

CDC6 AC Contactor

Standard: IEC60947-1, IEC 60947-4-1



Order Information



Product Name	Rated Current	Auxiliary Contact	Coil Voltage	Coil Frequency
CDC6	09	11	M	
	↓	↓	↓	↓
	09:9A ... 630:630A	11:1NO+1NC 00:0NO+0NC	B:24V ... X:440V	Default:50HZ 7:50/60HZ

AC-3,380/400V		Instant Auxiliary Contact		Reference
Rated Current (A)	Rated Power (KW)			
9	4	1	1	CDC6 09 11 □□
12	5.5	1	1	CDC6 12 11 □□
18	7.5	1	1	CDC6 18 11 □□
25	11	1	1	CDC6 25 11 □□
32	15	1	1	CDC6 32 11 □□
40	18.5	1	1	CDC6 40 11 □□
50	22	1	1	CDC6 50 11 □□
65	30	1	1	CDC6 65 11 □□
80	37	1	1	CDC6 80 11 □□
95	45	1	1	CDC6 95 11 □□
115	55	-	-	CDC6 115 00 □□
150	75	-	-	CDC6 150 00 □□
185	90	-	-	CDC6 185 00 □□
225	110	-	-	CDC6 225 00 □□
265	132	-	-	CDC6 265 00 □□
330	160	-	-	CDC6 330 00 □□
400	200	-	-	CDC6 400 00 □□
500	250	-	-	CDC6 500 00 □□
630	335	-	-	CDC6 630 00 □□

Note: "□□" means coil voltage code.

Code Table of Coil Voltage

Coil Voltage (V)	24	36	48	110	127	220	230	240	380	400	415	440
50HZ	B	C	E	F	S	M	N	U	Q	V	L	X
50/60HZ	B7	-	E7	F7	-	M7	N7	U7	Q7	V7	-	-

Note: 115-630AF refer to the actual situation.

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Order Information

Product Name	Rated Current	Directional Conatctor	Coil Voltage	Coil Frequency
CDC6	09	N	M	

09:9A ... 630:630A	N	B:24V ... X:440V	Default: 50HZ 7:50/60HZ
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AC-3,380/400V		Instant Auxiliary Contact		Reference
Rated Current (A)	Rated Power (KW)			
9	4	1	1	CDC6 09N □□
12	5.5	1	1	CDC6 12N □□
18	7.5	1	1	CDC6 18N □□
25	11	1	1	CDC6 25N □□
32	15	1	1	CDC6 32N □□
40	18.5	1	1	CDC6 40N □□
50	22	1	1	CDC6 50N □□
65	30	1	1	CDC6 65N □□
80	37	1	1	CDC6 80N □□
95	45	1	1	CDC6 95N □□
115	55	-	-	CDC6 115N □□
150	75	-	-	CDC6 150N □□
185	90	-	-	CDC6 185N □□
225	110	-	-	CDC6 225N □□
265	132	-	-	CDC6 265N □□
330	160	-	-	CDC6 330N □□
400	200	-	-	CDC6 400N □□
500	250	-	-	CDC6 500N □□
630	335	-	-	CDC6 630N □□

Note: "□□" means coil voltage code.

Code Table of Coil Voltage

Coil Voltage (V)	24	36	48	110	127	220	230	240	380	400	415	440
50HZ	B	C	E	F	S	M	N	U	Q	V	L	X
50/60HZ	B7	-	E7	F7	-	M7	N7	U7	Q7	V7	-	-

Note: 115-630AF refer to the actual situation.

