000		500		NL/LL 450/400	132/110	180/150	220/200	300/270	250/220	340/300
3SC8-F/N500	1000				NL/LL 500/-	147/-	200/-	250/-	340/-	280/-	380/-
3SC8-F/N500/4	1000		700		NL/LL 630/500	185/147	250/200	335/250	450/340	355/280	480/380
3SC8-F/N630	1000				NL/LL 630/-	200/-	270/-	335/-	450/-	375/-	500/-
3SC8-F/N630/4	1000		1000		NL/LL 800/630	200/220	300/270	400/335	540/450	450/375	610/500
3SC8-F/N800	1000				NL/LL 800/-	200/-	300/-	400/-	540/-	450/-	610/-
3SC8-F/N780	1000				NL/LL 780/-	220/-	300/-	400/-	540/-	425/-	570/-
3SC8-F/N780/4	1000		1500		NL/LL 1000/780	280/220	380/300	500/400	680/540	530/425	720/570

■ Accessories

- ◆ Auxiliary contact group
- ◆ Model and Implication

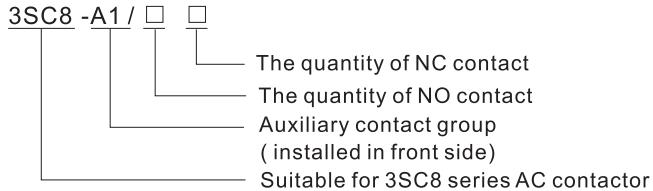


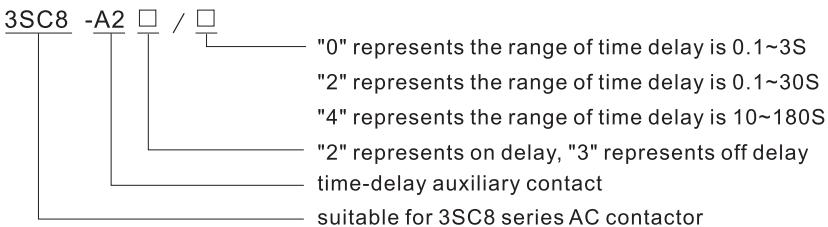
Table1 : specification of auxiliary contact group

Table1:

Auxiliary contact group	Structure form	Outline dimension L×W×H	Type quantity of contact		Contact group type	Structure form	Type quantity of contact		Outline dimension L×W×H
			NO	NC			NO	NC	
3SC8-A1/40	Four groups of contacts	45×48×38.5	4	0	3SC8-A1/20	Two groups of contacts	2	0	26×48×38.5
3SC8-A1/31			3	1	3SC8-A1/11		1	1	
3SC8-A1/22			2	2	3SC8-A1/02		0	2	
3SC8-A1/13			1	3					
3SC8-A1/04			0	4					

- ◆ Time-delay auxiliary contact

- ◆ Model and Implication



◆ The type of time-delay auxiliary contact, refer to table2

Table2:

Delay contact type	Structure form	Delay scope	Type quantity of delay contact	Outline dimension L×W×H
3SC8-A2/T0	On delay	0.1~3s	1NO+1NC	45×48×59.5
3SC8-A2/T2		0.1~30s		
3SC8-A2/T4		10~180s		
3SC8-A3/R0		0.1~3s		
3SC8-A3/R2		0.1~30s		
3SC8-A3/R4		10~180s		

Table3:

3SC8X-D2:	For 3SC8-09 to 3SC8-18
3SC8X-D4:	For 3SC8-25 to 3SC8-32
3SC8X-D6:	For 3SC8-40 to 3SC8-95
3SC8X-FF:	For 3SC8-F115 to 3SC8-F150
3SC8X-FG:	For 3SC8-F185 to 3SC8-F225
3SC8X-FH:	For 3SC8-F265 to 3SC8-F330
3SC8X-FJ:	For 3SC8-F400
3SC8X-FK:	For 3SC8-F500
3SC8X-FL:	For 3SC8-F630
3SC8X-FK(1):	For 3SC8-F780

■ Other accessories and outline of main components



54×22.5(14)×54
3SC8-A4X

3SC8X-D2(09~18)
(see Table3)

3SC8X-D6 (40~95)
(see Table3)

