



NC7 Series AC Contactor

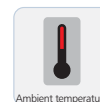
1. General

The NC7 series AC contactor (hereinafter referred to as "contractor") is mainly used in the circuit with an alternating current of 50Hz (or 60Hz), rated operational voltage up to 690V, and rated operational current up to 620A under the usage category of AC-3/400V; this contact is mainly used for remotely closing and breaking circuits, and can be combined with an appropriate thermal overload relay to form a electromagnetic starter so as to protect the circuits likely to be overloaded in operation; the contact is well suited for frequently starting and controlling AC motors.

This product meets the standard of IEC60947-4-1

2. Operating conditions

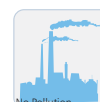
- 2.1 Ambient air temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$, its mean value not greater than $+35^{\circ}\text{C}$ within 24 hours.
- 2.2 Atmospheric conditions:
When the maximum temperature is $+40^{\circ}\text{C}$, the relative humidity of the air shall not be higher than 50%; a higher relative humidity is allowed at a lower temperature, e.g., up to 90% at 20°C . Special measures shall be taken for the condensation occasionally produced due to temperature change.
- 2.3 Altitude: not higher than 2000m.
- 2.4 Pollution grade: 3
- 2.5 Installation classification: III
- 2.6 Installation condition:
the installing surface shall be inclined at not greater than $\pm 5^{\circ}$ to the vertical.
- 2.7 Impact vibration:
The product shall be installed in the place free of remarkable shake, impact and vibration.



Ambient temperature



Altitude



No Pollution

3. Type and meaning

3.1 Product type and meaning

NC7	–	09	01	/N																																																	
AC Contactor		<table><tr><th colspan="2">Main circuit current</th></tr><tr><td>09</td><td>9A</td></tr><tr><td>12</td><td>12A</td></tr><tr><td>...</td><td>...</td></tr><tr><td>475</td><td>475A</td></tr><tr><td>620</td><td>620A</td></tr></table>	Main circuit current		09	9A	12	12A	...	...	475	475A	620	620A	<table><tr><th colspan="3">Number of auxiliary contacts</th></tr><tr><td rowspan="2">9A~38A</td><td>01</td><td>1NC</td></tr><tr><td>10</td><td>1NO</td></tr><tr><td>9A~95A</td><td>11</td><td>1NO+1NC</td></tr><tr><td>115A~170A</td><td>22</td><td>2NO+2NC</td></tr><tr><td>205A~620A</td><td>omitted</td><td>4NO+4NC</td></tr></table>	Number of auxiliary contacts			9A~38A	01	1NC	10	1NO	9A~95A	11	1NO+1NC	115A~170A	22	2NO+2NC	205A~620A	omitted	4NO+4NC	<table><tr><th colspan="3">An interlock product</th></tr><tr><td rowspan="2">9A~95A</td><td>/N</td><td>Reversible product</td></tr><tr><td>omitted</td><td>Single unit of the product</td></tr><tr><td rowspan="2">115A~170A</td><td>/N</td><td>Reversible product</td></tr><tr><td>omitted</td><td>Single unit of the product</td></tr><tr><td rowspan="3">205A~620A</td><td>/Nc</td><td>Reversible product vertical installation</td></tr><tr><td>/Ns</td><td>Reversible product horizontal installation</td></tr><tr><td>omitted</td><td>Single unit of the product</td></tr></table>	An interlock product			9A~95A	/N	Reversible product	omitted	Single unit of the product	115A~170A	/N	Reversible product	omitted	Single unit of the product	205A~620A	/Nc	Reversible product vertical installation	/Ns	Reversible product horizontal installation	omitted	Single unit of the product
Main circuit current																																																					
09	9A																																																				
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	/Ns	Reversible product horizontal installation																																																			
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3.2 Accessory type and meaning

AX-3

Top suspension auxiliary contactor block

/

20

Number of auxiliary contacts	
20	2NO
11	1NO+1NC
02	2NC
40	4NO
31	3NO+1NC
22	2NO+2NC
13	1NO+3NC
04	4NC