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Main Technical Parameter



Model	CDC6-09	CDC6-12	CDC6-18	CDC6-25	CDC6-32	CDC6-40	CDC6-50	CDC6-65	CDC6-80	CDC6-95
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Main circuit Characteristics											
Rated Operational Current	le, AC-3 le, AC-1	9 A 20 A	12 A 20 A	18 A 32 A	25 A 40 A	32 A 50 A	40 A 60 A	50 A 80 A	65 A 80 A	80 A 125 A	95 A 125 A
Rated Isolation Voltage (Ui)		690V									
Rated Operational Voltage (Ue)		690V									
Number of Pole		3									
Rated Operational Power ClassAC-3	220/240V	2.2kW	3 kW	4 kW	5.5kW	7.5kW	11 kW	15 kW	18.5kW	22 kW	25 kW
	380/400V	4 kW	5.5kW	7.5kW	11 kW	15 kW	18.5kW	22 kW	30 kW	37 kW	45 kW
	415/440V	4 kW	5.5kW	9 kW	11 kW	15 kW	22 kW	25 kW	37 kW	45 kW	45 kW
	660/690V	5.5kW	7.5kW	10 kW	15 kW	18.5kW	30 kW	33 kW	37 kW	45 kW	45 kW
AC-3	Electric durabilities (10 thousand times)	100	100	100	100	80	80	80	80	60	60
	Operating Rate (time/h)	1200	1200	1200	1200	600	600	600	600	600	600
Mechanical Durabilities	(10 thousand times)	1000	1000	1000	1000	800	800	800	800	800	800

Coil										
Rated Control Circuit Voltage (Us)	50Hz	24V, 36V, 48V, 110V, 127V, 220V, 380V, 400V, 415V, 440V								
	50/60Hz	24V, 48V, 110V, 220V, 230V, 240V, 380V, 400V								
Allowable Control Circuit Voltage (Us)	Operation	85%~110% Us								
	Drop-out	20%~75% Us								
Coil Power	Inrush VA	70				110		200		
	Sealed VA	8				11		20		
	Heat dissipation W	1.8~2.7				3~4		6~10		

Terminal Wiring Ability											
Flexible Wire Without Terminal Block	1 pc (Section of Connecting Conduction mm ²)	1~4	1~4	1.5~6	1.5~10	2.5~10	2.5~25	2.5~25	2.5~25	4~50	4~50
	2 pcs (Section of Connecting Conduction 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
Flexible Wire With Terminal Block	1 pc (Section of Connecting Conduction mm ²)	1~4	1~4	1~6	1~6	1~10	2.5~25	2.5~25	2.5~25	4~50	4~50
	2 pcs (Section of Connecting Conduction mm ²)	1~2.5	1~2.5	1~4	1~4	1.5~6	2.5~10	2.5~10	2.5~10	4~16	4~16
Fixed Wire Without Terminal Block	1 pc (Section of Connecting Conduction mm ²)	1~4	1~4	1.5~6	1.5~6	1.5~10	2.5~25	2.5~25	2.5~25	4~50	4~50
	2 pcs (Section of Connecting Conduction 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

Auxiliary Contact										
Rated Thermal Current (Ith)	A	10								
Rated Operational Voltage (Ue)	AC V	400								
	DC V	230								
Rated Control Capacity	AC-15 VA	360								
	DC-13 W	33								

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Contactor Type	CDC6-115	CDC6-150	CDC6-185	CDC6-225	CDC6-265	CDC6-330	CDC6-400	CDC6-500	CDC6-630
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Main circuit Characteristics

Rated Operational Current	Ie, AC-3	115 A	150 A	185 A	225 A	265 A	330 A	400 A	500 A	630 A
	Ie, AC-1	200 A	200 A	275 A	275 A	315 A	380 A	450 A	630 A	800 A
Rated Isolation Voltage (Ui)		1000V								
Rated Operational Voltage (Ue)										
Number of Pole										
Rated Operational Power Class AC-3	220/240V	30 kW	40 kW	55 kW	63 kW	75 kW	100kW	110kW	147kW	200kW
	380/400V	55 kW	75 kW	90kW	110kW	132kW	160kW	200kW	250kW	335kW
	415/440V	59 kW	80 kW	100kW	110kW	140kW	180kW	220kW	280kW	375kW
	660/690V	80 kW	100kW	110kW	129kW	160kW	220kW	280kW	335kW	450kW
AC-3	Electric durabilities (10 thousand times)	120	120	100	100	80	80	80	80	80
	Operating Rate (time/h)	600	600	600	600	600	600	300	300	300
Mechanical Durabilities	(10 thousand times)	1000	1000	600	600	600	600	600	600	600

