

Алматы (7273) 495-231
 Ангарск (3955) 60-70-56
 Архангельск (8182) 63-90-72
 Астрахань (8512) 99-46-04
 Барнаул (3852) 73-04-60
 Белгород (4722) 40-23-64
 Благовещенск (4162) 22-76-07
 Брянск (4832) 59-03-52
 Владивосток (423) 249-28-31
 Владикавказ (8672) 28-90-48
 Владимир (4922) 49-43-18
 Волгоград (844) 278-03-48
 Вологда (8172) 26-41-59
 Воронеж (473) 204-51-73
 Екатеринбург (343) 384-55-89

Иваново (4932) 77-34-06
 Ижевск (3412) 26-03-58
 Иркутск (395) 279-98-46
 Казань (843) 206-01-48
 Калининград (4012) 72-03-81
 Калуга (4842) 92-23-67
 Кемерово (3842) 65-04-62
 Киров (8332) 68-02-04
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 Кострома (4942) 77-07-48
 Краснодар (861) 203-40-90
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 Курск (4712) 77-13-04
 Курган (3522) 50-90-47
 Липецк (4742) 52-20-81

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 Мурманск (8152) 59-64-93
 Набережные Челны (8552) 20-53-41
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 Новокузнецк (3843) 20-46-81
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 Омск (3812) 21-46-40
 Орел (4862) 44-53-42
 Оренбург (3532) 37-68-04
 Пенза (8412) 22-31-16
 Петрозаводск (8142) 55-98-37
 Псков (8112) 59-10-37
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 Рязань (4912) 46-61-64
 Самара (846) 206-03-16
 Санкт-Петербург (812) 309-46-40
 Саратов (845) 249-38-78
 Севастополь (8692) 22-31-93
 Саранск (8342) 22-96-24
 Симферополь (3652) 67-13-56
 Смоленск (4812) 29-41-54
 Сочи (862) 225-72-31
 Ставрополь (8652) 20-65-13
 Сургут (3462) 77-98-35
 Сыктывкар (8212) 25-95-17
 Тамбов (4752) 50-40-97
 Тверь (4822) 63-31-35

Тольятти (8482) 63-91-07
 Томск (3822) 98-41-53
 Тула (4872) 33-79-87
 Тюмень (3452) 66-21-18
 Ульяновск (8422) 24-23-59
 Улан-Удэ (3012) 59-97-51
 Уфа (347) 229-48-12
 Хабаровск (4212) 92-98-04
 Чебоксары (8352) 28-53-07
 Челябинск (351) 202-03-61
 Ставрополь (8652) 20-65-13
 Череповец (8202) 49-02-64
 Чита (3022) 38-34-83
 Якутск (4112) 23-90-97
 Ярославль (4852) 69-52-93

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3SC8-F, contactors, up to 400 kW

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

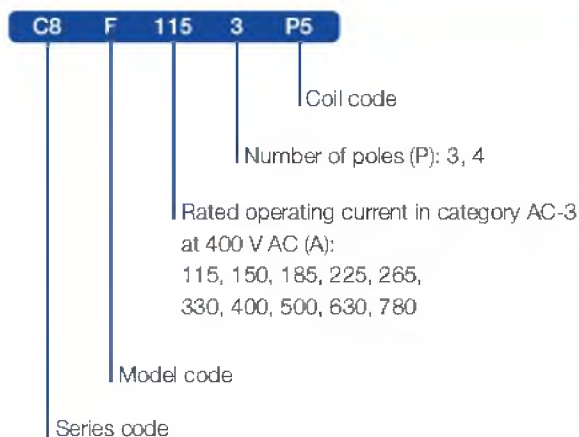
- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure



Applications And Functions For AC Contactor 3SC8-F

- Used for controlling 3-phase motors and generally for controlling power circuits
- Used for many other applications such as isolation, capacitor switching and lighting

Instruction of type code






Technical specifications for contactor 3SC8-F



Model		3SC8-F115	3SC8-F150	3SC8-F185	3SC8-F225	3SC8-F265	3SC8-F330	3SC8-F400	3SC8-F500	3SC8-F630	3SC8-F780	
Standard		IEC 60947-4-1										
Number of poles		3, 4	3, 4	3, 4	3, 4	3	3	3, 4	3, 4	3, 4	3, 4	
Rated operational current I _e (A)	In AC-3	115	150	185	225	265	330	400	500	630	780	
	In AC-1	200	250	275	315	350	400	500	700	1000	1600	
Rated operational voltage U _e (V) Up to		1000										
Frequency limits of the operational current (time/h)		16-200										
Rated conventional thermal current I _{th} (A)		200	250	275	315	350	400	500	700	1000	1600	
Rated insulation voltage U _i (V)		1000										
Rated impulse withstand voltage U _{imp} (kV)		8										
Rated frequency (Hz)		50/60										
Rated making capacity (A)		10 × In AC-3 or 12 × In AC-4										
Rated breaking capacity (A)	400 V	8 × In AC-3 or 10 × In AC-4										
Rated operational power in category AC-3 (kW)	220/230/240 V	30	40	55	68	75	100	129	147	200	220	
	380/400 V	55	75	90	100	132	160	200	250	335	400	
	660/690 V	80	100	120	129	180	220	280	355	450	475	
Short-circuit protection by fuse (A)	Motor circuit (type aM)	125	160	200	250	315	400	400	500	630	-	
	With thermal overload relay (type gG)	200	200	315	315	500	500	630	800	800	-	
	gG fuses	200	250	315	315	400	500	500	800	1000	-	
Average impedance per pole (mΩ)		0.37	0.35	0.33	0.32	0.3	0.28	0.26	0.18	0.12	0.1	
Add-on auxiliary contact blocks	Front	identical to those used on 3SC8 contactors										
	Side	-										
	Front time delay	identical to those used on 3SC8 contactors										
	Front dust and damp protected	-										
Reversing contactor type		3SC8-FN										
Associated thermal overload relays		3SR8-F53						3SR8-F73				
Operation cycles (times/hour) In AC-3		1200	1200	600	600	600	600	600	600	600	600	
Electrical life (× 10 ⁶ times)		1.2	1.2	1	1	0.8	0.8	0.8	0.8	0.8	0.8	
Mechanical life (× 10 ⁶ times)		10	10	6	6	6	6	6	6	6	6	
Matching fuse model		RT16-1	RT16-1	RT16-2	RT16-2	RT16-2	RT16-3	RT16-3	RT16-4	RT16-4	RT16-4	
Tightening torque (N·m) Connection		0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	4	4	
Cabling cross section CU (mm ²)		95	120	150	185	240	240	2 × 150	2 × 240	240	300	
Screw size		M6	M8	M8	M10	M10	M10	M10	M12	M12	M4	
Degree of protection		IP20										
Ambient air temperature (°C)		-5 to +40, max. 95 % humidity										
Storage temperature (°C)		-40 ~ +70										
Maximum operating altitude (meters)		2000										
Flame resistance	Conforming to UL 94	V1										

Selection and ordering data

3SC8-F contactor








	Rated operating current 400 V AC-3 (A)	Conventional thermal current (A)	Standard power ratings of 3 phase motors 50-60 Hz AC-3			Poles	230 V 50 Hz Please contact us for other coil voltage	Type code	
			220 V 230 V (KW)	380 V 400 V (KW)	415 V 440 V (KW)			Type code	Order code
	115	200	30	55	59	3	C8 F1153P5	12093	
							C8 F1154P5	12103	
	150	220	40	75	80	3	C8 F1503P5	12094	
							C8 F1504P5	12104	
	185	275	55	90	100	3	C8 F1853P5	12095	
							C8 F1854P5	12105	
	225	315	63	110	110	3	C8 F2253P5	12096	
							C8 F2254P5	12106	
	265	350	75	132	140	3	C8 F2653P5	12097	
							C8 F2654P5	12107	
	330	400	100	165	180	3	C8 F3303P5	12098	
							C8 F3304P5	12108	
	400	500	115	200	220	3	C8 F4003P5	12099	
							C8 F4004P5	12109	
	500	700	147	250	280	3	C8 F5003P5	12100	
							C8 F5004P5	12110	
	630	1000	200	335	375	3	C8 F6303P5	12101	
							C8 F6304P5	12111	
	780	1500	220	400	425	3	C8 F7803P5	12102	
							C8 F7804P5	12112	

3SC8-FN reversing contactors

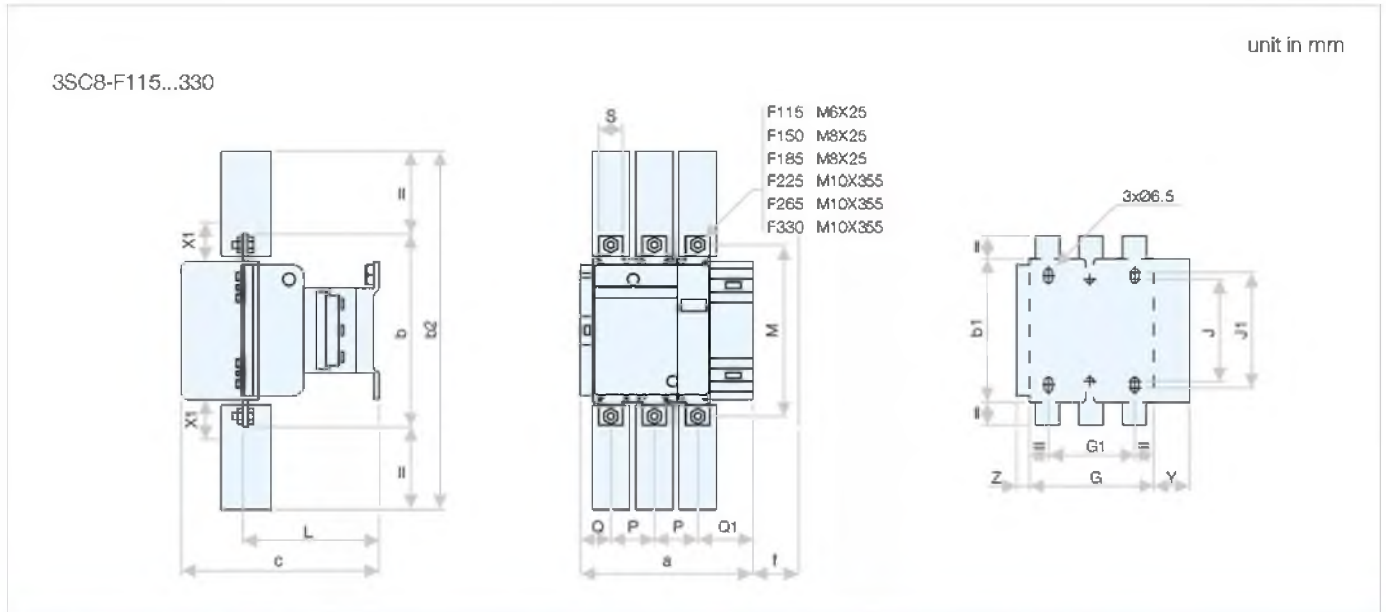
	Rated operating current 400 V AC-3 (A)	Conventional thermal current (A)	Standard power ratings of 3 phase motors 50-60 Hz AC-3			Poles 	230 V 50 Hz Please contact us for other coil voltage	
			220 V 230 V (KW)	380 V 400 V (KW)	415 V 440 V (KW)		Type code	Order code
	115	200	30	55	60	3	C8 FN115P5	15718
						4	C8 FN1154P5	15719
	150	250	40	75	80	3	C8 FN150P5	15720
						4	C8 FN1504P5	15721
	185	275	55	90	100	3	C8 FN185P5	15722
						4	C8 FN1854P5	15723
	225	315	63	110	120	3	C8 FN225P5	15724
						4	C8 FN2254P5	15725
	265	350	75	132	140	3	C8 FN265P5	15726
						4	C8 FN2654P5	15727
	330	400	100	165	180	3	C8 FN330P5	15728
						4	C8 FN3304P5	15729
	400	500	115	200	220	3	C8 FN400P5	15730
						4	C8 FN4004P5	15731
	500	700	147	250	280	3	C8 FN500P5	15732
						4	C8 FN5004P5	15733
630	1000	200	335	375	3	C8 FN630P5	15734	
					4	C8 FN6304P5	15735	
780	1500	220	400	425	3	C8 FN780P5	15736	
					4	C8 FN7804P5	15737	

Selection and ordering data

Coil for contactor 3SC8-F

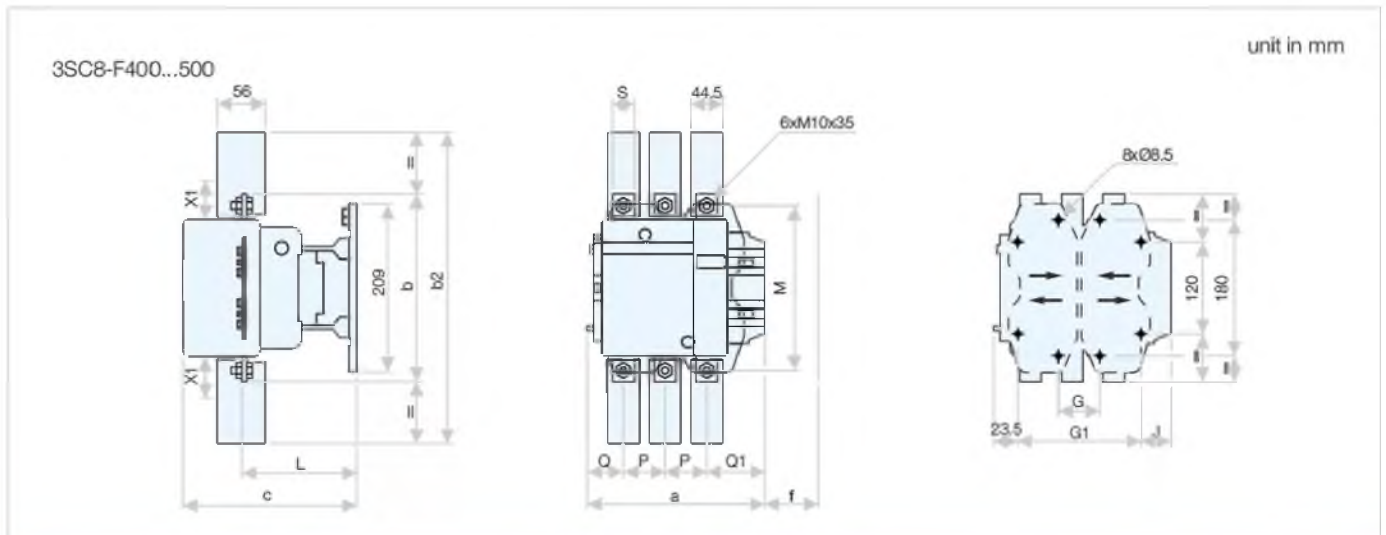
	Standard control circuit voltage (V AC)	Rated frequency (Hz)	Voltage code	Type code	Order code
	230	50/60	P7	C8X-FFP7	32002
	240	50/60	U7	C8X-FFU7	32003
	380	50/60	Q7	C8X-FFQ7	32004
	440	50/60	R7	C8X-FFR7	32006
	230	50/60	P7	C8X-FGP7	32008
	240	50/60	U7	C8X-FGU7	32009
	380	50/60	Q7	C8X-FGQ7	32010
	440	50/60	R7	C8X-FGR7	32012
	230	50/60	P7	C8X-FHP7	32014
	240	50/60	U7	C8X-FHU7	32015
	380	50/60	Q7	C8X-FHQ7	32016
	440	50/60	R7	C8X-FHR7	32018
	230	50/60	P7	C8X-FJP7	32020
	240	50/60	U7	C8X-FJU7	32021
	380	50/60	Q7	C8X-FJQ7	32022
	440	50/60	R7	C8X-FJR7	32024
	230	50/60	P7	C8X-FKP7	32026
	240	50/60	U7	C8X-FKU7	32027
	380	50/60	Q7	C8X-FKQ7	32028
	440	50/60	R7	C8X-FKR7	32030
	230	50/60	P7	C8X-FLP7	32032
	240	50/60	U7	C8X-FLU7	32033
	380	50/60	Q7	C8X-FLQ7	32034
	440	50/60	R7	C8X-FLR7	32036
	230	50/60	P7	C8X-FXP7	32038
	240	50/60	U7	C8X-FXU7	32039
	380	50/60	Q7	C8X-FXQ7	32040
	440	50/60	R7	C8X-FXR7	32042