F5

Air time-delay head

-

T

Time-delay type	
T	Making time-delay
D	Breaking time-delay

0

Time-delay range	
0	0.1s~3s
2	0.1s~30s
4	10s~180s

NCF1

Side suspension auxiliary contactor block

11C

Number of auxiliary contacts

11C1NO+1NC

NJL

Mechanical interlock module

S-GG

Installation mode		Size code	
s	Horizontal installation	GG	NC7-205 Combination of two units
		HH	NC7-250~300 Combination of two arbitrary units
		KK	NC7-410~475 Combination of two arbitrary units
		LL	NC7-620 Combination of two units
c	Vertical installation	GG	NC7-205 Combination of two units
		GH	NC7-205 and NC7-250~300
		GK	NC7-205 and NC7-410~475
		GL	NC7-205 and NC7-620
		HH	NC7-250~300 Combination of two arbitrary units
		HK	NC7-250~300 and NC7-410~475
		HL	NC7-250~300 and NC7-620
		KK	NC7-410~475 Combination of two arbitrary units
		KL	NC7-410~475 and NC7-620
		LL	NC7-620 Combination of two units

Note: For the NC7 product, the 9A-95A mechanical interlock module can be directly purchased with an indication.

Note: For the NC7 product, the 9A-95A mechanical interlock module can be directly purchased with an indication.

4. Quick type selection table

Specified current		9A		12A		18A		22A		25A		32A		38A	
															
Number of the auxiliary contacts provided with the body itself	1 NO auxiliary contact	NC7-0910		NC7-1210		NC7-1810				NC7-2510		NC7-3210		NC7-3810	
	1 NC auxiliary contact	NC7-0901		NC7-1201		NC7-1801				NC7-2501		NC7-3201		NC7-3801	
	1 NO+1NC auxiliary contact	NC7-0911		NC7-1211		NC7-1811		NC7-2211		NC7-2511		NC7-3211		NC7-3811	
IEC/EN 60974-4-1		kW A		kW A		kW A		kW A		kW A		kW A		kW A	
Appointed free air heat generation current (A)		20		20		32		32		40		50		50	
Rated operational current and power	380V/400V(AC-3)	4	9	5.5	12	7.5	18	11	22	11	25	15	32	18.5	38
	380V/400V(AC-4)	1.5	3.5	2.2	5	3	7.7	3	7.7	4	8.5	5.5	12	5.5	12
	660V/690V(AC-3)	5.5	6.6	7.5	8.9	10	12	11	14	15	18	18.5	22	18.5	22
	660V/690V(AC-4)	1.1	1.5	1.5	2	3.7	3.8	3.7	3.8	4	4.4	5.5	7.5	5.5	7.5
Accessories which can be further attached															
		Side suspension auxiliary contact		Top suspension auxiliary contact		Air delay head		Mechanical interlock module							
															
		Surge suppressor		Thermal overload relay		Electronic overload relay									

Accessories which can be further attached

Side suspension auxiliary contact

Top suspension auxiliary contact

Air delay head

Mechanical interlock module

Surge suppressor

Thermal overload relay

Electronic overload relay

Specified current	115A	150A	170A
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Number of the auxiliary contacts provided with the body itself	2 NO+2NC auxiliary contact	NC7-115		NC7-150		NC7-170	
IEC/EN 60974-4-1		kW	A	kW	A	kW	A
Appointed free air heat generation current (A)			200		200		275
Rated operational current and power	380V/400V(AC-3)	55	115	75	150	90	170
	380V/400V(AC-4)	55	115	75	150	75	150
	660V/690V(AC-3)	80	86	100	107	110	118
	660V/690V(AC-4)	80	86	100	107	110	107

Accessories which can be further attached

Top suspension auxiliary contact

Air delay head

Side suspension auxiliary contact

Thermal overload relay

Electronic overload relay

Mechanical interlock module

Specified current	205A	250A	300A
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without auxiliary contacts, can mount two Top suspension auxiliary contacts	mount two AX-3/22 4NO+4NC	NC7-205		NC7-250		NC7-300	
	Other mode	Note		Note		Note	
IEC/EN 60974-4-1		kW A		kW A		kW A	
Appointed free air heat generation current (A)		275		315		380	
Rated operational current and power	380V/400V(AC-3)	110	205	132	250	160	300
	380V/400V(AC-4)	110	205	132	250	160	300
	660V/690V(AC-3)	129	137	160	170	220	235
	660V/690V(AC-4)	129	137	160	170	220	235