73×17.5(12.5)×72
3SC8-A8

3SC8-A1D

3SC8-A1C

3SC8-P DC Operated AC Contactor



3SC8-P09



3SC8-P18



3SC8-P95



CA2-DN22
CA2-DN31
CA2-DN40



3SC8-P/N-25



3SC8-P/N-09

Application

3SC8-P Series DC operated AC contactor is suitable for the circuit up to rated voltage 660V AC 50Hz/60Hz, and rated current 9-95A in AC-3/380V load circuits, for remote control of circuit making, breaking and frequent starting AC motors. It can also be combined with the auxiliary contact block, air delay, thermal relay devices etc.

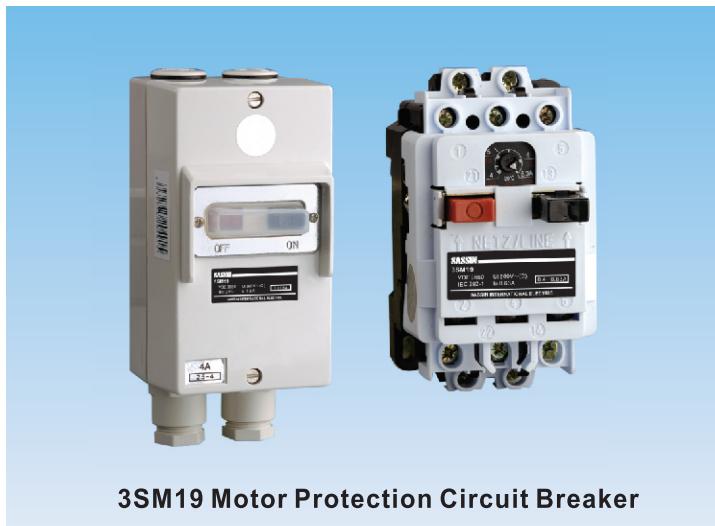
Specification

Type	Rated working current(A) Ie(A)(AC-3)	Rated heat current Ith(A)	Rated working voltage Ue A	Rated insulating voltage Ui A	Controlled Power (KW)					Electrical life (AC-3) 10 ⁴	Contacts Number	
					220V	380V	415V	440V	660V			
3SC8-P09	9	20	380V	660V	2.2	4	4	4	5.5	100	3P+NO 3P+NC	
3SC8-P12	12	20			3	5.5	5.5	5.5	7.5	100		
3SC8-P18	18	32			4	7.5	9	9	9	100		
3SC8-P25	25	40			5.5	11	11	11	15	100		
3SC8-P32	32	50			7.5	15	15	15	18.5	80		
3SC8-P40	40	60			11	18.5	22	22	30	80		
3SC8-P50	50	80	660V		15	22	25	30	33	60	3P+NO+NC	
3SC8-P65	65	80			18.5	30	37	37	37	60		
3SC8-P80	80	125			22	37	45	45	45	60		
3SC8-P95	95	125			25	45	45	45	45	60		