Outline and installation dimensions (Series 3SC8-F)



3SC8-F		a	b	b1	b2	c	f	G	G1	J	J1	L	M	P	Q	Q1	S	Y	Z	
115	3P	163.5	162	137	265	171	131	106	80	106	120	107	147	37	29.5	60	20	26	44	13.5
	4P	200.5	162	137	265	171	131	143	80	106	120	107	147	37	29.5	60	20	26	44	13.5
150	3P	163.5	170	137	301	171	131	106	80	106	120	107	150	40	26	57.5	20	34	44	13.5
	4P	200.5	170	137	301	171	131	143	80	106	120	107	150	40	26	55.5	20	34	44	13.5
185	3P	168.5	174	137	305	181	130	111	80	106	120	113.5	154	40	29	59.5	20	34	44	13.5
	4P	208.5	174	137	305	181	130	151	80	106	120	113.5	154	40	29	59.5	20	34	44	13.5
225	3P	168.5	197	137	364	181	130	111	80	106	120	113.5	172	48	21	51.5	25	44.5	44	13.5
	4P	208.5	197	137	364	181	130	151	80	106	120	113.5	172	48	17	47.5	25	44.5	44	13.5
265	3P	201.5	203	145	375	213	147	142	98	106	120	141	178	48	39	66.5	25	44.5	38	21.5
	4P	244.5	203	145	375	213	147	190	98	106	120	141	178	48	34	66.5	25	44.5	38	21.5
330	3P	213	206	145	375	219	147	154.5	96	106	120	145	181	48	43	74	25	44.5	38	20.5
	4P	261	206	145	375	219	147	202.5	96	106	120	145	181	48	43	74	25	44.5	38	20.5

f = minimum distance required for coil removal

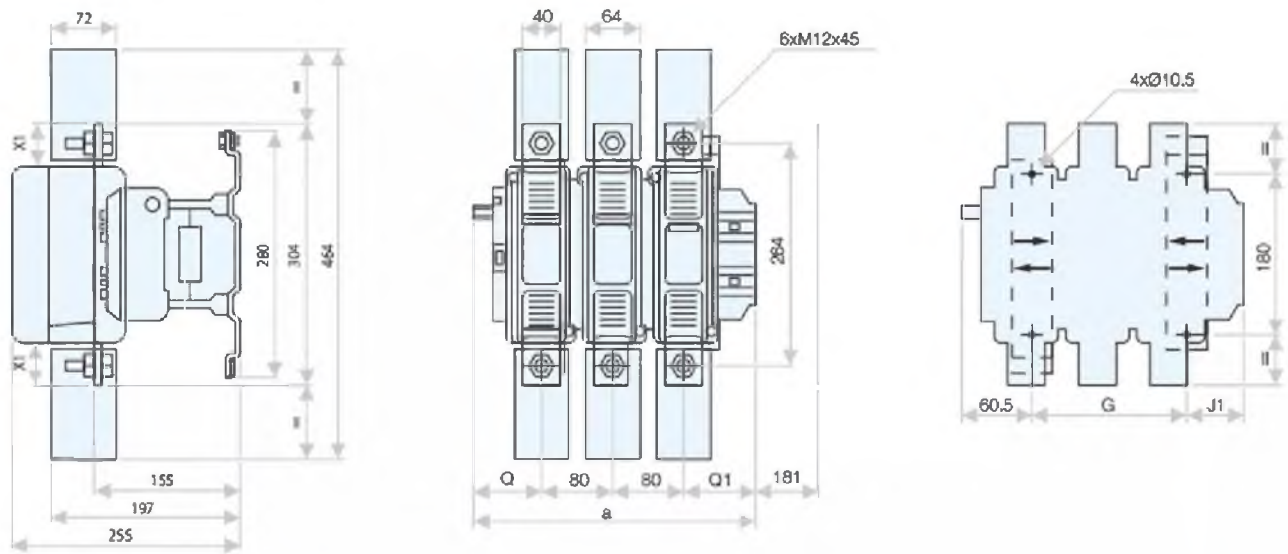


3SC8-F		a	b	b2	c	f	G*	G min.	G max.	G1*	G1 min.	G1 max.	J	L	M	P	Q	Q1	S
400	2P	213	206	375	219	119	80	66	102	170	156	192	19.5	145	181	48	69	96	25
	3P	213	206	375	219	119	80	66	102	170	156	192	19.5	145	181	48	43	74	25
	4P	261	206	375	219	119	80	66	150	170	156	240	67.5	145	181	48	43	74	25
500	2P	233	238	400	232	141	80	66	120	170	156	210	39.5	146	208	55	76	102	30
	3P	233	238	400	232	141	80	66	120	170	156	210	39.5	146	208	55	46	77	30
	4P	288	288	400	232	141	140	66	175	230	156	265	34.5	146	208	55	46	77	30

Outline and installation dimensions (Series 3SC8-F)

unit in mm

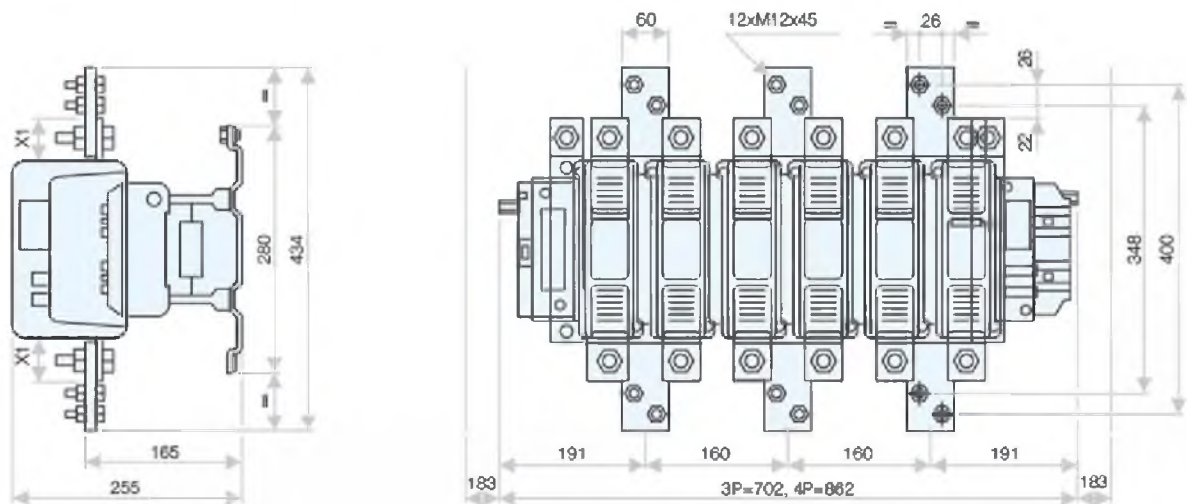
3SC8-F630...800



3SC8-F		a	G	G min.	G max.	J1	Q	Q1
630	2P	309	180	100	195	68.5	102	127
630, 800	3P	309	180	100	195	68.5	60	89
630	4P	309	240	150	275	68.5	60	89

3SC8-F780

unit in mm



Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Technical Specifications For Type 3SC8

Type	3SC8-09 3SC8-12 3SC8-18 3SC8-25 3SC8-32 3SC8-40 3SC8-50 3SC8-65 3SC8-80 3SC8-95											
Standard	IEC 60947-4-1											
Number of poles	3, 4 3, 4 3 3, 4 3 3, 4 3, 4 3, 4 3, 4 3, 4											
Rated operational current I_e (A)	380 V	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
	660 V	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 operational voltage U_e (V)	440 V	In AC-1	20	25	32	40	50	60	80	80	110	125
Rated operational voltage U_e (V)	Up to 690											
Frequency limits of the operational current (time/h)	25-400											
Rated conventional thermal current I_{th} (A)	25 25 32 40 50 60 80 80 125 125											
Rated insulation voltage U_i (V)	690											
Rated impulse withstand voltage U_{imp} (kV)	8											
Rated frequency (Hz)	50/60											
Rated making capacity (A)	400 V	10 × I_e AC-3 or 12 × I_e AC-4										
Rated breaking capacity (A)	400 V	8 × I_e AC-3 or 10 × I_e AC-4										
Rated operational power in category AC-3 (kw)	220/230/240 V	2.2	3	4	5.5	7.5	11	15	18.5	22	25	
	380/400 V	4	5.5	7.5	11	15	18.5	22	30	37	45	
	660/690 V	5.5	7.5	10	15	18.5	30	33	37	45	45	
Fuse protection against short-circuit (A)	Without thermal overload relay, Gg fuse Type 1	20	25	32	40	50	63	80	80	125	160	
		Type 2	20	20	25	32	40	50	63	80	150	150
	With thermal overload relay	see specification and ordering data of 3SR8, for aM or gG fuse ratings corresponding to the associated thermal overload relay										
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	3SC8-A1 and 3SC8-A1D										
	Side	3SC8-A1C										
	Front time delay	3SC8-A2										
	Front dust and damp protected	■										
Reversing contactor type	3SC8-DN											
Associated thermal overload relays	3SR8-25 3SR8-36 3SR8-93											
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	
Electrical life (× 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 (× 10 ⁶ times)	10 10 10 10 8 8 8 8 6 6											
Matching fuse model	RT16-20 RT16-20 RT16-32 RT16-40 RT16-50 RT16-63 RT16-80 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 5 9 9											
Cabling cross section (CU)	Flexible cable with cold-pressed 2 socket (mm ²)	1/2.5	1/2.5	1/4	1/4	1.5/4	2.5/10	2.5/10	2.5/10	4/16	4/16	
	Flexible cable without cold-pressed 2 socket (mm ²)	1/4	1/4	1.5/6	1.5/6	2.5/10	2.5/16	2.5/16	2.5/16	4/25	4/25	
	Inflexible 2 cable (mm ²)	1/4	1.5/4	1.5/6	1.5/6	1.5/10	2.5/25	2.5/25	2.5/25	4/50	4/50	
Screw size	M3.5 M3.5 M3.5 M4 M4 M8 M8 M8 M10 M10											
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	Conforming to UL 94	V1										

Technical specifications for auxiliary contacts incorporated in the contactor 3SC8

- Standard: IEC 60947-5-1
- Number of auxiliary contacts: 2, 4
- Mounting type: Front, side
- Conventional heating current (A): 10
- Rated operational voltage Ue (V): Up to 690
- Rated insulation voltage Ui (V): 690
- Conventional thermal current Ith (A): 10
- Minimum switching capacity Imin (mA): 5
- Short circuit protection (A): gG fuse: 10 A
- Rated making capacity (A): 140

Technical specifications for time delay contact incorporated in the contactor 3SC8

- Standard: IEC 60255-5
- Number of contacts: 2
- Mounting type: Front
- Delay time type making time delay, breaking time delay
- Timing ranges: 0.1-3, 0.1-30, 10-180
- Repeat accuracy: ± 3 % (10 ms minimum)
- Reset time
- During time delay period (ms): 150
- After time delay period (ms): 50
- Conventional heating current (A): 10
- Rated operational voltage Ue (V): Up to 690
- Rated insulation voltage Ui (V): 250
- Conventional thermal current Ith (A): 10


Coil voltage of contactor 3SC8

Coil voltage Us (V)	12	20	24	32	36	42	48	60	100	110	115	120	127	208	220	230	240	265	380	400	415	440	480	500	550	600	550/600 600/660	660/690
50 Hz	J5	-	B5	C5	-	D5	E5	-	-	F5	FE5	Q5	FC5	LE5	M5	P5	U5	-	Q5	V5	N5	R5	T5	S5	SC5	X5	-	Y5
60 Hz	-	-	B6	-	-	-	E6	-	-	F6	-	-	-	-	M6	-	U6	-	Q6	-	-	R6	-	-	-	-	-	Y6
50/60 Hz	J7	Z7	B7	C7	CC7	D7	E7	EE7	K7	F7	FE7	-	FC7	-	M7	P7	U7	W7	Q7	V7	N7	R7	-	S7	-	-	X7	Y7

Technical specifications for coil incorporated in contactor 3SC8

Type		3SC8-09	3SC8-12	3SC8-18	3SC8-25	3SC8-32	3SC8-40	3SC8-50	3SC8-65	3SC8-80	3SC8-95	
Coil consumption	Pick-up (VA)	70	70	70	100	100	245	245	245	245	245	
	Holding (VA)	50 Hz, 60 Hz		9.0	9.0	9.0	10	10	30	30	30	30
		50/60 Hz		10	10	10	11	11	32	32	32	32
	Power (W)	2-3.5	2-3.5	2-3.5	3-4	3-4	6-10	6-10	6-10	6-10	6-10	

Selection and ordering data

Standard control circuit voltages (V AC)	Rated frequency (Hz)	Rated operational current in category AC-3 400 V (A)	Number of poles		Instantaneous auxiliary contacts		230 V 50/60 Hz Please contact us for other coil voltage		
			↓	↓	↓	↓	Type code	Order code	
	230	50/60	9	3	-	1	-	C8N 0910P7	27432
				3	-	-	1	C8N 0901P7	27431
				3	-	1	1	C8N 0911P7	27433
			12	4	-	-	-	C8N 09004P7	27451
				2	2	-	-	C8N 09008P7	27452
				3	-	1	-	C8N 1210P7	27435
				3	-	-	1	C8N 1201P7	27434
				3	-	1	1	C8N 1211P7	27436
			18	4	-	-	-	C8N 12004P7	27453
				2	2	-	-	C8N 12008P7	27454
				3	-	1	-	C8N 1810P7	27438
			25	3	-	-	1	C8N 1801P7	27437
3	-	1		1	C8N 1811P7	27439			
3	-	1		-	C8N 2510P7	27441			
32	3	-	-	1	C8N 2501P7	27440			
	3	-	1	1	C8N 2511P7	27442			
	4	-	-	-	C8N 25004P7	27455			
	2	2	-	-	C8N 25008P7	27456			
	3	-	1	-	C8N 3210P7	27444			
40	3	-	-	1	C8N 3201P7	27443			
	3	-	1	1	C8N 3211P7	27445			
	3	-	1	1	C8N 4011P7	27446			
50	4	-	-	-	C8N 40004P7	27457			
	2	2	-	-	C8N 40008P7	27458			
	3	-	1	1	C8N 5011P7	27447			
65	4	-	-	-	C8N 50004P7	27459			
	2	2	-	-	C8N 50008P7	27460			
	3	-	1	1	C8N 6511P7	27448			
80	4	-	-	-	C8N 65004P7	27461			
	2	2	-	-	C8N 65008P7	27462			
	3	-	1	1	C8N 8011P7	27449			
95	4	-	-	-	C8N 80004P7	27463			
	2	2	-	-	C8N 80008P7	27464			
	3	-	1	1	C8N 9511P7	27450			
	4	-	-	-	C8N 95004P7	27465			
	2	2	-	-	C8N 95008P7	27466			

Please contact us for other coil voltage and frequency listed in "coil voltage of contactor" on page 1-222

3SC8-DN reversing contactors




Rated operating current 400 V AC-3 (A)	Standard power ratings of 3 phase motors 50-60 Hz AC-3					Poles ↓	230 V 50 Hz Please contact us for other coil voltage	
	220 V (KW)	380 V (KW)	415 V (KW)	440 V (KW)	660 V (KW)		Type code	Order code
9	2.2	4	4	4	5.5	3	C8 DN9P5	15913
12	3	5.5	5.5	5.5	7.5	3	C8 DN12P5	15914
18	4	7.5	9	9	10	3	C8 DN18P5	15915
25	5.5	11	11	11	15	3	C8 DN25P5	15916
32	7.5	15	15	15	18.5	3	C8 DN32P5	15917
40	11	18.5	22	22	30	3	C8 DN40P5	15918
50	15	22	25	30	33	3	C8 DN50P5	15919
65	18.5	30	37	37	37	3	C8 DN65P5	15920
80	22	37	45	45	45	3	C8 DN80P5	15921
95	25	45	45	45	45	3	C8 DN95P5	15922

Please contact us for other coil voltage and frequency listed in "coil voltage of contactor" on page 1-222