Accessories which can be further attached



Top suspension auxiliary contact



Air delay head



Mechanical interlock module



Thermal overload relay



Electronic overload relay

Specified current		410A		475A		620A	
							
without auxiliary contacts, can mount two Top suspension auxiliary contacts	mount two AX-3/22	NC7-410		NC7-475		NC7-620	
	4NO+4NC	Note		Note		Note	
IEC/EN 60974-4-1		kW		kW		kW	
Appointed free air heat generation current (A)		450		630		800	
Rated operational current and power	380V/400V(AC-3)	200	410	265	475	335	620
	380V/400V(AC-4)	200	410	265	475	335	620
	660V/690V(AC-3)	280	303	335	353	450	462
	660V/690V(AC-4)	280	303	335	353	450	462

Accessories which can be further attached



Top suspension auxiliary contact



Air delay head



Mechanical interlock module



Thermal overload relay



Electronic overload relay

Modularized accessories which can be installed additionally

 AX-3 Auxiliary contact	Number of auxiliary contacts	4NO	AX-3/40	Able to be used for the whole series products
		3NO+1NC	AX-3/31	
		2NO+2NC	AX-3/22	
		1NO+3NC	AX-3/13	
		4NC	AX-3/04	
		2NO	AX-3/20	
		1NO+1NC	AX-3/11	
		2NC	AX-3/02	
 F5 1N/O+1N/C Air delay head	On-delay time (s)	0.1~3	F5-T0	Able to be used for the whole series products
		0.1~30	F5-T2	
		10~180	F5-T4	
	Off-delay time (s)	0.1~3	F5-D0	
		0.1~30	F5-D2	
		10~180	F5-D4	

 NCF1-11C Secondary side suspension auxiliary contact	Number of auxiliary contacts	1NO+1NC	NCF1-11C	Able to be used for the products of 170A or lower

 SR2-A Surge suppressor	Suppression voltage range	AC 24V~48V	SR2 24V~48V	ble to be used for the products of 9A~38A or lower
		AC 100V~250V	SR2 100V~250V	
		AC 380V~440V	SR2 380V~440V	
 SR2-B Surge suppressor		AC 24V~48V	SR2-B 24V~48V	ble to be used for the products of 40A~95A or lower
		AC 100V~250V	SR2-B 100V~250V	
		AC 380V~440V	SR2-B 380V~400V	



NR2
 Thermal overload relay

NR2-25	9A~32A
NR2-36	32A, 38A
NR2-93	40A~95A
NR2-150	115A~150A
NR2-200	115A~170A
NR2-630	205A~620A



NRE8
 Electronic overload relay

NRE8-25	9A~32A
NRE8-40	40A
NRE8-100	40A~95A
NRE8-200	115A~170A
NRE8-630	205A~620A



NC7-09~95
 Mechanical interlock module



NC7-115~170
 Mechanical interlock



NC7-205~620
 Mechanical interlock

How to purchase
 the products of
 95A or lower

Purchase individually
Reversible product without connecting wire
Reversible product with connecting wire

How to purchase
 the products of
 205A or higher

Purchase it individually, and install it by yourself
Directly purchase the reversible products (specified current for two contactors to be the same)

Over 205A product
 mechanical interlocking
 mechanism code

Horizontal installation	NJLs-GG	NC7-205 Combination of two units
	NJLs-HH	NC7-250~300 Combination of two arbitrary units
	NJLs-KK	NC7-410~475 Combination of two arbitrary units
	NJLs-LL	NC7-620 Combination of two units
Vertical installation	NJLc-GG	NC7-205 Combination of two units
	NJLc-GH	NC7-205 and NC7-250~300
	NJLc-GK	NC7-205 and NC7-410~475
	NJLc-GL	NC7-205 and NC7-620
	NJLc-HH	NC7-250~300 Combination of two units
	NJLc-HK	NC7-250~300 and NC7-410~475
	NJLc-HL	NC7-250~300 and NC7-620
	NJLc-KK	NC7-410~475 Combination of two units
	NJLc-KL	NC7-410~475 and NC7-620
	NJLc-LL	NC7-620 Combination of two units