Coil

Rated Control Circuit Voltage (Us)	50Hz	110V, 127V, 220V, 230V, 240V, 380V, 400V, 440V								
	50/60Hz	110V, 220V, 380V (115-225AF)								
Allowable Control Circuit Voltage (Us)	Operation Drop-out	85%~110% Us 20%~75% Us								
Coil Power	Inrush VA	550		800		1200		1200	1250	1650
	Sealed VA	45		55		13		20	24	22
	Heat dissipation W	16		24		12		14	18	20

Terminal Wiring Ability

Fixed Wire Without Terminal Block	1 pc (Section of Connecting Conduction mm²)	95	120	150	185	240	240	-	-	-
	2 pcs (Section of Connecting Conduction mm²)	-	-	-	-	-	-	150	240	-
Copper Bar	2 pcs (Size mm²)	20*3	25*3	25*3	32*4	32*4	30*5	30*5	40*5	60*5

Auxiliary Contact

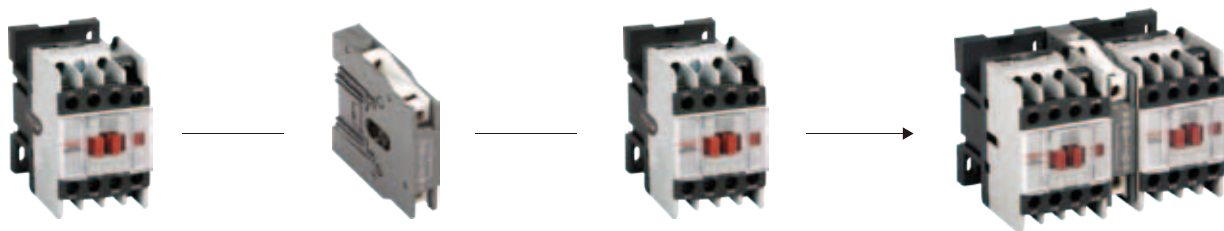
Rated Thermal Current (Ith)	A	10
Rated Operational Voltage (Ue)	AC V	400
	DC V	230
Rated Control Capacity	AC-15 VA	360
	DC-13 W	33

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Directional Contactor



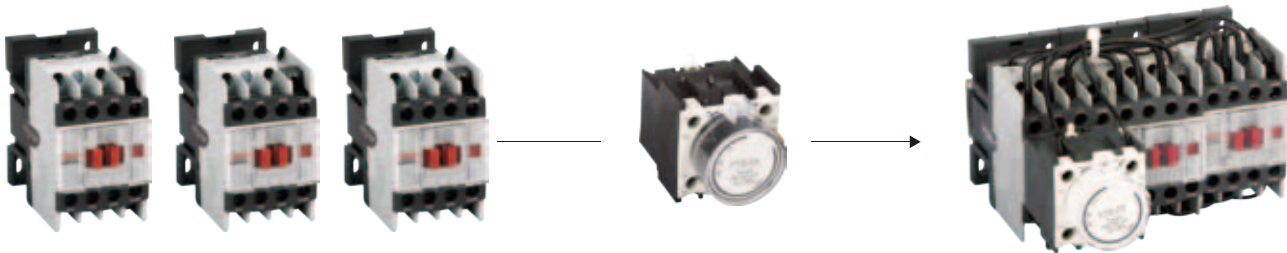
Directional Contactor (Horizontal Installation)	Rated Capacity (kW) AC-3		Rated Current (A) AC-3		Rated Thermal Current (A) AC-1
	400V	690V	400V	690V	
CDC6-09N	4	5.5	9	6.6	20
CDC6-12N	5.5	7.5	12	8.9	20
CDC6-18N	7.5	10	18	12	32
CDC6-25N	11	15	25	18	40
CDC6-32N	15	18.5	32	21	50
CDC6-40N	18.5	30	40	34	60
CDC6-50N	22	33	50	39	80
CDC6-65N	30	37	65	42	80
CDC6-80N	37	45	80	49	125
CDC6-95N	45	45	95	55	125
CDC6-115N	55	80	115	86	200
CDC6-150N	75	100	150	108	200
CDC6-185N	90	110	185	118	275
CDC6-225N	110	129	225	137	275
CDC6-265N	132	160	265	170	315
CDC6-330N	160	220	330	235	380
CDC6-400N	200	280	400	303	450
CDC6-500N	250	335	500	353	630
CDC6-630N	335	450	630	462	800