Selection and ordering data

Coil for contactor 3SC8

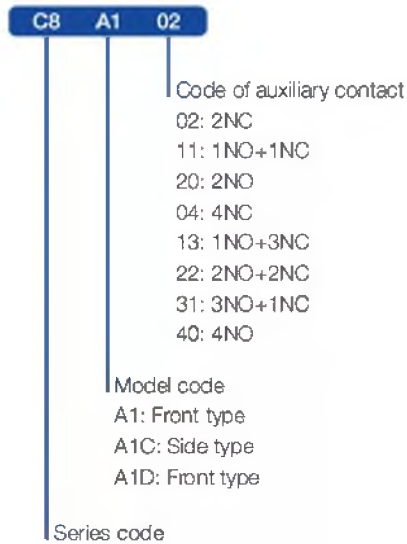


	Standard control circuit voltage (V AC)	Rated frequency (Hz)	Voltage code	Type code	Order code
3SC8X-D2 for AC contactor 3SC8-9...18	Suitable for contactors with auxiliary contact 1NO or 1NC				
	24	50/60	B7	C8X-D2B7	17359
	48	50/60	E7	C8X-D2E7	25323
	110	50/60	F7	C8X-D2F7	32043
	127	50/60	FC7	C8X-D2FC7	32046
	220	50/60	M7	C8X-D2M7	17362
	230	50/60	P7	C8X-D2P7	32049
	240	50/60	U7	C8X-D2U7	32052
	380	50/60	Q7	C8X-D2Q7	32055
	400	50/60	V7	C8X-D2V7	27278
	440	50/60	R7	C8X-D2R7	32058
	Suitable for contactors with auxiliary contact 1NO+1NC				
	24	50/60	B7	C8X-D2NB7	14101
	48	50/60	E7	C8X-D2NE7	14102
	110	50/60	F7	C8X-D2NF7	14103
	127	50/60	FC7	C8X-D2NFC7	14104
	220	50/60	M7	C8X-D2NM7	14105
	230	50/60	P7	C8X-D2NP7	14106
	240	50/60	U7	C8X-D2NU7	14107
	380	50/60	Q7	C8X-D2NQ7	14108
	400	50/60	V7	C8X-D2NV7	14109
	440	50/60	R7	C8X-D2NR7	14110
3SC8X-D4 for AC contactor 3SC8-25...32	Suitable for contactors with auxiliary contact 1NO or 1NC				
	24	50/60	B7	C8X-D4B7	17360
	48	50/60	E7	C8X-D4E7	25324
	110	50/60	F7	C8X-D4F7	32044
	127	50/60	FC7	C8X-D4FC7	32047
	220	50/60	M7	C8X-D4M7	17363
	230	50/60	P7	C8X-D4P7	32050
	240	50/60	U7	C8X-D4U7	32053
	380	50/60	Q7	C8X-D4Q7	32056
	400	50/60	V7	C8X-D4V7	27279
	440	50/60	R7	C8X-D4R7	32059
	Suitable for contactors with auxiliary contact 1NO+1NC				
	24	50/60	B7	C8X-D4NB7	14111
	48	50/60	E7	C8X-D4NE7	14112
	110	50/60	F7	C8X-D4NF7	14113
	127	50/60	FC7	C8X-D4NFC7	14114
	220	50/60	M7	C8X-D4NM7	14115
	230	50/60	P7	C8X-D4NP7	14116
	240	50/60	U7	C8X-D4NU7	14117
	380	50/60	Q7	C8X-D4NQ7	14118
	400	50/60	V7	C8X-D4NV7	14119
	440	50/60	R7	C8X-D4NR7	14120
3SC8X-D6 for AC contactor 3SC8-40...95	Suitable for contactors with auxiliary contact 1NO or 1NC				
	24	50/60	B7	C8X-D6B7	17361
	48	50/60	E7	C8X-D6E7	25325
	110	50/60	F7	C8X-D6F7	32045
	127	50/60	FC7	C8X-D6FC7	32048
	220	50/60	M7	C8X-D6M7	17364
	230	50/60	P7	C8X-D6P7	32051
	240	50/60	U7	C8X-D6U7	32054
	380	50/60	Q7	C8X-D6Q7	32057
	400	50/60	V7	C8X-D6V7	27280
	440	50/60	R7	C8X-D6R7	32060

Please contact us for other coil voltages

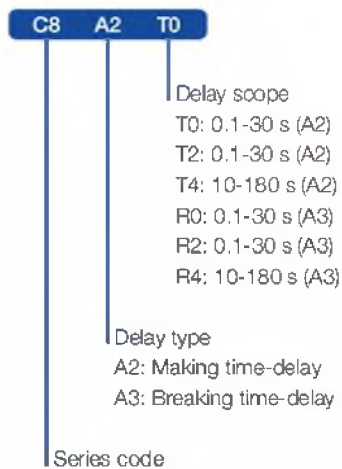
Auxiliary contact

■ Instruction of type code



Time-delay auxiliary contact

■ Instruction of type code




Derivative products of AC contactor

Selection and ordering data


Auxiliary contact blocks

Mounting type	Auxiliary contacts		Type code	Order code
	NO	NC		
 Front	0	2	C8 A1/02	29578
	1	1	C8 A1/11	29579
	2	0	C8 A1/20	29580
 Front	0	4	C8 A1/04	29581
	1	3	C8 A1/13	29582
	2	2	C8 A1/22	29583
	3	1	C8 A1/31	29584
	4	0	C8 A1/40	29585
 Front	1	0	C8 A1D/10	29587
	0	1	C8 A1D/01	29588
 Side	1	1	C8 A1C	29586

Time-delay auxiliary contact

Delay type	Auxiliary contacts		Delay scope	Type code	Order code
	NO	NC			
 making time-delay	1	1	0.1~3 s	C8 A2/T0	29589
			0.1~30 s	C8 A2/T2	29590
			10~180 s	C8 A2/T4	29591
breaking time-delay			0.1~3 s	C8 A3/R0	29592
			0.1~30 s	C8 A3/R2	29593
			10~180 s	C8 A3/R4	29594

Mechanical interlock

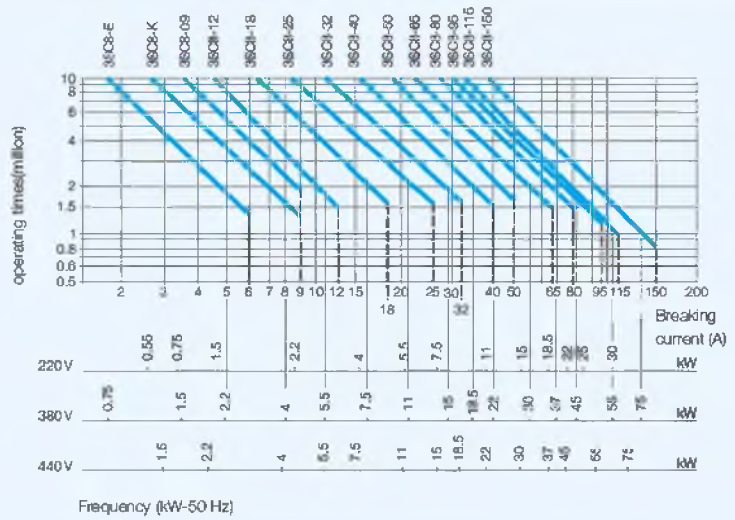
Matched contactor	Type code	Order code
 3SC8-09...32 3SC8-40...95	3SC8-A4X	29595
	3SC8-A4D	29596



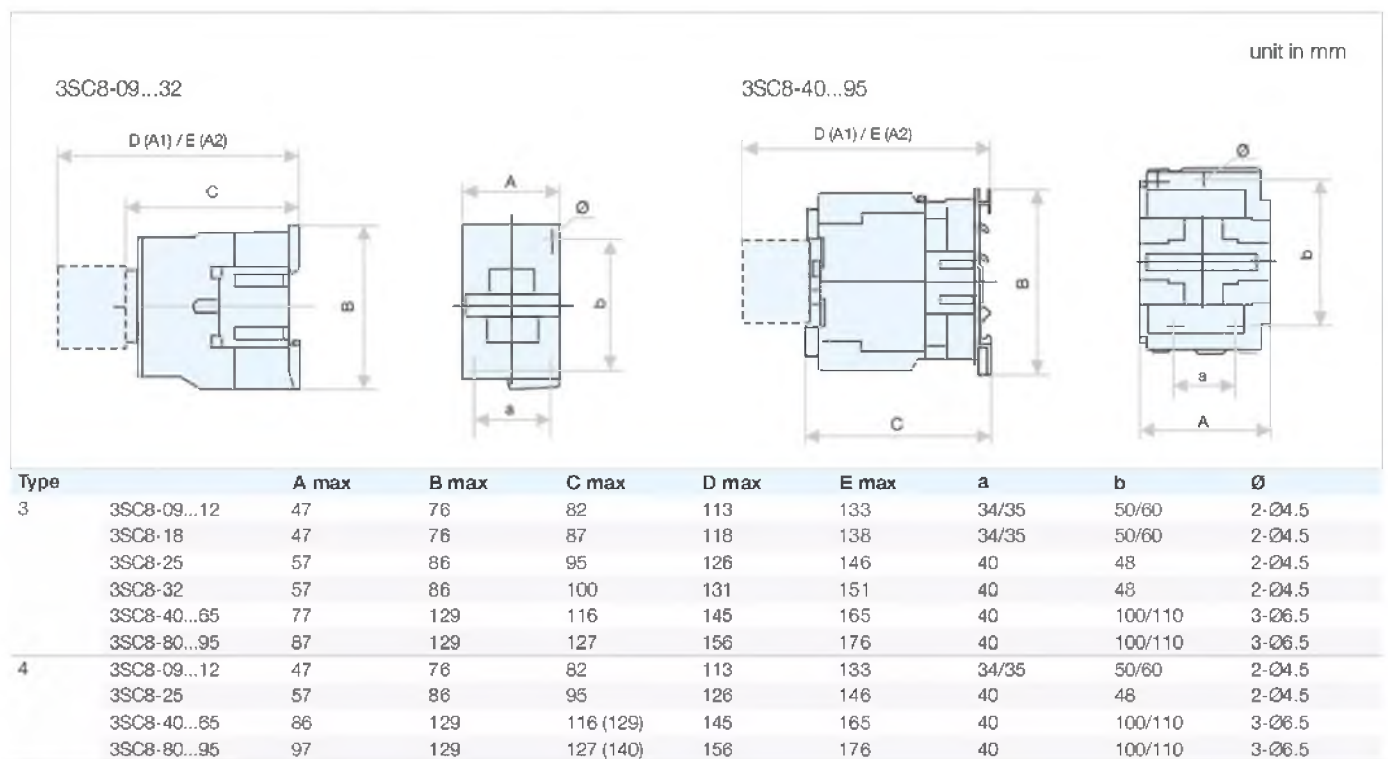
Electrical life curve for AC contactor 3SC8

For breaking control when AC-3 type work. ($U_e \leq 440$ V)
The breaking current is equal to rated making current.

Notes:
Asynchronous, P = 5.5 kW,
 $U_e = 400$ V, $I_e = 11$ A, $I_c = I_e = 11$ A
motor or asynchronous, P = 5.5 kW,
 $U_e = 415$ V, $I_e = 11$ A, $I_c = I_e = 11$ A
For 30 million electrical life.



Outline and installation dimensions



Notes: The dimensions in brackets are for D08 (4P) type

3SC8-K, mini contactors, up to 5.5 kW

Independent power supply with built-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by external power failure.

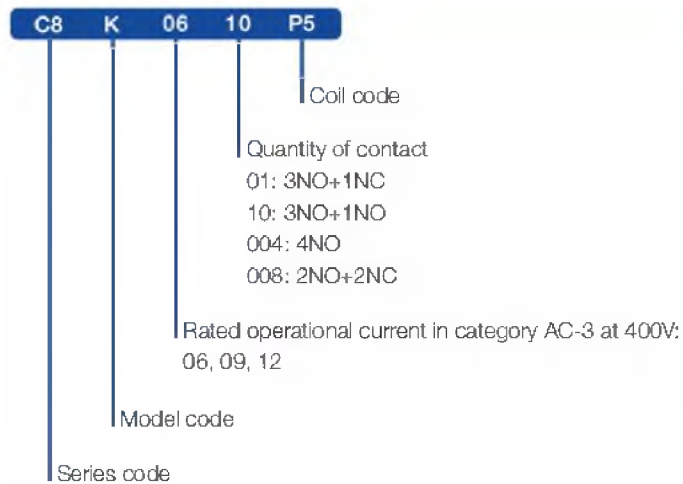
- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions For AC Contactor

- Used for controlling 3-phase motors and generally for controlling power circuits
- Used for many other applications such as isolation, capacitor switching and lighting

Instruction of type code

- For contactor



- For auxiliary contactor

C8 A1 / N02

Code of auxiliary contact

- N02: 2NC
- N11: 1NO+1NC
- N20: 2NO
- N04: 4NC
- N13: 1NO+3NC
- N22: 2NO+2NC
- N31: 3NO+1NC
- N40: 4NO

Model code

Series code

Technical specifications for type 3SC8-K

Type		3SC8-K0610, 3SC8-K0601, 3SC8-K0910, 3SC8-K0901, 3SC8-K1210, 3SC8-K1201, 3SC8-K06004, 3SC8-K06008 3SC8-K09004, 3SC8-K09008 3SC8-K12004, 3SC8-K12008		
Standard		IEC 60947-4-1		
Number of contacts		3NO+1NO, 3NO+1NC, 4NO, 2NO+2NC		
Rated conventional thermal current I _{th} (A)	AC-1	20		
Rated operational voltage U _e (V)		690		
Rated insulation voltage U _i (V)		690		
Rated impulse withstand voltage U _{imp} (kV)		6		
Rated frequency (Hz)		50/60		
Rated operational current (A)	AC-3 380/400 V	6	9	12
	AC-4 380/400 V	2.6	3.5	5
Number of poles		3,4	3,4	3,4
Rated operational power in category AC-3 (kW)	220/230/240 V	1.5	2.2	3
	380/400 V	2.2	4	5.5
	660/690 V	3	4	5.5
Rated making capacity (A)		110	110	114
Rated breaking capacity (A)	380 V	100	100	100
	690 V	70	70	70
Short-circuit protection (A)	gG fuse U ≤ 440 V	25		
Average impedance per pole (mΩ)		3		
Add-on auxiliary contact blocks	Front	3SC8-A1/KN		
	Side	-		
	Front time delay	-		
	Front dust and damp protected	-		
Reversing contactor type		3SC8-KN		
Associated thermal overload relays	3 Pins/5 Pins	3SR8-K		
Operation cycles(times/hour)	Electrical AC-3	1200		
	Electrical AC-4	300		
	Mechanical	3600		
Electrical life (× 10 ⁴ times)	AC-3	100	120	
	AC-4	20		
Mechanical life (× 10 ⁴ times)		1000		
Matching fuse model		RT16-16	RT16-20	
Tightening torque (N·m)		0.8		
Connection				
Screw clamp terminals	solid conductor (mm ²)	Max. 1×4+1×2.5		
	Flexible conductor without cable end (mm ²)	Max. 2×2.5		
	Flexible conductor with cable end (mm ²)	Max. 1×1.5+1×2.5		
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	Conforming to UL 94	V1		

Technical specifications for auxiliary contact incorporated in the contactor type 3SC8-K



- Standard: IEC 60947-5-1
- Number of auxiliary contact: 2, 4

- Mounting type: Front
- Conventional heating current (A): 10
- Rated operational voltage U_e (V): Up to 690
- Rated insulation voltage U_i (V): 690
- Conventional thermal current I_{th} (A): 10
- Minimum switching capacity I_m (mA): 5
- Short circuit protection (A): 10
- Rated making capacity (A): 110


Coil voltage of contactor 3SC8-K

Coil voltage U _s (V)	12	20	24	32	36	42	48	60	100	110	115	120	127	208	220	230	240	265	380	400	415	440	480	500	550	600	550/600 600/660	660/690
50 Hz	J5	-	B5	C5	-	D5	E5	-	-	F5	FE5	G5	FC5	LE5	M5	P5	U5	-	Q5	V5	N5	R5	T5	S5	SC5	X5	-	Y5
60 Hz	-	-	B6	-	-	E6	-	-	-	F6	-	-	-	-	M6	-	U6	-	Q6	-	-	R6	-	-	-	-	-	Y6
50/60 Hz	J7	Z7	B7	C7	CC7	D7	E7	EE7	K7	F7	FE7	-	FC7	-	M7	P7	U7	W7	Q7	V7	N7	R7	-	S7	-	-	X7	Y7