5. Main parameters and technical performance

5.1 Main parameters and technical performance criteria for the NC7 product

Type		NC7-09		NC7-12		NC7-18		NC7-22		NC7-25		NC7-32		NC7-38		NC7-40		NC7-50		NC7-65		NC7-80		NC7-95		
Rated operational current (A)	380V/400V	AC-3	9	12	18	22	25	32	38	40	50	65	80	95												
		AC-4	3.5	5	7.7	7.7	8.5	12	12	18.5	24	28	37	44												
	660V/690V	AC-3	6.6	8.9	12	14	18	22	22	34	39	42	49	49												
		AC-4	1.5	2	3.8	3.8	4.4	7.5	7.5	9	12	14	17.3	21.3												
Appointed free air heat generation current (A)			20	20	32	32	40	50	50	60	80	80	110	110												
Rated insulation voltage (V)			690	690	690	690	690	690	690	690	690	690	690	690												
Rated impulse withstand voltage (kV)			6	6	6	6	6	6	6	8	8	8	8	8												
Rated making capacity			Making current: 10Ie(AC-3) or 12Ie(AC-4)																							
Rated breaking capacity			Making/breaking current: 8Ie(AC-3) or 10Ie(AC-4)																							
Short time withstand current (10s)			72	96	144	176	200	256	304	320	400	520	640	760												
Controllable three-phase	380V/400V	4	5.5	7.5	11	11	15	18.5	18.5	22	30	37	45													
squirrel-cage motor power (AC-3) kW	660V/690V	5.5	7.5	10	11	15	18.5	18.5	30	37	37	45	45													
Intermittent-periodic-duty	380V/400V	1.5	2.2	3	3	4	5.5	5.5	7.5	11	15	18.5	22													
motor power(AC-4)kW	600V/690V	1.1	1.5	3.7	3.7	4	5.5	5.5	7.5	11	11	15	18.5													
Frequency of operation (times/h)	AC-3	1200	1200	1200	1200	1200	600	600	600	600	600	600	600													
Electrical life	AC-4	300	300	300	300	300	300	300	300	300	300	300	120	120												
	Mechanical life	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600													
Electrical life (ten thousand times)	AC-3	100	100	100	100	100	80	80	80	60	60	60	60													
	AC-4	20	20	20	20	20	20	20	15	15	15	10	10													
Mechanical life (ten thousand times)			1000	1000	1000	1000	1000	800	800	800	800	800	600	600												
Type of the fuse adapted			RT16-20		RT16-20		RT16-32		RT16-32		RT16-40		RT16-50		RT16-50		RT16-63		RT16-80		RT16-80		RT16-100		RT16-125	
Piece (of string, etc)			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Cold-pressed terminal	Non-prefabricated-tip cord	1/2.5	1/2.5	1/2.5	1/2.5	1.5/4	1.5/4	1.5/4	1.5/4	1.5/4	1.5/4	2.5/6	2.5/6	2.5/6	2.5/6	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16	
	Cord with the prefabricated tip mm ²	1/4	1/2.5	1/4	1/2.5	1.5/6	1.5/4	1.5/6	1.5/4	1.5/10	1.5/6	2.5/10	2.5/6	2.5/10	2.5/6	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16	
	Non-prefabricated-tip hard wire	1/4	1/4	1/4	1/4	1.5/6	1.5/6	1.5/6	1.5/6	1.5/6	1.5/6	2.5/10	2.5/10	2.5/10	2.5/10	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16	
Connection terminal screw size and tightening torque (N·m)			M3.5	M3.5	M3.5	M3.5	M4	M4	M4	M4	M8	M8	M8	M10	M10											
AC coil power	50Hz	Attracting (VA)	70	70	70	70	110	110	110	200	200	200	200	200												
		Holding (VA)	9	9	9.5	9.5	14	19	19	57	57	57	57	57												
		Power (W)	1.8~2.7	1.8~2.7	3~4	3~4	3~4	3~4	3~4	3~4	6~10	6~10	6~10	6~10	6~10											
Action (actuating)range			Pull-in voltage: 85%Us~110%Us; Release voltage: 20%Us~75%Us																							
Basic parameters of the auxiliary contact			AC-15: 0.95A 380V/400V DC-13: 0.15A 220V/250V Ith: 10A																							