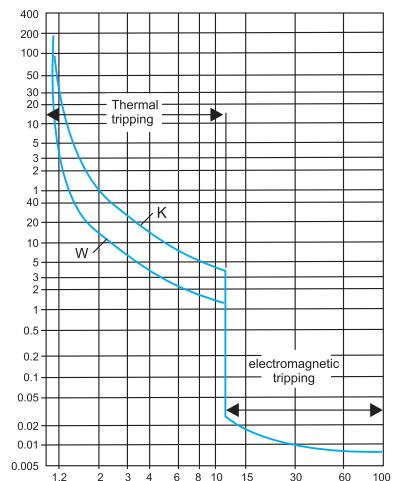


■ 3SC8-K 3SC8-E Specification

Type	3SC8-K0610 3SC8-K0601 3SC8-K06004 3SC8-K06008	3SC8-K0910 3SC8-K0901 3SC8-K09004 3SC8-K09008	3SC8-K1210 3SC8-K1201 3SC8-K12004 3SC8-K12008	3SC8-E0610 3SC8-E0601 3SC8-E06008	3SC8-E0910 3SC8-E0901 3SC8-E09008
Rated working voltage(V)	660 (690)				
Rated working current(A)	380V	AC-3 6 2.6	9 3.5	12 5	6 2.6
Rated thermal current(A)		16	16	20	16
Max Connecting. current(A)	380V 660V 60 90 72 108				
Max Breaking. current(A)	380V 660V	48 60	72 90	96 120	48 60
AC3 capacity of 3 phase squirrel-cage motor AC3(kW)	220V 380V 660V	1.5 2.2 3	2.2 4 4	3 5.5 5.5	1.5 2.2 3
Operation frequency time/h	Electrical life	AC-3 AC-4	1200 300		
Electrical life $\times 10^4$	AC-3 AC-4		100 20		
Mechanical life	$\times 10^4$		1000		
Wire (mm ²)			2.5		
Suitable fuse	RT16-20	RT16-20		NTOO-16	
Number of contacts	3P+NO 3P+NC 4NO 2NO+2NC	3P+NO 3P+NC 4NO 2NO+2NC	3P+NO 3P+NC 4NO 2NO+2NC	3P+NO 3P+NC 2NO+2NC	3P+NO 3P+NC 2NO+2NC



■ Characteristic Curve



■ Application

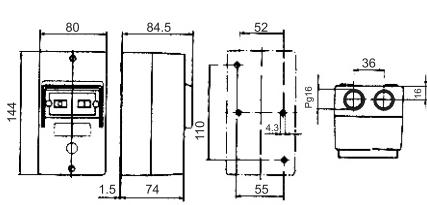
This product is suitable in the circuit up to AC 660V or 440V and current 0.1 to 16A. It can be used for protection of overload and short circuit of 3-phase squirrel-cage motors, as a motor starter at full voltage. It is applied to protect the motor from under-voltage. It can also be used in operating AC single phase load and DC load. It monitors the fuse switch disconnection or acts as protection for phase failure.

This product range includes basic switch and 26 accessories. It complies with standard IEC60947-2.

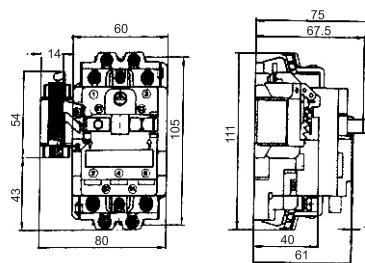
■ Specification

Rated current for tripping (A)	0.16	0.25	0.40	0.63	1.0	1.6	2.5	4.0	6.3	10	16
Rated of fixed current (A)	0.1~	0.16~	0.25~	0.40~	0.63~	1.0~	1.6~	2.5~	4.0~	6.3~	9.5~
Code	05	09	13	17	21	25	29	33	37	42	46

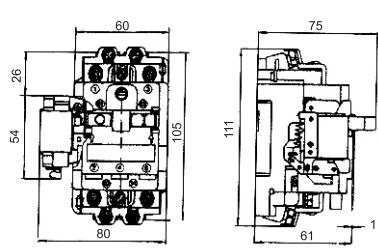
■ Dimensions



Switch with GJ plastic seal mounting base



3SM19 switch with under-voltage release



Switch with shunt release



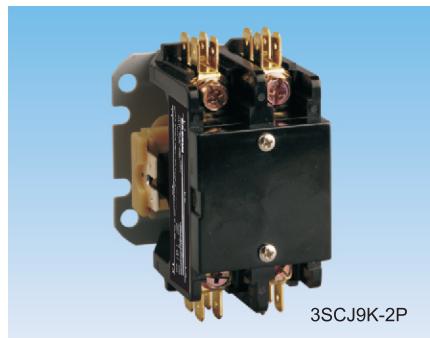
■ Application

3SM18 series motor protection circuit breaker are mainly used for the overload and short circuit protection of the motor in the power circuit AC 50/60Hz, up to 660V, 0.1-80A, as a full-voltage starter to start and stop the motor, under the AC3 load or for the overload and short circuit protection of the circuit and power equipment in the power distribution network.