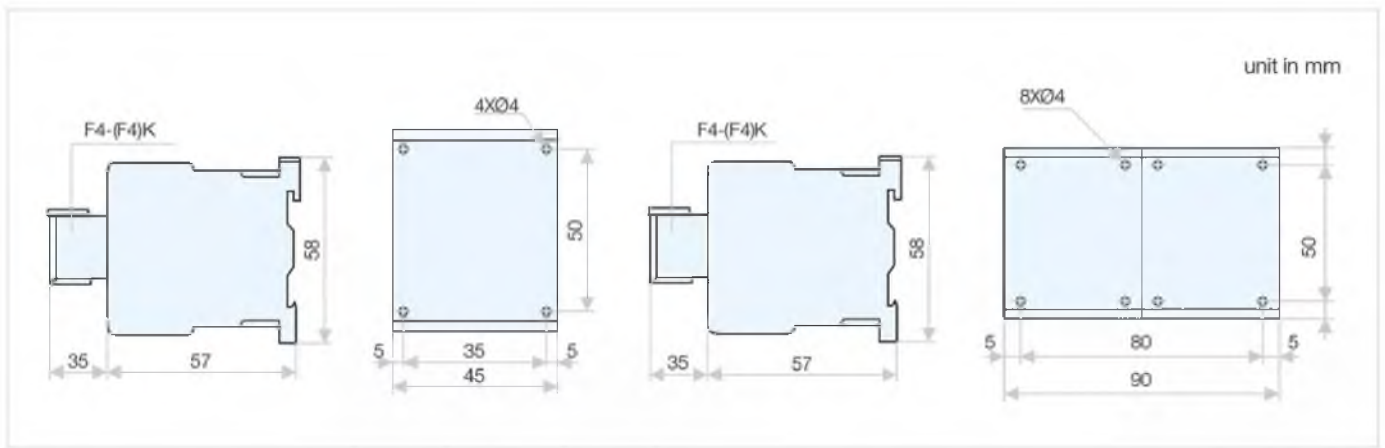
Selection and ordering data

	Rated operational current in category AC-3 400 V (A)	Number of poles		Instantaneous auxiliary contacts		230 V 50 Hz Please contact us for other coil voltage	
						Type code	Order code
3SC8-K contactor 	6	3	-	-	1	C8 K0601P5	11373
		3	-	1	-	C8 K0610P5	11374
	9	3	-	-	1	C8 K0901P5	11377
		3	-	1	-	C8 K0910P5	11378
	12	3	-	-	1	C8 K1201P5	11381
		3	-	1	-	C8 K1210P5	11382
	6	4	-	-	-	C8 K06004P5	11375
		2	2	-	-	C8 K06008P5	11376
	9	4	-	-	-	C8 K09004P5	11379
		2	2	-	-	C8 K09008P5	11380
	12	4	-	-	-	C8 K12004P5	11383
		2	2	-	-	C8 K12008P5	11384
3SC8-KN reversing contactors 	6	3	-	-	1	C8 KN0601P5	15576
		3	-	1	-	C8 KN0610P5	15697
		4	-	-	-	C8 KN06004P5	15703
	9	3	-	-	1	C8 KN0901P5	15577
		3	-	1	-	C8 KN0910P5	15698
		4	-	-	-	C8 KN09004P5	15704
	12	3	-	-	1	C8 KN1201P5	15578
		3	-	1	-	C8 KN1210P5	15699
		4	-	-	-	C8 KN12004P5	15705
		4	-	-	-	C8 KN12004P5	15705

3SC8-A1/KN

	Auxiliary contacts		Type code	Order code
	0	2	C8K A1/N02	33032
	1	1	C8K A1/N11	33033
	2	0	C8K A1/N20	33034
	0	4	C8K A1/N04	33035
	1	3	C8K A1/N13	33036
	2	2	C8K A1/N22	33037
	3	1	C8K A1/N31	33038
	4	0	C8K A1/N40	33039

Outline and installation dimensions



Applications and functions for AC contactor 3SC8

- Used for controlling 3-phase motors and generally for controlling power circuits.
- Used for many other applications such as isolation, capacitor switching and lighting.

Instruction of type code

C8	09	10	P7
			Coil code
			Quantity of contact
			10: 3 NO + 1 NO ($I_e \leq 32A$)
			01: 3 NO + 1 NC ($I_e \leq 32A$)
			11: 3 NO + 1 NO + 1 NC
			004: 4 NO (except $I_e = 18 A$ & $I_e = 32 A$)
			008: 2 NO + 2 NC (except $I_e = 18 A$ & $I_e = 32 A$)
			Rated working current in category AC-3 at 400 V AC (A):
			09, 12, 18, 25, 32, 40, 50, 65, 80, 95
			Series code

3SC19, contactors for capacitor switching

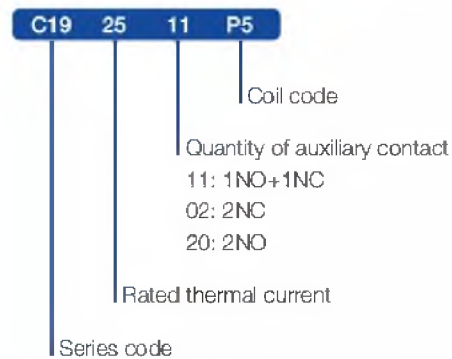
Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions

- Switching parallel connection capacitance from low voltage reactive power compensating equipments
- Reducing efficiently the impact to capacitor and restraining over-voltage when switching ON/OFF with special flow-cut equipment


Instruction of type code



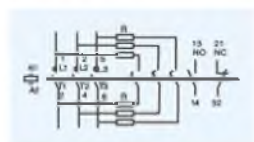
Technical specifications

Type		3SC19-25	3SC19-32	3SC19-43	3SC19-50	3SC19-63	3SC19-80	3SC19-95	3SC19-125
Rated insulating voltage Ui	V	690	690	690	690	690	690	690	690
Rated conventional thermal current Ith	A	25	32	43	50	63	80	95	125
Controllable power AC-6b	220/230 V	Kvar	6	8.5	10	12	15	22	25
	380/400 V	Kvar	12	16	20	25	30	37	50
	660/690 V	Kvar	12	16	20	25	30	37	50
Rated current of capacitor	400 V	A	17.3	23	29	36	43	53	65
Rated working current 1.3Ie	A	22.5	30	37.7	47	56	69	85	94
Restrained surge capacity		≤ 20 Ie	≤ 20 Ie	≤ 20 Ie	≤ 20 Ie	≤ 20 Ie	≤ 20 Ie	≤ 20 Ie	≤ 20 Ie
Coil consumed power	Starting	VA	70	100	100	245	245	245	245
	Holding	VA	9	10	10	30	30	30	30
Auxiliary contact type	2NO		√	√	√	-	-	-	-
	2NC		√	√	√	-	-	-	-
	1NO + 1NC		√	√	√	-	-	-	-
	2NO + 1NC		-	-	-	√	√	√	√
	1NO + 2NC		-	-	-	√	√	√	√
Mechanical life	10 ⁴	times	300	300	300	100	100	100	80
Electrical life	10 ⁴	times	10	10	10	6	6	6	6
Operating frequency		times/h	120	120	120	120	120	120	120
Pollution grade			3	3	3	3	3	3	3
Installation category			3	3	3	3	3	3	3
Installation type	screws		√	√	√	√	√	√	√
	35mm DIN-rail		√	√	√	√	√	√	√
	75mm DIN-rail		-	-	-	√	√	√	√
Ambient air temperature		°C	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40
Altitude	max.	meter	2000	2000	2000	2000	2000	2000	2000
Coil sectional area (mm ²)			4	6	10	10	16	25	35
Tightening torque (N·m)			1.7	2.0	2.5	5	5	9	9

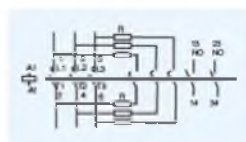
Selection and ordering data

	Rated conventional thermal current Ith (A)	Controllable power			Auxiliary contact		230 V AC 50Hz	
		220 V 230 V (KW)	380 V 400 V (KW)	660 V 690 V (KW)	1	2	Please contact us for other coil specifications	
					1	2	Type code	Order code
	25	6	12	12	1	1	C19 2511 P5	27308
					0	2	C19 2502 P5	27309
					2	0	C19 2520 P5	27310
	32	8.5	16	16	1	1	C19 3211 P5	27311
					0	2	C19 3202 P5	27312
					2	0	C19 3220 P5	27313
	43	10	20	20	1	1	C19 4311 P5	27314
					0	2	C19 4302 P5	27315
					2	0	C19 4320 P5	27316
	50	12	25	25	1	2	C19 5012 P5	27317
					2	1	C19 5021 P5	27318
	63	15	30	30	1	2	C19 6312 P5	27319
				2	1	C19 6321 P5	27320	
80	22	37	37	1	2	C19 8012P5	27321	
				2	1	C19 8021P5	27322	
95	23	45	45	1	2	C19 9512 P5	25496	
				2	1	C19 9521 P5	25686	
125	25	50	50	1	2	C19 12512 P5	27323	
				2	1	C19 12521 P5	27324	

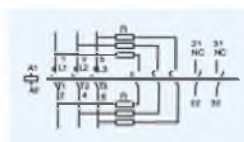
Terminal and electric diagram



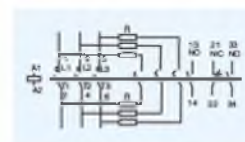
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3SC19-3211
3SC19-4311



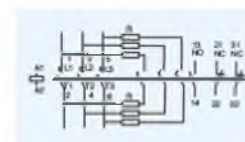
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3SC19-2502
3SC19-3202
3SC19-4302



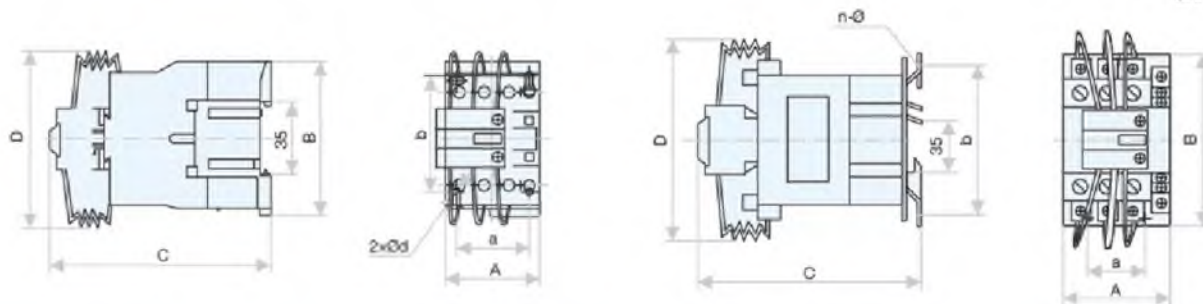
3SC19-5021
3SC19-6321
3SC19-8021
3SC19-9521
3SC19-12521



3SC19-5012
3SC19-6312
3SC19-8012
3SC19-9512
3SC19-12512

Outline and installation dimensions

unit in mm



Type	Outline dimensions				Installation dimensions		
	A	B	C	D	a	b	C
3SC19-25	47	76	124	100	34/35	50/60	2-Ø4.5
3SC19-32	57	86	132	110	40	50/60	2-Ø4.5
3SC19-43	57	86	136	110	40	50/60	2-Ø4.5
3SC19-50	77	129	152	155	40	100/110	3-Ø6.5
3SC19-63	77	129	152	155	40	100/110	3-Ø6.5
3SC19-80	77	129	152	155	40	100/110	3-Ø6.5
3SC19-95	87	129	162	165	40	100/110	3-Ø6.5
3SC19-125	87	129	162	165	40	100/110	3-Ø6.5

PC61F, contactors, up to 400 kW

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions For AC Contactor PC61F

- Used for controlling 3-phase motors and generally for controlling power circuits
- Used for many other applications such as isolation, capacitor switching and lighting

Technical specifications for contactor PC61F

Model	PC61F-115	PC61F-150	PC61F-185	PC61F-225	PC61F-265	PC61F-330	PC61F-400	PC61F-500	PC61F-630	PC61F-780	
Standard	IEC 60947-4-1										
Number of poles	3, 4	3, 4	3, 4	3, 4	3	3	3, 4	3, 4	3, 4	3, 4	
Rated operational current I _e (A)	In AC-3	115	150	185	225	265	330	400	500	630	780
	In AC-1	200	250	275	315	350	400	500	700	1000	1600
Rated operational voltage U _e (V)	Up to 1000										
Frequency limits of the operational current (time/h)	16-200										
Rated conventional thermal current I _{th} (A)	200	250	275	315	350	400	500	700	1000	1600	
Rated insulation voltage U _i (V)	1000										
Rated impulse withstand voltage U _{imp} (kV)	8										
Rated frequency (Hz)	50/60										
Rated making capacity (A)	10 x In AC-3 or 12 x In AC-4										
Rated breaking capacity (A)	8 x In AC-3 or 10 x In AC-4										
Rated operational power in category AC-3 (kW)	400 V	30	40	55	68	75	100	129	147	200	220
	220/230/240 V	30	40	55	68	75	100	129	147	200	220
	380/400 V	55	75	90	100	132	160	200	250	335	400
Short-circuit protection by fuse (A)	660/690 V	80	100	120	129	180	220	280	355	450	475
	Motor circuit (type aM)	125	160	200	250	315	400	400	500	630	-
	With thermal overload relay (type gG)	200	200	315	315	500	500	630	800	800	-
gG fuses	200	250	315	315	400	500	500	800	1000	-	
Average impedance per pole (mΩ)	0.37	0.35	0.33	0.32	0.3	0.28	0.26	0.18	0.12	0.1	
Add-on auxiliary contact blocks	Front	identical to those used on PC61 contactors									
	Side	-									
	Front time delay	identical to those used on PC61 contactors									
	Front dust and damp protected	-									
Reversing contactor type	PC61FN										
Associated thermal overload relays	PTR61F-53					PTR61F-73					
Operation cycles (times/hour)	In AC-3										
Electrical life (X 10 ³ times)	1200	1200	600	600	600	600	600	600	600	600	
Mechanical life (X 10 ⁶ times)	1.2	1.2	1	1	0.8	0.8	0.8	0.8	0.8	0.8	
Matching fuse model	10	10	6	6	6	6	6	6	6	6	
Tightening torque (N·m) Connection	RT16-1	RT16-1	RT16-2	RT16-2	RT16-2	RT16-3	RT16-3	RT16-4	RT16-4	RT16-4	
Cabling cross section CU (mm ²)	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	4	4	
Screw size	95	120	150	185	240	240	240	2 x 150	2 x 240	240	300
Degree of protection	M6	M8	M8	M10	M10	M10	M10	M10	M12	M12	M4
Ambient air temperature (°C)	IP20										
Storage temperature (°C)	-5 to +40, max. 95 % humidity										
Maximum operating altitude (meters)	-40 ~ +70										
Flame resistance	2000										
	Conforming to UL 94	V1									

Selection and ordering data

AC contactors PC61F

	Rated operational power			Rated operational current AC-3 380/400 V (A)	Rated control circuit voltage V 50 Hz	Type code
	AC-3 220/230 V (kW)	380/400 V (kW)	660/690 V (kW)			
  PC61F, 3-pole, 55 to 400 kW	30	55	59	115	24	PC61F-115-3-B5
					110	PC61F-115-3-F5
					230	PC61F-115-3-P5
	40	75	80	150	24	PC61F-150-3-B5
					110	PC61F-150-3-F5
					230	PC61F-150-3-P5
	55	90	100	185	24	PC61F-185-3-B5
					110	PC61F-185-3-F5
					230	PC61F-185-3-P5
	63	110	110	225	24	PC61F-225-3-B5
					110	PC61F-225-3-F5
					230	PC61F-225-3-P5
	75	132	140	265	24	PC61F-265-3-B5
					110	PC61F-265-3-F5
					230	PC61F-265-3-P5
	100	165	180	330	24	PC61F-330-3-B5
					110	PC61F-330-3-F5
					230	PC61F-330-3-P5
115	200	220	400	24	PC61F-400-3-B5	
				110	PC61F-400-3-F5	
				230	PC61F-400-3-P5	
147	250	280	500	24	PC61F-500-3-B5	
				110	PC61F-500-3-F5	
				230	PC61F-500-3-P5	
200	335	375	630	24	PC61F-630-3-B5	
				110	PC61F-630-3-F5	
				230	PC61F-630-3-P5	
200	400	425	780	24	PC61F-780-3-B5	
				110	PC61F-780-3-F5	
				230	PC61F-780-3-P5	
 PC61F, 4-pole, 55 to 400 kW	30	55	59	115	24	PC61F-115-4-B5
					110	PC61F-115-4-F5
					230	PC61F-115-4-P5
	40	75	80	150	24	PC61F-150-4-B5
					110	PC61F-150-4-F5
					230	PC61F-150-4-P5
	55	90	100	185	24	PC61F-185-4-B5
					110	PC61F-185-4-F5
					230	PC61F-185-4-P5
	63	110	110	225	24	PC61F-225-4-B5
					110	PC61F-225-4-F5
					230	PC61F-225-4-P5
	75	132	140	265	24	PC61F-265-4-B5
					110	PC61F-265-4-F5
					230	PC61F-265-4-P5
	100	165	180	330	24	PC61F-330-4-B5
					110	PC61F-330-4-F5
					230	PC61F-330-4-P5
115	200	220	400	24	PC61F-400-4-B5	
				110	PC61F-400-4-F5	
				230	PC61F-400-4-P5	
147	250	280	500	24	PC61F-500-4-B5	
				110	PC61F-500-4-F5	
				230	PC61F-500-4-P5	
200	335	375	630	24	PC61F-630-4-B5	
				110	PC61F-630-4-F5	
				230	PC61F-630-4-P5	
200	400	425	780	24	PC61F-780-4-B5	
				110	PC61F-780-4-F5	
				230	PC61F-780-4-P5	