5.2 Rated control source voltage Us and code for the NC7 ac contactor of 170A or lower

Coil voltage Us(V)	24	36	42	48	110	127	220	230	240	380	400	415	440	480	500	600	660
50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	V5	N5	R5	T5	S5	X5	Y5
60Hz	B6	C6	D6	E6	F6	G6	M6	P6	U6	Q6	V6	N6	R6	T6	S6	X6	Y6
50/60Hz	B7	C7	D7	E7	F7	G7	M7	P7	U7	Q7	V7	N7	R7	T7	S7	X7	Y7

Type			NC7-115	NC7-150	NC7-170	NC7-205	NC7-250	NC7-300	NC7-410	NC7-475	NC7-620
Rated operational current (A)	380V/400V	AC-3	115	150	170	205	250	300	410	475	620
		AC-4	115	150	150	205	250	300	410	475	620
	660V/690V	AC-3	86	107	118	137	170	235	303	353	462
		AC-4	86	107	107	137	170	235	303	353	462
Appointed free air heat generation current (A)			200	200	275	275	315	380	450	630	800
Rated insulation voltage (V)			1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage (kV)			8	8	8	8	8	8	8	8	8
Rated making capacity			Making current: 10xIe(AC-3) or 12xIe(AC-4)								
Rated breaking capacity			Making/breaking current: 8xIe(AC-3) or 10xIe(AC-4)								
Short time withstand current (10s)			920	1200	1360	1640	2000	2400	3280	3800	4960
Controllable three-phase	380V/400V	55	75	90	110	132	160	200	265	335	
squirrel-cage motor power (AC-3) kW	660V/690V	80	100	110	129	160	220	280	335	450	
Intermittent-periodic-duty	380V/400V	55	75	75	110	132	160	200	265	335	
motor power(AC-4)kW	600V/690V	80	100	100	129	160	220	280	335	450	
Frequency of operation (times/h)	AC-3	1200	1200	600	600	600	600	600	600	600	600
	Electrical life	AC-4	120	120	120	60	60	60	60	60	60
	Mechanical life	1200	1200	600	600	600	600	600	600	600	600
Electrical life (ten thousand times)	AC-3	80	80	60	60	60	60	60	60	60	60
	AC-4	2	2	1	1	1	1	1	0.6	0.6	
Mechanical life (ten thousand times)			600	600	600	600	600	600	600	600	600
Type of the fuse adapted			NT3-225	NT3-225	NT3-315	RT16-3	RT16-3	RT16-3	RT16-3	RT16-4	RT16-4
AC coil power	50Hz		115	150	170						
		Attracting (VA)	660	660	660						
		Holding (VA)	91.2	91.2	91.2						
		Power (W)	10-15	10-15	10-15						
Action (actuating)range			Pull-in voltage: 85%Us~110%Us; Release voltage: 20%Us~75%Us; NC7-250~620 Release voltage: 10%Us~75%Us								
Basic parameters of the auxiliary contact			AC-15: 0.95A 380V/400V DC-13: 0.15A 220/250V lth: 10A								

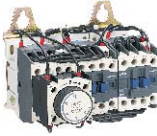
Type	NC7-115	NC7-150	NC7-170	NC7-205	NC7-250	NC7-300	NC7-410	NC7-475	NC7-620
Piece (of string, etc)	2	2	2	1	1	1	1 (2)	2	2
Cable (mm ²)	10~95	10~95	10~95	95~150	120~185	185~240	240 (150)	150~185	185~240
Copper (mm)	-	-	-	-	-	-	30X5	40X5	50X5
Bolt	M10	M10	M10	M10	M10	M10	M10	M10	M12
Tightening torque(N·m)	10	10	10	10	10	10	10	10	14