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Option for Star Delta Starter



Contactor (CDC6-09~95)

Max. Starting Frequency, 30 time/h; Max. Starting Time, 30s							
Motor			Contactor	Contactor	Contactor	Thermal Overload Relay	
Class AC-3 50Hz 3-Phase Electromotor			Straight Connection	Delta Connection	Star Connection		
Delta Connection			KM2	KM3	KM1(3)		
P (KW)	In (A)	IrD (A)	Type	Type	Type	Type	Setting Range (A)
1.5	3.5	2	CDC6-09	CDC6-09	CDC6-09	CDR6-18	1.8~2.5
2.2	5	3	CDC6-09	CDC6-09	CDC6-09	CDR6-18	2.5~3.6
3	6.6	4	CDC6-09	CDC6-09	CDC6-09	CDR6-18	3.5~4.8
4	8.5	5	CDC6-09	CDC6-09	CDC6-09	CDR6-18	4.5~6.3
5.5	11.5	6	CDC6-09	CDC6-09	CDC6-09	CDR6-18	5~7
7.5	15.5	9	CDC6-12	CDC6-12	CDC6-09	CDR6-18	9~12
9	18.5	11	CDC6-18	CDC6-18	CDC6-12	CDR6-18	11~15
11	22	13	CDC6-18	CDC6-18	CDC6-12	CDR6-18	11~15
15	30	16	CDC6-25	CDC6-25	CDC6-18	CDR6-32	14~18
18.5	37	22	CDC6-25	CDC6-25	CDC6-18	CDR6-32	18~25
22	44	26	CDC6-32	CDC6-32	CDC6-25	CDR6-32	23~32
30	60	35	CDC6-40	CDC6-40	CDC6-32	CDR6-95	30~40
37	72	40	CDC6-50	CDC6-50	CDC6-40	CDR6-95	37~50
45	85	47	CDC6-65	CDC6-65	CDC6-50	CDR6-95	37~50
55	105	58	CDC6-80	CDC6-80	CDC6-65	CDR6-95	55~70
75	138	78	CDC6-95	CDC6-95	CDC6-80	CDR6-95	63~80

CDC6 AC Contactor

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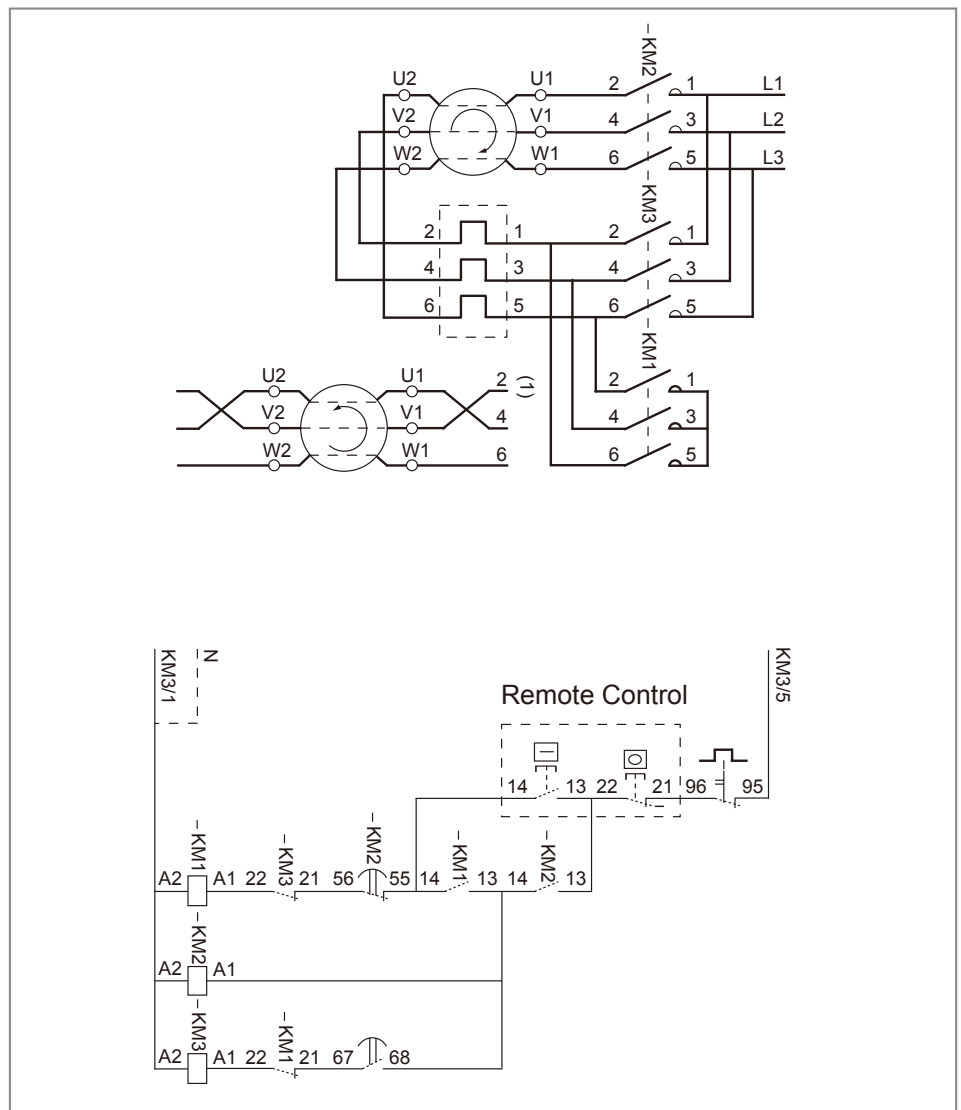