■ Specification

Type	Standard power ratings of 3-phase motors 50/60Hz in category AC-3						Setting range	
	220V		380V		660V			
	KW	KW	KW	KW	KW	KW		
3SM18-1-M01	--	--	--	--	--	--	0.1-0.16	
3SM18-1-M02	--	--	--	--	--	--	0.16-0.25	
3SM18-1-M03	--	--	--	--	--	--	0.25-0.4	
3SM18-1-M04	--	--	--	--	--	0.37	0.4-0.63	
3SM18-1-M05	--	--	--	0.37	0.37	0.55	0.63-1	
3SM18-1-M06	--	0.37	--	0.55	0.75	1.1	1-1.6	
3SM18-1-M07	0.37	0.75	1.1	1.1	1.1	1.5	1.6-2.5	
3SM18-1-M08	0.75	1.5	1.5	1.5	2.2	3	2.5-4	
3SM18-1-M10	1.1	2.2	2.2	3	3.7	4	4-6	
3SM18-1-M14	2.2	4	4	4	5.5	7.5	6-10	
3SM18-1-M20	4	7.5	7.5	7.5	10	11	10-16	
3SM18-1-M21	5.5	10	9	9	11	15	16-20	
3SM18-1-M22	5.5	11	11	11	15	18.5	20-25	
3SM18-2-M01/RS01	--	--	--	--	--	--	0.1-0.16	
3SM18-2-M02/RS02	--	--	--	--	--	--	0.16-0.25	
3SM18-2-M03/RS03	--	--	--	--	--	--	0.25-0.4	
3SM18-2-M04/RS04	--	--	--	--	--	0.37	0.4-0.63	
3SM18-2-M05/RS05	--	--	--	0.37	0.37	0.55	0.63-1	
3SM18-2-M06/RS06	--	0.37	--	0.55	0.75	1.1	1-1.6	
3SM18-2-M07/RS07	0.37	0.75	0.75	1.1	1.1	1.5	1.6-2.5	
3SM18-2-M08/RS08	0.75	1.5	1.5	1.5	2.2	3	2.5-4	
3SM18-2-M10/RS10	1.1	2.2	2.2	3	3.7	4	4-6.3	
3SM18-2-M14/RS14	2.2	4	4	4	5.5	7.5	6-10	
3SM18-2-M16/RS16	3	5.5	5.5	7.5	7.5	9	9-14	
3SM18-2-M20/RS20	4	7.5	9	9	9	11	13-18	
3SM18-2-M21/RS21	5.5	11	11	11	11	15	17-23	
3SM18-2-M22/RS22	5.5	11	11	11	15	18.5	20-25	
3SM18-2-M32/RS32	7.5	15	15	15	18.5	26	24-32	
3SM18-3-M06	--	0.37	--	0.55	0.75	1.1	1-1.6	
3SM18-3-M07	0.37	0.75	1.1	1.1	1.1	1.5	1.6-2.5	
3SM18-3-M08	0.75	1.5	1.5	1.5	2.2	3	2.5-4	
3SM18-3-M10	1.1	2.2	2.2	3	3.7	4	4-6	
3SM18-3-M14	2.2	4	4	4	5.5	7.5	6-10	
3SM18-3-M20	4	7.5	7.5	7.5	10	11	10-16	
3SM18-3-M25	5.5	11	11	11	15	18.5	16-25	
3SM18-3-M40	11	18.5	22	22	25	33	25-40	
3SM18-3-M63	15	30	33	33	40	55	40-63	
3SM18-3-M80	22	40	45	45	55	63	56-80	

3SCJ9K Definite Purpose Contactor



■ Application

This series contactors are mainly applicable to circuit of AC 50Hz or 60Hz, rated working voltage up to 600V and rated working current up to 90A, used to make and break the circuit.

P/N	AMPS	VOLTS
3SCJ9K-1.5P	25A	24V/120V/240V
3SCJ9K-1.5P	30A	24V/120V/240V
3SCJ9K-1.5P	40A	24V/120V/240V
3SCJ9K-2P	25A	24V/120V/240V
3SCJ9K-2P	30A	24V/120V/240V
3SCJ9K-2P	40A	24V/120V/240V
3SCJ9K-3P	30A	24V/120V/240V
3SCJ9K-3P	40A	24V/120V/240V
3SCJ9K-3P	50A	24V/120V/240V
3SCJ9K-3P	60A	24V/120V/240V
3SCJ9K-3P	75A	24V/120V/240V
3SCJ9K-3P	90A	24V/120V/240V