5.3 Rated control source voltage Us and code for the NC7 ac contactor (205A - 620A) product coil

Coil code Contactor type	Control voltage (V)				Power VA		Schematic drawing
	110	127	220	380	Start	Hold	
NC7-205	FG110	FG127	FG220	FG380	966	91.2	
NC7-250	FI110	FI127	FI220	FI380	1500	34.2	
NC7-300	FI110	FI127	FI220	FI380	1500	34.2	
NC7-410	FJ110	FJ127	FJ220	FJ380	1500	34.2	
NC7-475	FK110	FK127	FK220	FK380	1500	34.2	
NC7-620	FL110	FL127	FL220	FL380	1700	34.2	

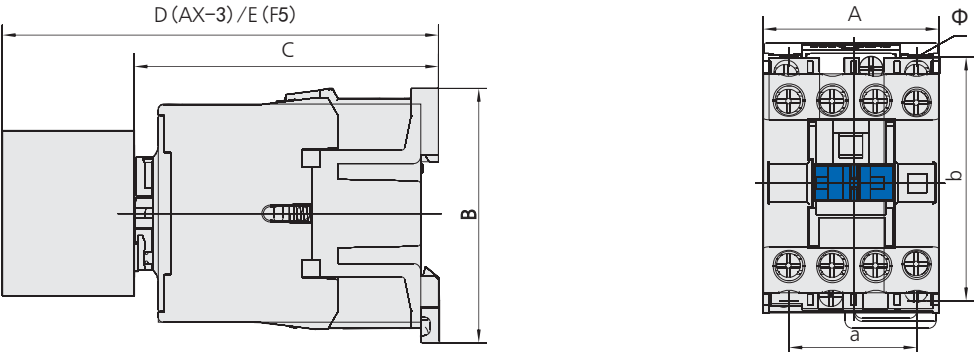
Note: Products of NC7-250 or higher are duplex winding ones.

6. Derivative products

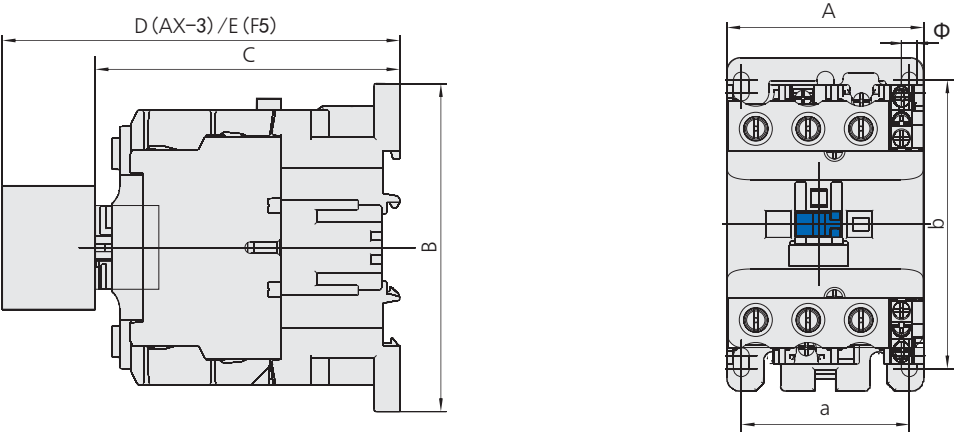
Derivative products	Contactor	Auxiliary module		Schematic drawing
Reversing contactor		+	 Mechanical interlocking mechanism	→ 
Reversing contactor		+	 Mechanical interlocking mechanism	→ 
Timing-delay contactor		+	 Air delay head	→ 
Star-delta starter		+	 +  Air delay head Auxiliary contactor block	→ 
Star-delta starter		+	 Air delay head	→ 
Magnetic starter		+	 Thermal relay	→ 