Option for Star-Delta Starter

Environmental Requirements

- Ambient Temperature:
-5°C~+40°C
- Altitude: ≤2000m
- Pollution Level: III
- No obvious shaking and shock vibration

Wiring Diagram for Star-Delta Starter



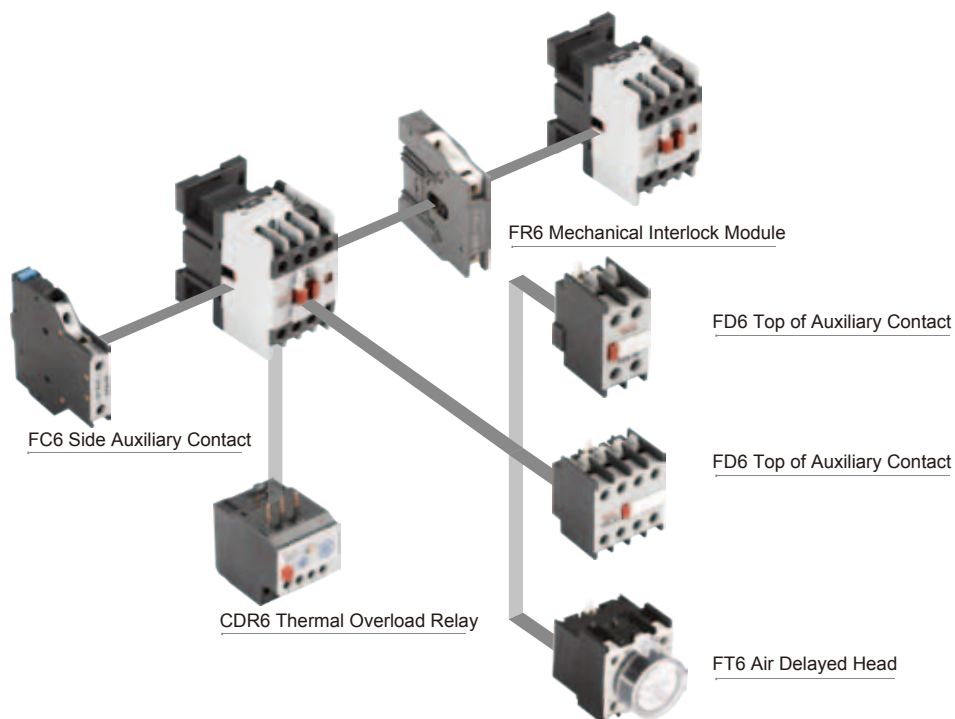
CDC6 AC Contactor

Standard: IEC60947-1, IEC 60947-4-1



Accessories

CDC6-9~95A Contactor Accessories



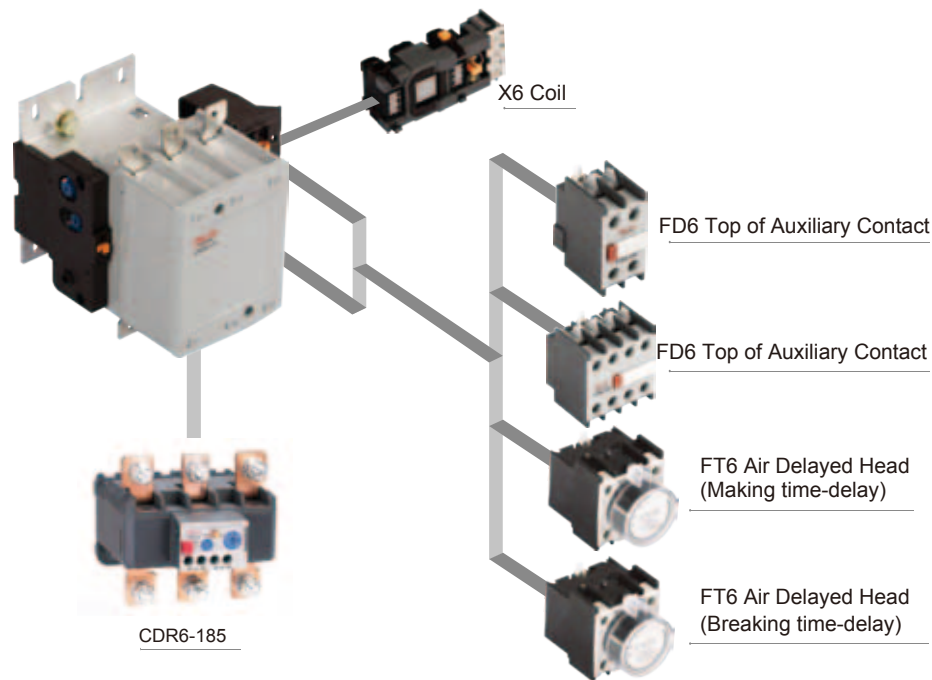
Top of Auxiliary Contact		2 poles: FD6-11, FD6-20, FD6-02 4 poles: FD6-22, FD6-13, FD6-31, FD6-40, FD6-04															
Side Auxiliary Contact		2 poles: FC6-11, FC6-20, FC6-02															
Air Delayed Head		Making time-delay: FT6-20, FT6-22, FT6-24 Breaking time-delay: FT6-30, FT6-32, FT6-34															
Mechanical Interlocking module		FR6-32 Adaptive to Product of 9-32A, Horizontal Installation FR6-95 Adaptive to Product of 40-95A, Horizontal Installation															
X6 Coil		Order reference: X6+AF+Us+frequency For example: X632N7															
Thermal Overload Relay		<table> <tr> <td>CDR6-18</td><td>CDR6-32</td><td>CDR6-95</td></tr> <tr> <td>0.10-0.15A</td><td>6.3-9A</td><td>30-40A</td></tr> <tr> <td>0.12-0.18A</td><td>9-12A</td><td>37-50A</td></tr> <tr> <td>...</td><td>...</td><td>...</td></tr> <tr> <td>14-18A</td><td>23-32A</td><td>80-95A</td></tr> </table>	CDR6-18	CDR6-32	CDR6-95	0.10-0.15A	6.3-9A	30-40A	0.12-0.18A	9-12A	37-50A	...	...	...	14-18A	23-32A	80-95A
CDR6-18	CDR6-32	CDR6-95															
0.10-0.15A	6.3-9A	30-40A															
0.12-0.18A	9-12A	37-50A															
...	...	...															
14-18A	23-32A	80-95A															

CDC6 AC Contactor

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CDC6-115~630A Contactor Accessories