Selection and ordering data

Reversing contactors PC61FN

	Rated operational power			Rated operational current AC-3 380/400 V (A)	Rated control circuit voltage V 50 Hz	Type code
	AC-3 220/230 V (kW)	380/400 V (kW)	660/690 V (kW)			
 <p>3-pole, 55 to 400 kW</p>	30	55	59	115	24	PC61FN-115-3-B5
					110	PC61FN-115-3-F5
					230	PC61FN-115-3-P5
	40	75	80	150	24	PC61FN-150-3-B5
					110	PC61FN-150-3-F5
					230	PC61FN-150-3-P5
	55	90	100	185	24	PC61FN-185-3-B5
					110	PC61FN-185-3-F5
					230	PC61FN-185-3-P5
	63	110	110	225	24	PC61FN-225-3-B5
					110	PC61FN-225-3-F5
					230	PC61FN-225-3-P5
	75	132	140	265	24	PC61FN-265-3-B5
					110	PC61FN-265-3-F5
					230	PC61FN-265-3-P5
	100	165	180	330	24	PC61FN-330-3-B5
					110	PC61FN-330-3-F5
					230	PC61FN-330-3-P5
	115	200	220	400	24	PC61FN-400-3-B5
					110	PC61FN-400-3-F5
230					PC61FN-400-3-P5	
147	250	280	500	24	PC61FN-500-3-B5	
				110	PC61FN-500-3-F5	
				230	PC61FN-500-3-P5	
200	335	375	630	24	PC61FN-630-3-B5	
				110	PC61FN-630-3-F5	
				230	PC61FN-630-3-P5	
200	400	425	780	24	PC61FN-780-3-B5	
				110	PC61FN-780-3-F5	
				230	PC61FN-780-3-P5	
 <p>4-pole, 55 to 400 kW</p>	30	55	59	115	24	PC61FN-115-4-B5
					110	PC61FN-115-4-F5
					230	PC61FN-115-4-P5
	40	75	80	150	24	PC61FN-150-4-B5
					110	PC61FN-150-4-F5
					230	PC61FN-150-4-P5
	55	90	100	185	24	PC61FN-185-4-B5
					110	PC61FN-185-4-F5
					230	PC61FN-185-4-P5
	63	110	110	225	24	PC61FN-225-4-B5
					110	PC61FN-225-4-F5
					230	PC61FN-225-4-P5
	75	132	140	265	24	PC61FN-265-4-B5
					110	PC61FN-265-4-F5
					230	PC61FN-265-4-P5
	100	165	180	330	24	PC61FN-330-4-B5
					110	PC61FN-330-4-F5
					230	PC61FN-330-4-P5
	115	200	220	400	24	PC61FN-400-4-B5
					110	PC61FN-400-4-F5
230					PC61FN-400-4-P5	
147	250	280	500	24	PC61FN-500-4-B5	
				110	PC61FN-500-4-F5	
				230	PC61FN-500-4-P5	
200	335	375	630	24	PC61FN-630-4-B5	
				110	PC61FN-630-4-F5	
				230	PC61FN-630-4-P5	
200	400	425	780	24	PC61FN-780-4-B5	
				110	PC61FN-780-4-F5	
				230	PC61FN-780-4-P5	

PC61K, mini contactors, up to 5.5 kW

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions For AC Contactor

- Used for controlling 3-phase motors and generally for controlling power circuits
- Used for many other applications such as isolation, capacitor switching and lighting

Technical specifications

Type		PC61K-0610, PC61K-0601, PC61K-06004, PC61K-06008	PC61K-0910, PC61K-0901, PC61K-09004, PC61K-09008	PC61K-1210, PC61K-1201, PC61K-12004, PC61K-12008
Standard		IEC 60947-4-1		
Number of contacts		3NO+1NO, 3NO+1NC, 4NO, 2NO+2NC		
Rated conventional thermal current Ith (A)	AC-1	20		
Rated operational voltage Ue (V)		690		
Rated insulation voltage Ui (V)		690		
Rated impulse withstand voltage Uimp (kV)		6		
Rated frequency (Hz)		50/60		
Rated operational current (A)	AC-3 380/400 V	6	9	12
	AC-4 380/400 V	2,6	3,5	5
Number of poles		3,4	3,4	3,4
Rated operational power in category AC-3 (kW)	220/230/240 V	1,5	2,2	3
	380/400 V	2,2	4	5,5
	660/690 V	3	4	5,5
Rated making capacity (A)		110	110	114
Rated breaking capacity (A)	380 V	100	100	100
	690 V	70	70	70
Short-circuit protection (A)	gG fuse U ≤ 440 V	25		
Average impedance per pole (mΩ)		3		
Add-on auxiliary contact blocks	Front	PC61K-A1		
	Side	-		
	Front time delay	-		
	Front dust and damp protected	-		
Reversing contactor type		PC61KN		
Associated thermal overload relays	3 Pins/5 Pins	PTR61K		
Operation cycles(times/hour)	Electrical AC-3	1200		
	Electrical AC-4	300		
	Mechanical	3600		
Electrical life (X 10 ⁴ times)	AC-3	100	120	
	AC-4	20		
Mechanical life (X 10 ⁴ times)		1000		
Matching fuse model		RT16-16	RT16-20	
Tightening torque (N·m)		0.8		
Connection				
Screw clamp terminals	solid conductor (mm ²)	Max. 1x4+1x2,5		
	Flexible conductor without cable end (mm ²)	Max. 2x2,5		
	Flexible conductor with cable end (mm ²)	Max. 1X1,5+1X2,5		
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	Conforming to UL 94	V1		

Technical specifications for auxiliary contact incorporated in the contactor type PC61K

- Standard: IEC 60947-5-1
- Number of auxiliary contact: 2, 4
- Mounting type: Front
- Conventional heating current (A): 10
- Rated operational voltage Ue (V): Up to 690
- Rated insulation voltage Ui (V): 690
- Conventional thermal current Ith (A): 10
- Minimum switching capacity Im (mA): 5
- Short circuit protection (A): 10
- Rated making capacity (A): 110

Coil voltage of contactor PC61K

Coil voltage Us (V)	12	20	24	32	36	42	48	60	100	110	115	120	127	208	220	230	240	265	380	400	415	440	480	500	550	600	550/600 600/660	660/690
50 Hz	J5	-	B5	C5	-	D5	E5	-	-	F5	FE5	G5	FC5	LE5	M5	P5	U5	-	Q5	V5	N5	R5	T5	S5	SC5	X5	-	Y5
60 Hz	-	-	B6	-	-	-	E6	-	-	F6	-	-	-	-	M6	-	U6	-	Q6	-	-	R6	-	-	-	-	-	Y6
50/60 Hz	J7	Z7	B7	C7	CC7	D7	E7	EE7	K7	F7	FE7	-	FC7	-	M7	P7	U7	W7	Q7	V7	N7	R7	-	S7	-	-	X7	Y7

Selection and ordering data

Mini contactors PC61K, 3-pole, 2.2 to 5.5 kW








Rated operational power			Rated operational current AC-3 380/400 V (A)	Main contact		Rated control circuit voltage V 50 Hz	Auxiliary contact		Type code
380/400 V (kW)	380/400 V (kW)	660/690 V (kW)		1	2		1	2	
1.5	2.2	3	6	3	0	24	1	0	PC61K-0610-B5
							0	1	PC61K-0601-B5
							1	0	PC61K-0610-F5
							0	1	PC61K-0601-F5
							1	0	PC61K-0610-P5
							0	1	PC61K-0601-P5
2.2	4	4	9	3	0	24	1	0	PC61K-0910-B5
							0	1	PC61K-0901-B5
							1	0	PC61K-0910-F5
							0	1	PC61K-0901-F5
							1	0	PC61K-0910-P5
							0	1	PC61K-0901-P5
3	5.5	5.5	12	3	0	24	1	0	PC61K-1210-B5
							0	1	PC61K-1201-B5
							1	0	PC61K-1210-F5
							0	1	PC61K-1201-F5
							1	0	PC61K-1210-P5
							0	1	PC61K-1201-P5

Selection and ordering data





Mini contactors PC61K, 4-pole, 2.2 to 5.5 kW

Rated operational power			Rated operational current AC-3 380/400 V (A)	Main contact		Rated control circuit voltage V 50 Hz	Auxiliary contact		Type code							
220/230 V (kW)	380/400 V (kW)	660/690 V (kW)		1	2		1	2								
1.5	2.2	3	6	4	0	24	0	0	PC61K-06004-B5							
							0	0	PC61K-06004-F5							
							0	0	PC61K-06004-P5							
				2	2	24	0	0	PC61K-06008-B5							
							0	0	PC61K-06008-F5							
							0	0	PC61K-06008-P5							
							2.2	4	4	9	4	0	24	0	0	PC61K-09004-B5
														0	0	PC61K-09004-F5
														0	0	PC61K-09004-P5
2	2	24	0	0	PC61K-09008-B5											
			0	0	PC61K-09008-F5											
			0	0	PC61K-09008-P5											
			3	5.5	5.5	12	4	0	24	0	0	PC61K-12004-B5				
										0	0	PC61K-12004-F5				
										0	0	PC61K-12004-P5				
2	2	24	0	0	PC61K-12008-B5											
			0	0	PC61K-12008-F5											
			0	0	PC61K-12008-P5											

Mini reversing contactors PC61KN, 3-pole, 2.2 to 5.5 kW

Rated operational power	Rated operational power			Rated operational current AC-3 380/400 V (A)	Main contact		Rated control circuit voltage V 50 Hz	Auxiliary contact		Type code				
	380/400 V (kW)	380/400 V (kW)	660/690 V (kW)											
	1.5	2.2	3											
	AC-3			6	3	0	24	1	0	PC61KN-0610-B5				
								0	1	PC61KN-0601-B5				
								110	1	0	PC61KN-0610-F5			
								0	1	PC61KN-0601-F5				
								230	1	0	PC61KN-0610-P5			
								0	1	PC61KN-0601-P5				
	2.2							9	3	0	24	1	0	PC61KN-0910-B5
												0	1	PC61KN-0901-B5
												110	1	0
			0	1	PC61KN-0901-F5									
			230	1	0	PC61KN-0910-P5								
			0	1	PC61KN-0901-P5									
3			12	3	0	24	1					0	PC61KN-1210-B5	
							0					1	PC61KN-1201-B5	
							110					1	0	PC61KN-1210-F5
							0	1	PC61KN-1201-F5					
							230	1	0	PC61KN-1210-P5				
							0	1	PC61KN-1201-P5					



Mini reversing contactors PC61KN, 4-pole, 2.2 to 5.5 kW

Rated operational power	Rated operational power			Rated operational current AC-3 380/400 V (A)	Main contact		Rated control circuit voltage V 50 Hz	Auxiliary contact		Type code									
	220/230 V (kW)	380/400 V (kW)	660/690 V (kW)																
	1.5	2.2	3																
	AC-3			6	4	0	24	0	0	PC61KN-06004-B5									
								110	0	0	PC61KN-06004-F5								
								230	0	0	PC61KN-06004-P5								
	2.2							9	4	0	24	0	0	PC61KN-09004-B5					
												110	0	0	PC61KN-09004-F5				
												230	0	0	PC61KN-09004-P5				
	3											12	4	0	24	0	0	PC61KN-12004-B5	
																110	0	0	PC61KN-12004-F5
																230	0	0	PC61KN-12004-P5

Selection and ordering data

Front-mounted instantaneous auxiliary contact blocks

For contactors

Auxiliary contacts	Auxiliary contacts		Type code
			
0	2	PC61KA1-02	
1	1	PC61KA1-11	
2	0	PC61KA1-20	
0	4	PC61KA1-04	
1	3	PC61KA1-13	
2	2	PC61KA1-22	
3	1	PC61KA1-31	
4	0	PC61KA1-40	

Outline and installation dimensions








PC61FN

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Selection And Ordering Data

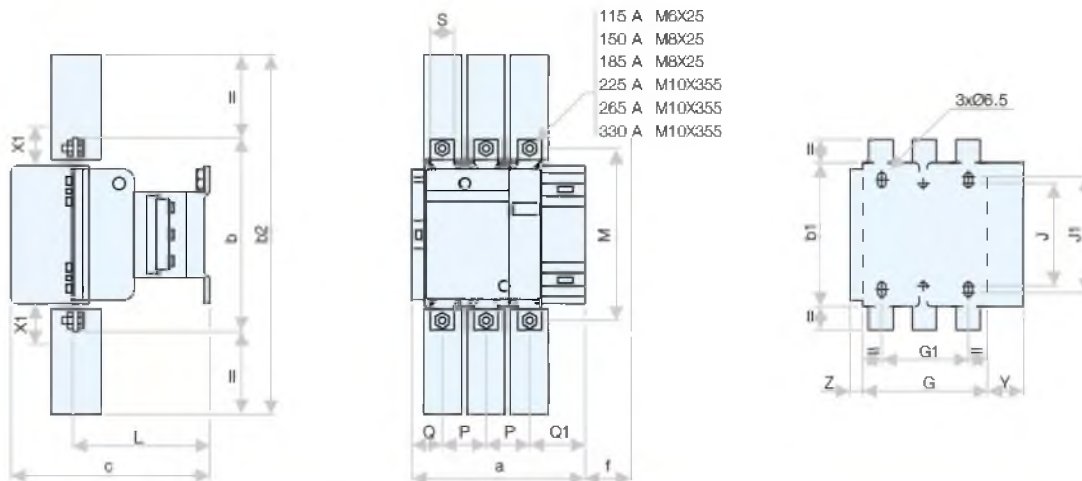
Coils

	Size	For cotactors	Rated control circuit voltage V 50 Hz	Type code
	FF	PC61F 115 ... 150	24	PC61F-FF-B5
			110	PC61F-FF-F5
			230	PC61F-FF-P5
	FG	PC61F 185 ... 225	24	PC61F-FG-B5
			110	PC61F-FG-F5
			230	PC61F-FG-P5
	FH	PC61F 265 ... 330	24	PC61F-FH-B5
			110	PC61F-FH-F5
			230	PC61F-FH-P5
	FJ	PC61F 400	24	PC61F-FJ-B5
			110	PC61F-FJ-F5
			230	PC61F-FJ-P5
	FK	PC61F 500	24	PC61F-FK-B5
			110	PC61F-FK-F5
			230	PC61F-FK-P5
	FL	PC61F 630	24	PC61F-FL-B5
			110	PC61F-FL-F5
			230	PC61F-FL-P5
	FX	PC61F 780	24	PC61F-FX-B5
			110	PC61F-FX-F5
			230	PC61F-FX-P5