7. Overall and mounting dimensions

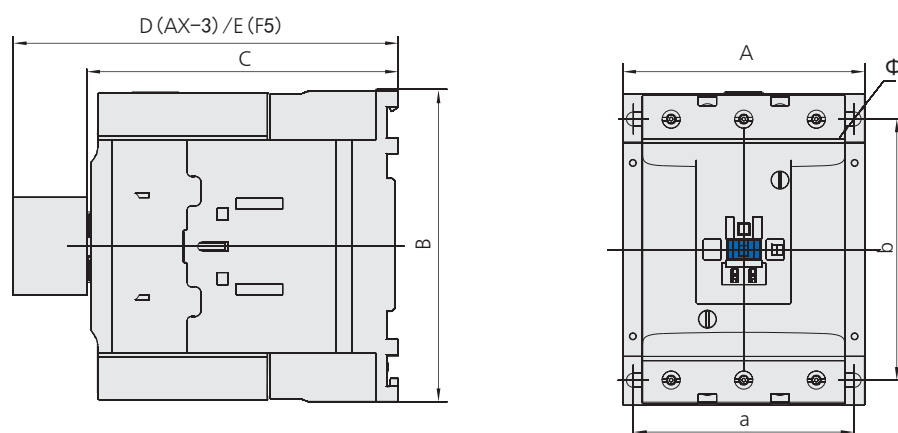
NC7 09~38



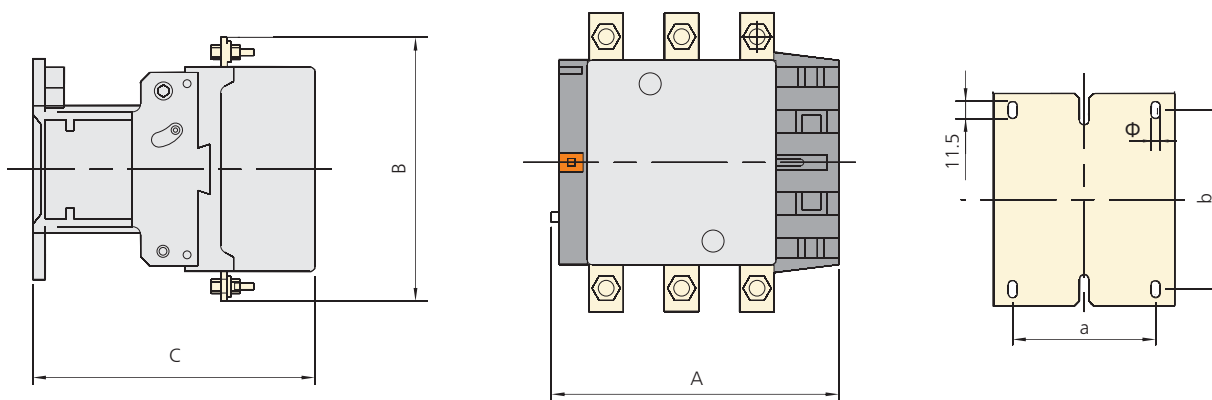
NC7 40~95



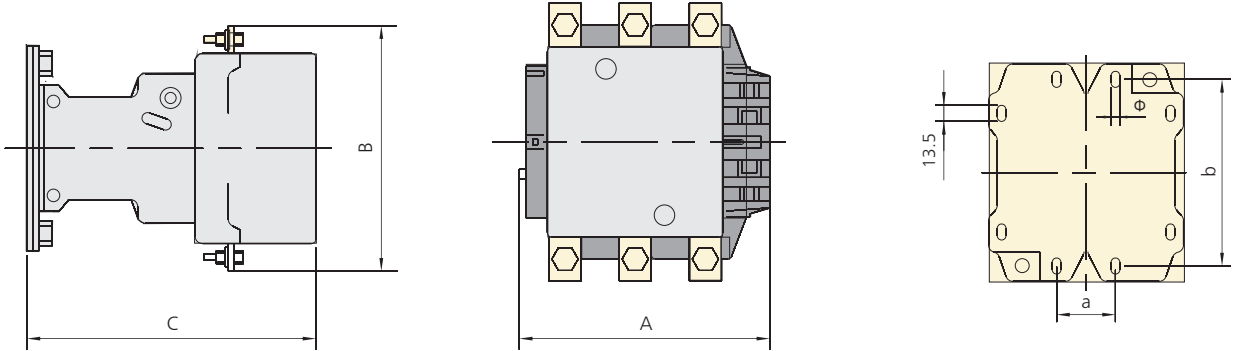
NC7 115~170



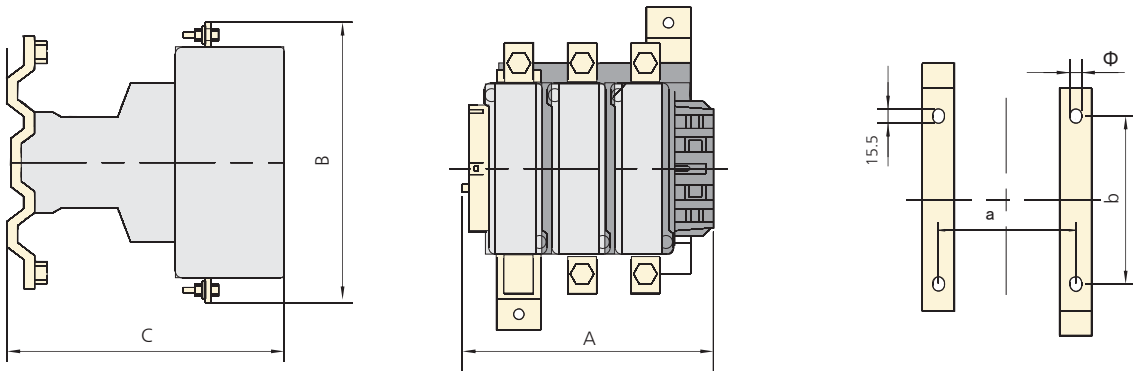
NC7 205~300



NC7 410~475



NC7 620



mm

Type	Amax	Bmax	Cmax	Dmax	Emax	a	b	φ
NC7-09~12	47	76	88	124.5	144.5	34/35	50/60/62	4.5
NC7-18	47	76	91	129.5	149.5	34/35	50/60/62	4.5
NC7-25	57	88	100	136.5	156.5	40	50/60/75	4.5
NC7-32~38	57	88	105	140.5	160.5	40	50/60/75	4.5
NC7-40~65	77	129	119	157.5	177.5	64	100~110	6
NC7-80~95	87	129	127	165.5	185.5	64	100~110	6
NC7-115~170	122	157	158	192.5	212.5	96~110	130	7
NC7-205	171	197	186			80	110~120	6.5
NC7-250	202	203	215			96	110~120	6.5
NC7-300	213	206	220			96	110~120	6.5
NC7-410	213	206	221			80	170~180	8.5
NC7-475	233	238	233			80	170~180	8.5
NC7-620	309	304	256			180	180~190	10.5

8. Ordering information

The following to be indicated when ordering:

8.1 Full name and type of the contactor

8.2 Rated control source voltage and frequency or size code of the coil

8.3 If you need to order the AX-3 auxiliary contactor block, F5 air delay head or standard rail track for the product, you should further give a clear indication; For products of 205A or higher, the auxiliary contactor blocks will not be attached for lack of indication such as the number of those blocks and how they are combined.

8.4 When the NC7 9A-170A products leave the factory, the body is not provided with the dust cap. It is hoped users will further give a clear indication when they need it.

8.5 Amount on order

8.6 The 95A-or-lower derivative N conventional products triple poles are provided in the mode of reversible wiring, so you must give clear indication for your special wiring mode.

8.7 The 205A-or-higher derivative NS conventional products triple poles are provided in the mode of reversible wiring, so you must give clear indication for your special wiring mode.

8.8 Order Sample:

10 units of NC7-0910 ac contacts, coil voltage 220V/50Hz, with 5 pieces of AX/3-22

10 units of NC7-300 ac contacts, coil voltage 220V/50Hz, with 10 pieces of AX/3-22 further attached

Mechanical interlocking mechanism to be order	Writing format for ordering
NC7-205 combined with NC7-620 Aerial installation, Mechanical interlocking mechanism, 30 sets	NJLc-GL 30 sets
Two NC7-250 combination in a mode of Horizontal installation, Mechanical interlocking mechanism, 30 sets	NJLc-HH 30 sets