Top of Auxiliary Contact		2 poles: FD6-11, FD6-20, FD6-02 4 poles: FD6-22, FD6-13, FD6-31, FD6-40, FD6-04	
Side Auxiliary Contact		No Side Auxiliary Contact	
Air Delayed Head		Making time-delay: FT6-20, FT6-22, FT6-24 Breaking time-delay: FT6-30, FT6-32, FT6-34	
Mechanical Interlocking module		Horizontal Installation and Vertical Installation	
X6 Coil		Spare parts, X6-115-630 (Voltage AC:230V, 400V for Option)	
Main Contact		Spare parts, MC6-115~630	
Thermal Overload Relay		CDR6-185 48-65A 55-70A ... 150-185A	CDR6-630F 145-200A 180-250A ... 460-630A

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Auxiliary Contact



Installation Position	Pole	Composition		Contact Point Layout	Reference
		NO	NC		
Top	2	0	2		FD6 02
		1	1		FD6 11
		2	0		FD6 20
	4	0	4		FD6 04
		1	3		FD6 13
		2	2		FD6 22
		3	1		FD6 31
		4	0		FD6 40
		3NO1NC			
		4NO			
Side	2	0	2		FD6 02
		1	1		FD6 11
		2	0		FD6 20

FT6 Air Delayed Contact



Installation Position	Delay Type	Wiring Diagram	Delay Range	Reference
Top	Making time-delay		0.1-3s	FT6 20
			0.1-30s	FT6 22
			10-180s	FT6 24
	Breaking time-delay		0.1-3s	FT6 30
			0.1-30s	FT6 32
			10-180s	FT6 34

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Mechanical Interlock Module

Horizontal Installation		
Interlock Method	Contact Type	Reference
Mechanical Interlock	CDC6-9~32	FR6 32 H
Electricity Interlock	CDC6-40~95	FR6 95 H
Interlock without Electricity	CDC6-115~150	FR6 FF H
	CDC6-185~225	FR6 GG H
	CDC6-265~330	FR6 HH H
	CDC6-400~500	FR6 KK H
	CDC6-630	FR6 LL H
Vertical Installation (Mechanical without Electricity)		
Contact Type		Interlock Device Reference
Bottom	Top	
CDC6-115	CDC6-115	FR6 FF V
or	CDC6-150	FR6 FF V
CDC6-150	CDC6-185	FR6 FG V
	CDC6-225	FR6 FG V
	CDC6-265	FR6 FH V
	CDC6-330	FR6 FH V
	CDC6-400	FR6 FH V
	CDC6-500	FR6 FH V
	CDC6-630	FR6 FL V
CDC6-185	CDC6-185	FR6 GG V
or	CDC6-225	FR6 GG V
CDC6-225	CDC6-265	FR6 GK V
	CDC6-330	FR6 GK V
	CDC6-400	FR6 GK V
	CDC6-500	FR6 GK V
	CDC6-630	FR6 GL V
CDC6-265	CDC6-265	FR6 HK V
or	CDC6-330	FR6 HK V
CDC6-330	CDC6-400	FR6 HK V
	CDC6-500	FR6 HK V
	CDC6-630	FR6 HL V
CDC6-400	CDC6-400	FR6 HK V
	CDC6-500	FR6 HK V
	CDC6-630	FR6 HL V
CDC6-500	CDC6-500	FR6 HK V
	CDC6-630	FR6 HL V
CDC6-630	CDC6-630	FR6 LL V

Note: Vertical installation adopts mechanical Interlock Device equipped with the interlock without electricity

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X6 Coil



Adaptive Contactor	Coil Voltage	Reference
115A-150A	220V	X6 150 M
	380V	X6 150 Q
185A-225A	220V	X6 225 M
	380V	X6 225 Q
265A-330A	220V	X6 330 M
	380V	X6 330 Q
400A	220V	X6 400 M
	380V	X6 400 Q
500A	220V	X6 500 M
	380V	X6 500 Q
630A	220V	X6 630 M
	380V	X6 630 Q