Outline and installation dimensions

unit in mm

PC61F-115...330

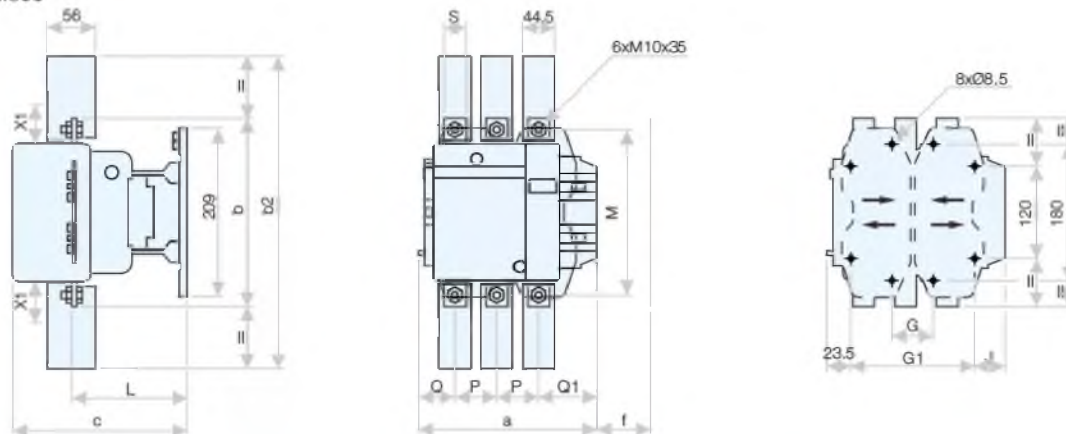


PC61F		a	b	b1	b2	c	f	G	G1	J	J1	L	M	P	Q	Q1	S	Y	Z	
115	3P	163.5	162	137	265	171	131	106	80	106	120	107	147	37	29.5	60	20	26	44	13.5
	4P	200.5	162	137	265	171	131	143	80	106	120	107	147	37	29.5	60	20	26	44	13.5
150	3P	163.5	170	137	301	171	131	106	80	106	120	107	150	40	26	57.5	20	34	44	13.5
	4P	200.5	170	137	301	171	131	143	80	106	120	107	150	40	26	55.5	20	34	44	13.5
185	3P	168.5	174	137	305	181	130	111	80	106	120	113.5	154	40	29	59.5	20	34	44	13.5
	4P	208.5	174	137	305	181	130	151	80	106	120	113.5	154	40	29	59.5	20	34	44	13.5
225	3P	168.5	197	137	364	181	130	111	80	106	120	113.5	172	48	21	51.5	25	44.5	44	13.5
	4P	208.5	197	137	364	181	130	151	80	106	120	113.5	172	48	17	47.5	25	44.5	44	13.5
265	3P	201.5	203	145	375	213	147	142	96	106	120	141	178	48	39	66.5	25	44.5	38	21.5
	4P	244.5	203	145	375	213	147	190	96	106	120	141	178	48	34	66.5	25	44.5	38	21.5
330	3P	213	206	145	375	219	147	154.5	96	106	120	145	181	48	43	74	25	44.5	38	20.5
	4P	261	206	145	375	219	147	202.5	96	106	120	145	181	48	43	74	25	44.5	38	20.5

f = minimum distance required for coil removal

unit in mm

PC61F-400...500

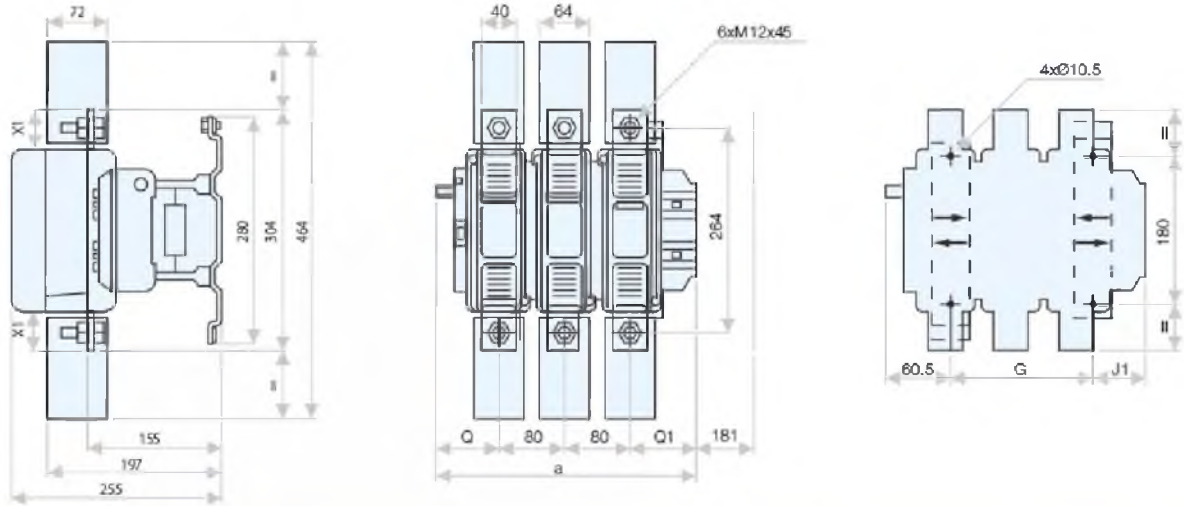


PC61F		a	b	b2	c	f	G*	G min.	G max.	G1*	G1 min.	G1 max.	J	L	M	P	Q	Q1	S
400	2P	213	206	375	219	119	80	66	102	170	156	192	19.5	145	181	48	69	96	25
	3P	213	206	375	219	119	80	66	102	170	156	192	19.5	145	181	48	43	74	25
	4P	261	206	375	219	119	80	66	150	170	156	240	67.5	145	181	48	43	74	25
500	2P	233	238	400	232	141	80	66	120	170	156	210	39.5	146	208	55	76	102	30
	3P	233	238	400	232	141	80	66	120	170	156	210	39.5	146	208	55	46	77	30
	4P	288	288	400	232	141	140	66	175	230	156	265	34.5	146	208	55	46	77	30

Outline and installation dimensions

unit in mm

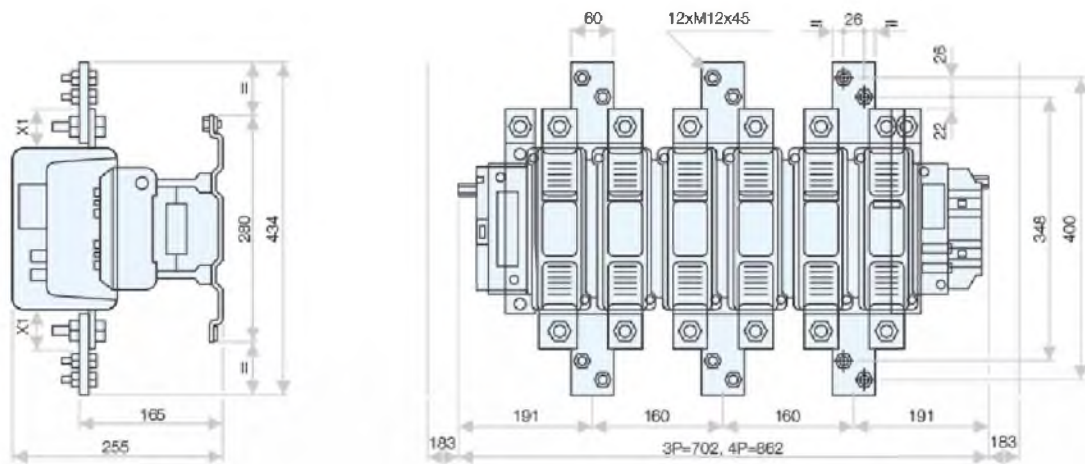
PC61F-630...800



PC61F		a	G	G min.	G max.	J1	Q	Q1
630, 800	3P	309	180	100	195	68.5	60	89
630	4P	309	240	150	275	68.5	60	89

PC61F-780

unit in mm



PC61C, contactors for capacitor switching

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure



Applications And Functions

- Switching parallel connection capacitance from low voltage reactive power compensating equipments
- Reducing efficiently the impact to capacitor and restraining over-voltage when switching ON/OFF with special flow-cut equipment

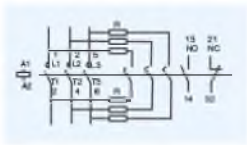
Technical specifications

Type		PC61C-25	PC61C-32	PC61C-43	PC61C-50	PC61C-63	PC61C-80	PC61C-95	PC61C-125	
Rated insulating voltage Ui	V	690	690	690	690	690	690	690	690	
Rated conventional thermal current Ith	A	25	32	43	50	63	80	95	125	
Controllable power AC-6b	220/230 V	Kvar	6	8,5	10	12	15	22	23	25
	380/400 V	Kvar	12	16	20	25	30	37	45	50
	660/690 V	Kvar	12	16	20	25	30	37	45	50
Rated current of capacitor	400 V	A	17.3	23	29	36	43	53	65	72
Rated working current I.3le	A	22.5	30	37.7	47	56	69	85	94	
Restrained surge capacity		≤ 20 le	≤ 20 le	≤ 20 le	≤ 20 le	≤ 20 le	≤ 20 le	≤ 20 le	≤ 20 le	
Coil consumed power	Starting	VA	70	100	100	245	245	245	245	
	Holding	VA	9	10	10	30	30	30	30	
Auxiliary contact type	2NO	√	√	√	-	-	-	-	-	
	2NC	√	√	√	-	-	-	-	-	
	1NO + 1NC	√	√	√	-	-	-	-	-	
	2NO + 1NC	-	-	-	√	√	√	√	√	
	1NO + 2NC	-	-	-	√	√	√	√	√	
Mechanical life	10 ⁴	times	300	300	300	100	100	100	80	80
Electrical life	10 ⁴	times	10	10	10	6	6	6	6	6
Operating frequency		times/h	120	120	120	120	120	120	120	
Pollution grade			3	3	3	3	3	3	3	
Installation category			3	3	3	3	3	3	3	
Installation type	screws	√	√	√	√	√	√	√	√	
	35mm DIN-rail	√	√	√	√	√	√	√	√	
	75mm DIN-rail	-	-	-	-	√	√	√	√	
Ambient air temperature	°C	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	
Altitude	max. meter	2000	2000	2000	2000	2000	2000	2000	2000	
Coil sectional area (mm ²)		4	6	10	10	16	25	35	50	
Tightening torque (N·m)		1.7	2.0	2.5	5	5	5	9	9	

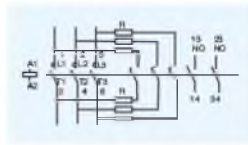
Selection and ordering data

Rated operational power			Rated conventional thermal current (A)	Rated control circuit voltage V 50 Hz	Auxiliary contact		Type code										
AC-6b at 220/230 V (kvar)	at 380/400 V (kvar)	at 660/690 V (kvar)															
6	12	12	25	24	2	0	PC61C-2520-B5										
						1	1	PC61C-2511-B5									
						0	2	PC61C-2502-B5									
					110	2	0	2	1	1	0	PC61C-2520-F5					
											1	1	PC61C-2511-F5				
											0	2	PC61C-2502-F5				
					230	2	0	2	1	1	0	PC61C-2520-P5					
											1	1	PC61C-2511-P5				
											0	2	PC61C-2502-P5				
					8.5	16	16	32	24	2	0	PC61C-3220-B5					
											1	1	PC61C-3211-B5				
											0	2	PC61C-3202-B5				
110	2	0	2	1						1	0	PC61C-3220-F5					
											1	1	PC61C-3211-F5				
											0	2	PC61C-3202-F5				
230	2	0	2	1						1	0	PC61C-3220-P5					
											1	1	PC61C-3211-P5				
											0	2	PC61C-3202-P5				
10	20	20	40	24						2	0	PC61C-4320-B5					
											1	1	PC61C-4311-B5				
											0	2	PC61C-4302-B5				
					110	2	0	2	1	1	0	PC61C-4320-F5					
											1	1	PC61C-4311-F5				
											0	2	PC61C-4302-F5				
					230	2	0	2	1	1	0	PC61C-4320-P5					
											1	1	PC61C-4311-P5				
											0	2	PC61C-4302-P5				
					12	25	25	50	24	1	2	PC61C-5012-B5					
											2	1	PC61C-5021-B5				
										110	1	2	2	1	2	1	PC61C-5012-F5
2	1	PC61C-5021-F5															
230	1	2	2	1						2	1	PC61C-5012-P5					
											2	1	PC61C-5021-P5				
15	30	30	65	24						1	2	PC61C-6312-B5					
											2	1	PC61C-6321-B5				
										110	1	2	2	1	2	1	PC61C-6312-F5
																2	1
										230	1	2	2	1	2	1	PC61C-6312-P5
																2	1
					22	37	37	80	24	1	2	PC61C-8012-B5					
											2	1	PC61C-8021-B5				
										110	1	2	2	1	2	1	PC61C-8012-F5
																2	1
										230	1	2	2	1	2	1	PC61C-8012-P5
																2	1
23	45	45	95	24						1	2	PC61C-9512-B5					
											2	1	PC61C-9521-B5				
										110	1	2	2	1	2	1	PC61C-9512-F5
																2	1
										230	1	2	2	1	2	1	PC61C-9512-P5
																2	1
					25	50	50	125	24	1	2	PC61C-12512-B5					
											2	1	PC61C-12521-B5				
										110	1	2	2	1	2	1	PC61C-12512-F5
																2	1
										230	1	2	2	1	2	1	PC61C-12512-P5
																2	1

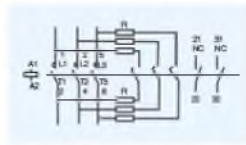
Terminal and electric diagram



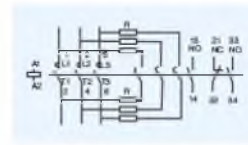
PC61C-2511
PC61C-3211
PC61C-4311



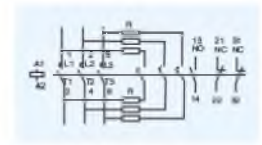
PC61C-2520
PC61C-3220
PC61C-4320



PC61C-2502
PC61C-3202
PC61C-4302

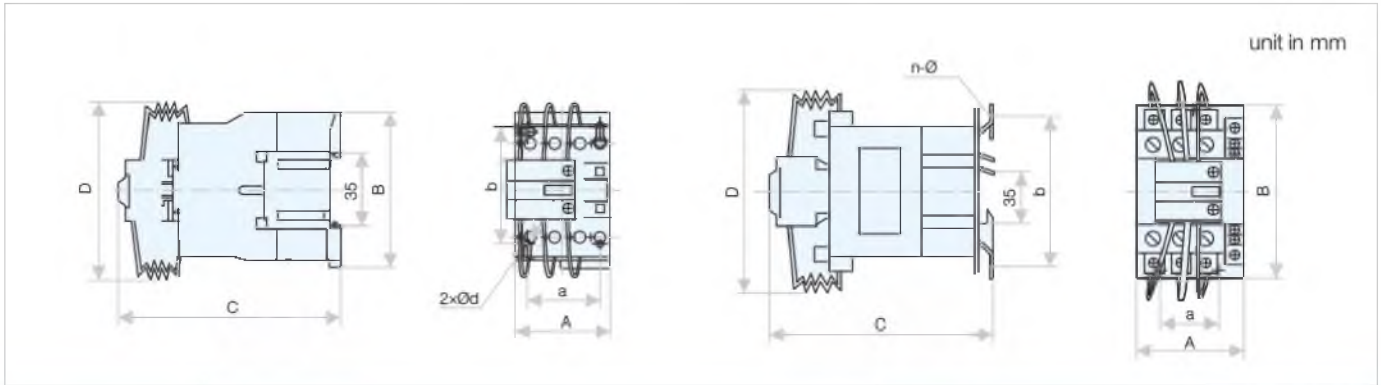


PC61C-5021
PC61C-6321
PC61C-8021
PC61C-9521
PC61C-12521



PC61C-5012
PC61C-6312
PC61C-8012
PC61C-9512
PC61C-12512

Outline and installation dimensions



Type	Outline dimensions				Installation dimensions		
	A	B	C	D	a	b	C
PC61C-25	47	76	124	100	34/35	50/60	2-Ø4.5
PC61C-32	57	86	132	110	40	50/60	2-Ø4.5
PC61C-43	57	86	136	110	40	50/60	2-Ø4.5
PC61C-50	77	129	152	155	40	100/110	3-Ø6.5
PC61C-63	77	129	152	155	40	100/110	3-Ø6.5
PC61C-80	77	129	152	155	40	100/110	3-Ø6.5
PC61C-95	87	129	162	165	40	100/110	3-Ø6.5
PC61C-125	87	129	162	165	40	100/110	3-Ø6.5

PC61, contactors, up to 45 kW

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by external power failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure

Applications And Functions

- Used for controlling 3-phase motors and generally for controlling power circuits
- Used for many other applications such as isolating, capacitor switching and lighting

Technical specifications for type PC61

Type	PC61-09 PC61-12 PC61-18 PC61-25 PC61-32 PC61-40 PC61-50 PC61-65 PC61-80 PC61-85 PC61-95											
Standard	IEC 60947-4-1											
Number of poles	3, 4 3, 4 3 3, 4 3 3, 4 3, 4 3, 4 3, 4 3, 4 3, 4											
Rated operational current I _e (A)	380 V	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
	660 V	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 operational voltage U _e (V)	440 V	In AC-1	20	25	32	40	50	60	80	80	110	125
Rated operational voltage U _e (V)	Up to		690									
Frequency limits of the operational current (time/h)	25-400											
Rated conventional thermal current I _{th} (A)	25 25 32 40 50 60 80 80 125 125											
Rated insulation voltage U _i (V)	690											
Rated impulse withstand voltage U _{imp} (kV)	8											
Rated frequency (Hz)	50/60											
Rated making capacity (A)	400 V	10 x I _e AC-3 or 12 x I _e AC-4										
Rated breaking capacity (A)	400 V	8 x I _e AC-3 or 10 x I _e AC-4										
Rated operational power in category AC-3 (kW)	220/230/240 V	2.2	3	4	5.5	7.5	11	15	18.5	22	25	
	380/400 V	4	5.5	7.5	11	15	18.5	22	30	37	45	
	660/690 V	5.5	7.5	10	15	18.5	30	33	37	45	45	
Fuse protection against short-circuit (A)	Without thermal overload relay, gG fuse Type 1	20	25	32	40	50	63	80	80	125	160	
		Type 2	20	20	25	32	40	50	63	80	150	150
	With thermal overload relay	see specification and ordering data of PTR61, for aM or gG fuse ratings corresponding to the associated thermal overload relay										
Average impedance per pole (mΩ)	2.5 2.5 2.5 2 2 1.5 1.5 0.8 0.8											
Add-on auxiliary contact blocks	Front	PC61-A1 and PC61-A1D										
	Side	PC61-A1C										
	Front time delay	PC61-A2										
	Front dust and damp protected	■										
Reversing contactor type	PC61DN											
Associated thermal overload relays	PTR61-25						PTR61-36 PTR61-93					
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	
Electrical life (X 10 ⁵ 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 ⁶ times)	10 10 10 10 8 8 8 8 6 6											
Matching fuse model	RT16-20 RT16-20 RT16-32 RT16-40 RT16-50 RT16-63 RT16-80 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 5 9 9											
Cabling cross section (CU)	Flexible cable with cold-pressed 2 socket (mm ²)	1/2.5	1/2.5	1/4	1/4	1.5/4	2.5/10	2.5/10	2.5/10	4/16	4/16	
	Flexible cable without cold-pressed 2 socket (mm ²)	1/4	1/4	1.5/6	1.5/6	2.5/10	2.5/16	2.5/16	2.5/16	4/25	4/25	
	Inflexible 2 cable (mm ²)	1/4	1.5/4	1.5/6	1.5/6	1.5/10	2.5/25	2.5/25	2.5/25	4/50	4/50	
Screw size	M3.5 M3.5 M3.5 M4 M4 M8 M8 M8 M10 M10											
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	Conforming to UL 94	V1										

Technical specifications for auxiliary contacts PC61-A1/A1D/A1C

- Standard: IEC 60947-5-1
- Number of auxiliary contacts: 2, 4
- Mounting type: Front, side
- Conventional heating current (A): 10
- Rated operational voltage U_e (V): Up to 690
- Rated insulation voltage U_i (V): 690
- Conventional thermal current I_{th} (A): 10
- Minimum switching capacity I_{min} (mA): 5
- Short circuit protection (A): gG fuse: 10 A
- Rated making capacity (A): 140

Technical specifications for time delay contact PC61-A2/A3

- Standard: IEC 60255-5
- Number of contacts: 2
- Mounting type: Front
- Delay time type making time delay, breaking time delay
- Timing ranges: 0.1-3, 0.1-30, 10-180
- Repeat accuracy: $\pm 3\%$ (10 ms minimum)
- Reset time
- During time delay period (ms): 150
- After time delay period (ms): 50
- Conventional heating current (A): 10
- Rated operational voltage U_e (V): Up to 690
- Rated insulation voltage U_i (V): 250
- Conventional thermal current I_{th} (A): 10

Voltage and frequency for coil PC61-D2/D4/D6






Coil voltage U_s (V)	12	20	24	32	36	42	48	60	100	110	115	120	127	208	220	230	240	265	380	400	415	440	480	500	550	600	550/600 600/660	660/690
50 Hz	J5	-	B5	C5	-	D5	E5	-	-	F5	FE5	G5	FC5	LE5	M5	P5	U5	-	Q5	V5	N5	R5	T5	S5	SC5	X5	-	Y5
60 Hz	-	-	B6	-	-	-	E6	-	-	F6	-	-	-	-	M6	-	U6	-	Q6	-	-	R6	-	-	-	-	-	Y6
50/60 Hz	J7	Z7	B7	C7	CC7	D7	E7	EE7	K7	F7	FE7	-	FC7	-	M7	P7	U7	W7	Q7	V7	N7	R7	-	S7	-	-	X7	Y7

Technical specifications for coil PC61-D2/D4/D6

Suitable contactor		PC61-D2			PC61-D4		PC61-D6					
Coil consumption	Pick-up (VA)	PC61-09	PC61-12	PC61-18	PC61-25	PC61-32	PC61-40	PC61-50	PC61-65	PC61-80	PC61-95	
	Holding (VA)	50 Hz, 60 Hz	9.0	9.0	9.0	10	10	245	245	245	245	245
		50/60 Hz	10	10	10	11	11	32	32	32	32	32
Power (W)		2~3.5	2~3.5	2~3.5	3~4	3~4	6~10	6~10	6~10	6~10	6~10	

Selection and ordering data

AC contactors?PC61, 3-pole, 4 to 45 kW

AC-3 220/230 V (kW)	Rated operational power		Rated operational current AC-3 380/400 V (A)	Main contact		Rated control circuit voltage V 50 Hz	Auxiliary contact		Type code		
	380/400 V (kW)	660/690 V (kW)		3	0		1	0			
	2.2	4	5.5	9	3	0	24	1	0	PC61-0910-B5	
								0	1	PC61-0901-B5	
								1	1	PC61-0911-B5	
								110	1	0	PC61-0910-F5
									0	1	PC61-0901-F5
									1	1	PC61-0911-F5
								230	1	0	PC61-0910-P5
									0	1	PC61-0901-P5
									1	1	PC61-0911-P5
	3	5.5	7.5	12	3	0	24	1	0	PC61-1210-B5	
								0	1	PC61-1201-B5	
								1	1	PC61-1211-B5	
								110	1	0	PC61-1210-F5
									0	1	PC61-1201-F5
									1	1	PC61-1211-F5
								230	1	0	PC61-1210-P5
									0	1	PC61-1201-P5
									1	1	PC61-1211-P5
	4	7.5	10	18	3	0	24	1	0	PC61-1810-B5	
								0	1	PC61-1801-B5	
								1	1	PC61-1811-B5	
								110	1	0	PC61-1810-F5
									0	1	PC61-1801-F5
									1	1	PC61-1811-F5
								230	1	0	PC61-1810-P5
									0	1	PC61-1801-P5
									1	1	PC61-1811-P5
	5.5	11	15	25	3	0	24	1	0	PC61-2510-B5	
								0	1	PC61-2501-B5	
								1	1	PC61-2511-B5	
								110	1	0	PC61-2510-F5
									0	1	PC61-2501-F5
									1	1	PC61-2511-F5
								230	1	0	PC61-2510-P5
									0	1	PC61-2501-P5
									1	1	PC61-2511-P5
	7.5	15	18.5	32	3	0	24	1	0	PC61-3210-B5	
								0	1	PC61-3201-B5	
								1	1	PC61-3211-B5	
								110	1	0	PC61-3210-F5
									0	1	PC61-3201-F5
									1	1	PC61-3211-F5
								230	1	0	PC61-3210-P5
									0	1	PC61-3201-P5
									1	1	PC61-3211-P5
11	18.5	30	40	3	0	24	1	1	PC61-4011-B5		
							110	1	1	PC61-4011-F5	
							230	1	1	PC61-4011-P5	
15	22	33	50	3	0	24	1	1	PC61-5011-B5		
							110	1	1	PC61-5011-F5	
							230	1	1	PC61-5011-P5	
18.5	30	37	65	3	0	24	1	1	PC61-6511-B5		
							110	1	1	PC61-6511-F5	
							230	1	1	PC61-6511-P5	
22	37	45	80	3	0	24	1	1	PC61-8011-B5		
							110	1	1	PC61-8011-F5	
							230	1	1	PC61-8011-P5	
25	45	45	95	3	0	24	1	1	PC61-9511-B5		
							110	1	1	PC61-9511-F5	
							230	1	1	PC61-9511-P5	


Selection and ordering data

AC contactors?PC61, 4-pole, 4 to 45 kW

Rated operational power			Rated operational current AC-3 380/400 V (A)	Main contact		Rated control circuit voltage V 50 Hz	Auxiliary contact		Type code
220/230 V (kW)	380/400 V (kW)	660/690 V (kW)		4	0		4	0	
2.2	4	5.5	9	4	0	24	0	0	PC61-09004-B5
						110	0	0	PC61-09004-F5
						230	0	0	PC61-09004-P5
				2	2	24	0	0	PC61-09008-B5
						110	0	0	PC61-09008-F5
						230	0	0	PC61-09008-P5
3	5.5	7.5	12	4	0	24	0	0	PC61-12004-B5
						110	0	0	PC61-12004-F5
						230	0	0	PC61-12004-P5
				2	2	24	0	0	PC61-12008-B5
						110	0	0	PC61-12008-F5
						230	0	0	PC61-12008-P5
5.5	11	15	25	4	0	24	0	0	PC61-25004-B5
						110	0	0	PC61-25004-F5
						230	0	0	PC61-25004-P5
				2	2	24	0	0	PC61-25008-B5
						110	0	0	PC61-25008-F5
						230	0	0	PC61-25008-P5
11	18.5	30	40	4	0	24	0	0	PC61-40004-B5
						110	0	0	PC61-40004-F5
						230	0	0	PC61-40004-P5
				2	2	24	0	0	PC61-40008-B5
						110	0	0	PC61-40008-F5
						230	0	0	PC61-40008-P5
15	22	33	50	4	0	24	0	0	PC61-50004-B5
						110	0	0	PC61-50004-F5
						230	0	0	PC61-50004-P5
				2	2	24	0	0	PC61-50008-B5
						110	0	0	PC61-50008-F5
						230	0	0	PC61-50008-P5
18.5	30	37	65	4	0	24	0	0	PC61-65004-B5
						110	0	0	PC61-65004-F5
						230	0	0	PC61-65004-P5
				2	2	24	0	0	PC61-65008-B5
						110	0	0	PC61-65008-F5
						230	0	0	PC61-65008-P5
22	37	45	80	4	0	24	0	0	PC61-80004-B5
						110	0	0	PC61-80004-F5
						230	0	0	PC61-80004-P5
				2	2	24	0	0	PC61-80008-B5
						110	0	0	PC61-80008-F5
						230	0	0	PC61-80008-P5
25	45	45	95	4	0	24	0	0	PC61-95004-B5
						110	0	0	PC61-95004-F5
						230	0	0	PC61-95004-P5
				2	2	24	0	0	PC61-95008-B5
						110	0	0	PC61-95008-F5
						230	0	0	PC61-95008-P5






Selection and ordering data

Reversing contactors PC61DN, 4 to 45 kW

	Rated operational power			Rated operational current	Rated control circuit voltage	Type code
	AC-3			AC-3	V 50 Hz	
	220/230 V (kW)	380/400 V (kW)	660/690 V (kW)	380/400 V (A)		
	2.2	4	5.5	9	24	PC61DN-09-B5
					110	PC61DN-09-F5
					230	PC61DN-09-P5
	3	5.5	7.5	12	24	PC61DN-12-B5
					110	PC61DN-12-F5
					230	PC61DN-12-P5
	4	7.5	10	18	24	PC61DN-18-B5
					110	PC61DN-18-F5
					230	PC61DN-18-P5
	5.5	11	15	25	24	PC61DN-25-B5
					110	PC61DN-25-F5
					230	PC61DN-25-P5
7.5	15	18.5	32	24	PC61DN-32-B5	
				110	PC61DN-32-F5	
				230	PC61DN-32-P5	
11	18.5	30	40	24	PC61DN-40-B5	
				110	PC61DN-40-F5	
				230	PC61DN-40-P5	
15	22	33	50	24	PC61DN-50-B5	
				110	PC61DN-50-F5	
				230	PC61DN-50-P5	
18.5	30	37	65	24	PC61DN-65-B5	
				110	PC61DN-65-F5	
				230	PC61DN-65-P5	
22	37	45	80	24	PC61DN-80-B5	
				110	PC61DN-80-F5	
				230	PC61DN-80-P5	
25	45	45	95	24	PC61DN-95-B5	
				110	PC61DN-95-F5	
				230	PC61DN-95-P5	

Selection and ordering data

Instantaneous auxiliary contact blocks

	Type	Auxiliary contact		Type code
				
	Side-mounted			
	PC61-A1C	1	1	PC61-A1C-11
	Front-mounted			
	PC61-A1D	0	1	PC61-A1D-01
		1	0	PC61-A1D-10
	PC61-A1	0	2	PC61-A1-02
		1	1	PC61-A1-11
		2	0	PC61-A1-20
		0	4	PC61-A1-04
		1	3	PC61-A1-13
		2	2	PC61-A1-22
		3	1	PC61-A1-31
		4	0	PC61-A1-40

Time-delay auxiliary contact blocks

Type	Auxiliary contact	Time-delay setting range		Type code
		Type	Setting range	
PC61-A2	1 1	On-delay	0.1 ... 3 s	PC61-A2-T0
			0.1 ... 30 s	PC61-A2-T2
			10 ... 180 s	PC61-A2-T4
PC61-A3	1 1	Off-delay	0.1 ... 3 s	PC61-A3-T0
			0.1 ... 30 s	PC61-A3-T2
			10 ... 180 s	PC61-A3-T4



Coils

Size	For contactors	Rated control circuit voltage		Type code
		V 50 Hz		
D2	PC61 09 ... 18	24	PC61-D2-B5	
		110	PC61-D2-F5	
		230	PC61-D2-P5	
D4	PC61 25 ... 32	24	PC61-D4-B5	
		110	PC61-D4-F5	
		230	PC61-D4-P5	
D6	PC61 40 ... 95	24	PC61-D6-B5	
		110	PC61-D6-F5	
		230	PC61-D6-P5	



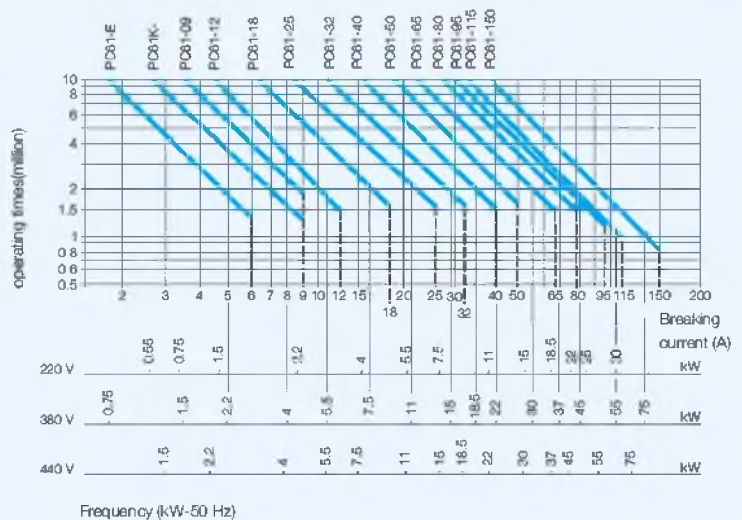
Mechanical interlock for inverting contactors

Type	For contactors	Type code
PC61-A4	PC61 09...32	PC61-A4X
	PC61 40...95	PC61-A4D



Electrical life curve for AC contactor PC61

For breaking control when AC-3 type work. ($U_e \leq 440$ V)
The breaking current is equal to rated making current.

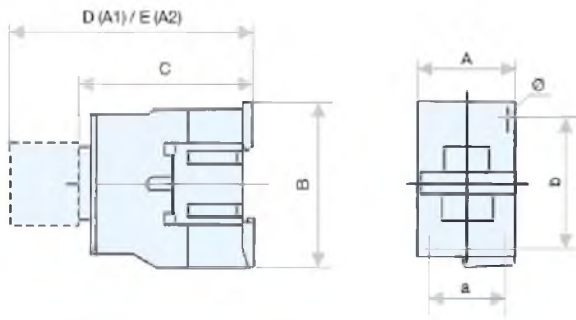


Notes:
Asynchronous, P = 5.5 kW,
 $U_e = 400$ V, $I_e = 11$ A, $I_c = I_e = 11$ A
motor or asynchronous, P = 5.5 kW,
 $U_e = 415$ V, $I_e = 11$ A, $I_c = I_e = 11$ A
For 30 million electrical life.

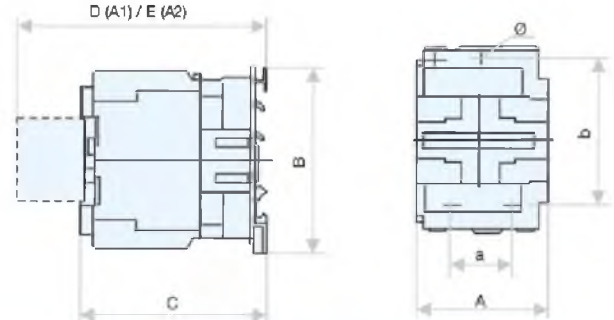
Outline and installation dimensions

unit in mm

PC61-09...32



PC61-40...95



Type		A max	B max	C max	D max	E max	a	b	Ø
3	PC61-09...12	47	76	82	113	133	34/35	50/60	2-Ø4.5
	PC61-18	47	76	87	118	138	34/35	50/60	2-Ø4.5
	PC61-25	57	86	95	126	146	40	48	2-Ø4.5
	PC61-32	57	86	100	131	151	40	48	2-Ø4.5
	PC61-40...65	77	129	116	145	165	40	100/110	3-Ø6.5
	PC61-80...95	87	129	127	156	176	40	100/110	3-Ø6.5
4	PC61-09...12	47	76	82	113	133	34/35	50/60	2-Ø4.5
	PC61-25	57	86	95	126	146	40	48	2-Ø4.5
	PC61-40...65	86	129	116 (129)	145	165	40	100/110	3-Ø6.5
	PC61-80...95	97	129	127 (140)	156	176	40	100/110	3-Ø6.5

Notes: The dimensions in brackets are for 008 (4P) type

VC51C, contactors for capacitor switching

- Switching parallel connection capacitance from low voltage reactive power compensating equipments
- Reducing efficiently the impact to capacitor and restraining overvoltage when switching ON/OFF with special flow-cut equipment.

Technical Specifications

Type		VC51C-25	VC51C-32	VC51C-43	VC51C-50	VC51C-63	VC51C-80	VC51C-95	VC51C-125
Rated insulating voltage UI	V	690	690	690	690	690	690	690	690
Rated conventional thermal current I _{th}	A	25	32	43	50	63	80	95	125
Controllable power AC-6b	220/230 V	Kvar	6	8.5	10	12	15	22	25
	380/400 V	Kvar	12	16	20	25	30	37	45
	660/690 V	Kvar	12	16	20	25	30	37	45
Rated current of capacitor	400 V	A	17.3	23	29	36	43	53	65
Rated working current 1.3I _e	A	22.5	30	37.7	47	56	69	85	94
Restrained surge capacity		≤ 20 I _e	≤ 20 I _e	≤ 20 I _e	≤ 20 I _e	≤ 20 I _e	≤ 20 I _e	≤ 20 I _e	≤ 20 I _e
Coil consumed power	Starting	VA	70	100	100	245	245	245	245
	Holding	VA	9	10	10	30	30	30	30
Auxiliary contact type	2NO		√	√	√	-	-	-	-
	2NC		√	√	√	-	-	-	-
	1NO + 1NC		√	√	√	-	-	-	-
	2NO + 1NC		-	-	-	√	√	√	√
	1NO + 2NC		-	-	-	√	√	√	√
Mechanical life	10 ⁴	times	300	300	300	100	100	100	80
Electrical life	10 ⁴	times	10	10	10	6	6	6	6
Operating frequency		times/h	120	120	120	120	120	120	120
Pollution grade			3	3	3	3	3	3	3
Installation category			3	3	3	3	3	3	3
Installation type	screws		√	√	√	√	√	√	√
	35mm DIN-rail		√	√	√	√	√	√	√
	75mm DIN-rail		-	-	-	-	√	√	√
Ambient air temperature	°C	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40
Altitude	max.	meter	2000	2000	2000	2000	2000	2000	2000
Coil sectional area (mm ²)			4	6	10	10	16	25	35
Tightening torque (N·m)			1.7	2.0	2.5	5	5	9	9

VC51F, contactors, up to 400 kW

- Used for controlling 3-phase motors and generally for controlling power circuits.
- Used for many other applications such as isolation, capacitor switching and lighting.

Technical Specifications

Model	VC51F-115	VC51F-150	VC51F-185	VC51F-225	VC51F-265	VC51F-330	VC51F-400	VC51F-500	VC51F-630	VC51F-780	
Standard	IEC 60947-4-1										
Number of poles	3, 4	3, 4	3, 4	3, 4	3	3	3, 4	3, 4	3, 4	3, 4	
Rated operational current I _e (A)	In AC-3	115	150	185	225	265	330	400	500	630	780
	In AC-1	200	250	275	315	350	400	500	700	1000	1600
Rated operational voltage U _e (V) Up to	1000										
Frequency limits of the operational current (time/h)	16-200										
Rated conventional thermal current I _{th} (A)	200	250	275	315	350	400	500	700	1000	1600	
Rated insulation voltage U _i (V)	1000										
Rated impulse withstand voltage U _{imp} (kV)	8										
Rated frequency (Hz)	50/60										
Rated making capacity (A)	10 x I _n AC-3 or 12 x I _n AC-4										
Rated breaking capacity (A)	8 x I _n AC-3 or 10 x I _n AC-4										
Rated operational power in category AC-3 (kW)	400 V	30	40	55	68	75	100	129	147	200	220
	220/230/240 V	55	75	90	100	132	160	200	250	335	400
	380/400 V	80	100	120	129	180	220	280	355	450	475
Short-circuit protection by fuse (A)	Motor circuit (type aM)	125	160	200	250	315	400	400	500	630	-
	With thermal overload relay (type gG)	200	200	315	315	500	500	630	800	800	-
	gG fuses	200	250	315	315	400	500	500	800	1000	-
Average impedance per pole (mΩ)	0.37	0.35	0.33	0.32	0.3	0.28	0.26	0.18	0.12	0.1	
Add-on auxiliary contact blocks	Front	identical to those used on VC51 contactors									
	Side	-									
	Front time delay	identical to those used on VC51 contactors									
	Front dust and damp protected	-									
Reversing contactor type	VC51FN										
Associated thermal overload relays	VTR51F-53					VTR51F-73					
Operation cycles (times/hour) In AC-3	1200	1200	600	600	600	600	600	600	600	600	
Electrical life (X 10 ⁶ times)	1.2	1.2	1	1	0.8	0.8	0.8	0.8	0.8	0.8	
Mechanical life (X 10 ⁶ times)	10	10	6	6	6	6	6	6	6	6	
Matching fuse model	RT16-1	RT16-1	RT16-2	RT16-2	RT16-2	RT16-3	RT16-3	RT16-4	RT16-4	RT16-4	
Tightening torque (N·m) Connection	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	4	4	
Cabling cross section CU (mm ²)	95	120	150	185	240	240	2 x 150	2 x 240	240	300	
Screw size	M6	M8	M8	M10	M10	M10	M10	M12	M12	M4	
Degree of protection	IP20										
Ambient air temperature (°C)	-5 to +40, max. 95 % humidity										
Storage temperature (°C)	-40 – +70										
Maximum operating altitude (meters)	2000										
Flame resistance	Conforming to UL 94	V1									

VC51K, mini contactors, up to 51.5 kW

- Used for controlling 3-phase motors and generally for controlling power circuits.
- Used for many other applications such as isolation, capacitor switching and lighting.

Technical Specifications

Type		VC51K-0610, VC51K-0601, VC51K-06004, VC51K-06008	VC51K-0910, VC51K-0901, VC51K-09004, VC51K-09008	VC51K-1210, VC51K-1201, VC51K-12004, VC51K-12008
Standard		IEC 60947-4-1		
Number of contacts		3NO+1NO, 3NO+1NC, 4NO, 2NO+2NC		
Rated conventional thermal current I _{th} (A)	AC-1	20		
Rated operational voltage U _e (V)		690		
Rated insulation voltage U _i (V)		690		
Rated impulse withstand voltage U _{imp} (kV)		6		
Rated frequency (Hz)		50/60		
Rated operational current (A)	AC-3 380/400 V	6	9	12
	AC-4 380/400 V	2.6	3.5	5
Number of poles		3,4	3,4	3,4
Rated operational power in category AC-3 (kW)	220/230/240 V	1.5	2.2	3
	380/400 V	2.2	4	5.5
	660/690 V	3	4	5.5
Rated making capacity (A)		110	110	114
Rated breaking capacity (A)	380 V	100	100	100
	690 V	70	70	70
Short-circuit protection (A)	gG fuse U ≤ 440 V	25		
Average impedance per pole (mΩ)		3		
Add-on auxiliary contact blocks	Front	VC51K-A1		
	Side	-		
	Front time delay	-		
	Front dust and damp protected	-		
Reversing contactor type		VC51KN		
Associated thermal overload relays	3 Pins/5 Pins	VTR51K		
Operation cycles(times/hour)	Electrical AC-3	1200		
	Electrical AC-4	300		
	Mechanical	3600		
Electrical life (X 10 ⁴ times)	AC-3	100	120	
	AC-4	20		
Mechanical life (X 10 ⁴ times)		1000		
Matching fuse model		RT16-16	RT16-20	
Tightening torque (N·m)		0.8		
Connection				
Screw clamp terminals	solid conductor (mm ²)	Max. 1x4+1x2.5		
	Flexible conductor without cable end (mm ²)	Max. 2x2.5		
	Flexible conductor with cable end (mm ²)	Max. 1X1.5+1X2.5		
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	Conforming to UL 94	V1		

Technical specifications for auxiliary contact incorporated in the contactor type VC51K

Standard: IEC 60947-5-1

Number of auxiliary contact: 2, 4

Mounting type: Front

Conventional heating current (A): 10

Rated operational voltage U_e (V): Up to 690

Rated insulation voltage U_i (V): 690

Conventional thermal current I_{th} (A): 10

Minimum switching capacity I_m (mA): 5

Short circuit protection (A): 10

Rated making capacity (A): 110

VC51, contactors, up to 45 kW

- Used for controlling 3-phase motors and generally for controlling power circuits.
- Used for many other applications such as isolation, capacitor switching and lighting.

Technical Specifications For Type VC51

Type		VC51-09	VC51-12	VC51-18	VC51-25	VC51-32	VC51-40	VC51-50	VC51-65	VC51-80	VC51-95	
Standard		IEC 60947-4-1										
Number of poles		3, 4	3, 4	3	3, 4	3	3, 4	3, 4	3, 4	3, 4	3, 4	
Rated operational current I _e (A)	380 V	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
	680 V	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
	440 V	In AC-1	20	25	32	40	50	60	80	80	110	125
Rated operational voltage U _e (V)	Up to	690										
Frequency limits of the operational current (time/h)		25-400										
Rated conventional thermal current I _{th} (A)		25	25	32	40	50	60	80	80	125	125	
Rated insulation voltage U _i (V)		690										
Rated impulse withstand voltage U _{imp} (kV)		8										
Rated frequency (Hz)		50/60										
Rated making capacity (A)	400 V	10 x I _e AC-3 or 12 x I _e AC-4										
Rated breaking capacity (A)	400 V	8 x I _e AC-3 or 10 x I _e AC-4										
Rated operational power in category AC-3 (kW)	220/230/240 V	2.2	3	4	5.5	7.5	11	15	18.5	22	25	
	380/400 V	4	5.5	7.5	11	15	18.5	22	30	37	45	
	680/690 V	5.5	7.5	10	15	18.5	30	33	37	45	45	
Fuse protection against short-circuit (A)	Without thermal overload relay, Gg fuse Type 1	20	25	32	40	50	63	80	80	125	160	
		Type 2	20	20	25	32	40	50	63	80	150	150
	With thermal overload relay	see specification and ordering data of VTR51, for aM or gG fuse ratings corresponding to the associated thermal overload relay										
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	VC51-A1 and VC51-A1D										
	Side	VC51-A1C										
	Front time delay	VC51-A2, VC51-A3										
	Front dust and damp protected	■										
Reversing contactor type		VC51DN										
Associated thermal overload relays		VTR51-25					VTR51-36 VTR51-93					
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	
Electrical 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 ⁶ times)		10	10	10	10	8	8	8	8	6	6	
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	
Cabling cross section (CU)	Flexible cable with cold-pressed 2 socket (mm ²)	1/2.5	1/2.5	1/4	1/4	1.5/4	2.5/10	2.5/10	2.5/10	4/16	4/16	
	Flexible cable without cold-pressed 2 socket (mm ²)	1/4	1/4	1.5/6	1.5/6	2.5/10	2.5/16	2.5/16	2.5/16	4/25	4/25	
	Inflexible 2 cable (mm ²)	1/4	1.5/4	1.5/6	1.5/6	1.5/10	2.5/25	2.5/25	2.5/25	4/50	4/50	
Screw size		M3.5	M3.5	M3.5	M4	M4	M8	M8	M8	M10	M10	
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	Conforming to UL 94	V1										

Technical specifications for auxiliary contacts VC51-A1

- Standard: IEC 60947-5-1
- Number of auxiliary contacts: 2, 4
- Mounting type: Front, side
- Conventional heating current (A): 10
- Rated operational voltage Ue (V): Up to 690
- Rated insulation voltage Ui (V): 690
- Conventional thermal current Ith (A): 10
- Minimum switching capacity Imin (mA): 5
- Short circuit protection (A): gG fuse: 10 A
- Rated making capacity (A): 140

Technical specifications for time delay contact VC51-A2/A3

- Standard: IEC 60255-5
- Number of contacts: 2
- Mounting type: Front
- Delay time type making time delay, breaking time delay
- Timing ranges: 0.1-3, 0.1-30, 10-180
- Repeat accuracy: ± 3 % (10 ms minimum)
- Reset time
- During time delay period (ms): 150
- After time delay period (ms): 50
- Conventional heating current (A): 10
- Rated operational voltage Ue (V): Up to 690
- Rated insulation voltage Ui (V): 250
- Conventional thermal current Ith (A): 10

Voltage and frequency for coil VC51-D2/D4/D6

Coil voltage Us (V)	12	20	24	32	36	42	48	60	100	110	115	120	127	208	220	230	240	265	380	400	415	440	480	500	550	600	550/600	660/690
50 Hz	J5	-	B5	C5	-	D5	E5	-	-	F5	FE5	G5	FC5	LE5	M5	P5	U5	-	Q5	V5	N5	R5	T5	S5	SC5	X5	-	Y5
60 Hz	-	-	B6	-	-	-	E6	-	-	F6	-	-	-	-	M6	-	U6	-	Q6	-	-	R6	-	-	-	-	-	Y6
50/60 Hz	J7	Z7	B7	C7	CC7	D7	E7	EE7	K7	F7	FE7	-	FC7	-	M7	P7	U7	W7	Q7	V7	N7	R7	-	S7	-	-	X7	Y7

Technical specifications for coil VC51-D2/D4/D6

Suitable contactor		VC51-D2			VC51-D4		VC51-D6				
		VC51-09	VC51-12	VC51-18	VC51-25	VC51-32	VC51-40	VC51-50	VC51-65	VC51-80	VC51-95
Coil consumption	Pick-up (VA)	70	70	70	100	100	245	245	245	245	245
	Holding (VA)	50 Hz, 60 Hz	9.0	9.0	9.0	10	10	30	30	30	30
		50/60 Hz	10	10	10	11	11	32	32	32	32
	Power (W)	2~3.5	2~3.5	2~3.5	3~4	3~4	6~10	6~10	6~10	6~10	6~10

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