MC6 Main Contact



Number of Pole	Contactor Current Specification	Reference
3	115A	MC6 115
	150A	MC6 150
	185A	MC6 185
	225A	MC6 225
	265A	MC6 265
	330A	MC6 330
	400A	MC6 400
	500A	MC6 500
	630A	MC6 630

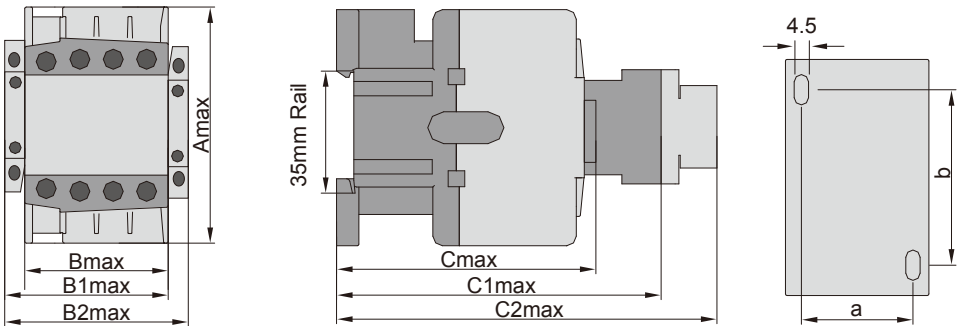
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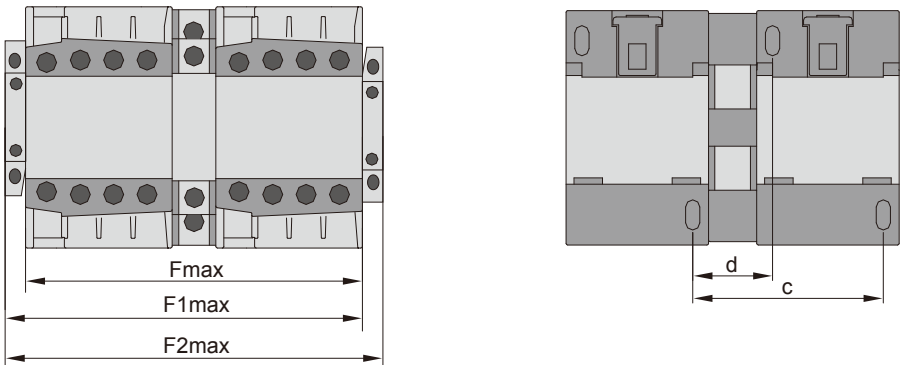
Overall Dimension of Installation

CDC6-9~32



CDC6	9/12	18	25/32
A	74.5	74.5	80
B (without accessory)	45.5	45.5	56.5
B1 (with a FC6)	58	58	69
B2 (with two FC6)	71	71	82
C (without accessory)	84	89	99.5
C1 (with FD6)	116	122	132
C2 (with FT6)	141	145	156
a	35	35	40
b	50/60	50/60	50/70

CDC6-9~32N



CDC6	9N/12N	18N	25N/32N
F (without accessory)	108	108	132
F1 (with a FC6)	119	119	143
F2 (with two FC6)	131	131	155
c	60	60	71.5
d	25	25	31.5

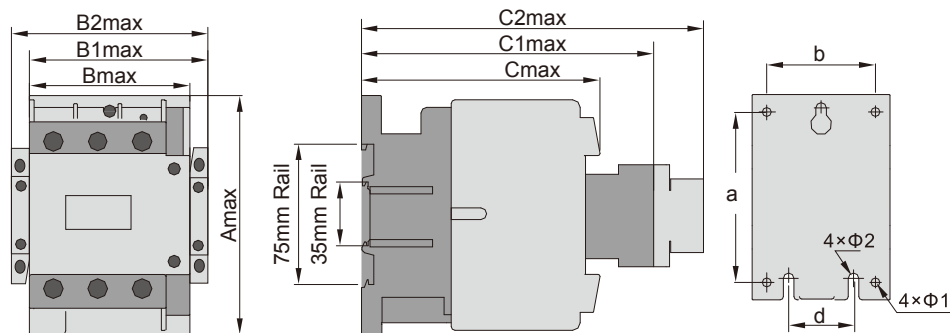
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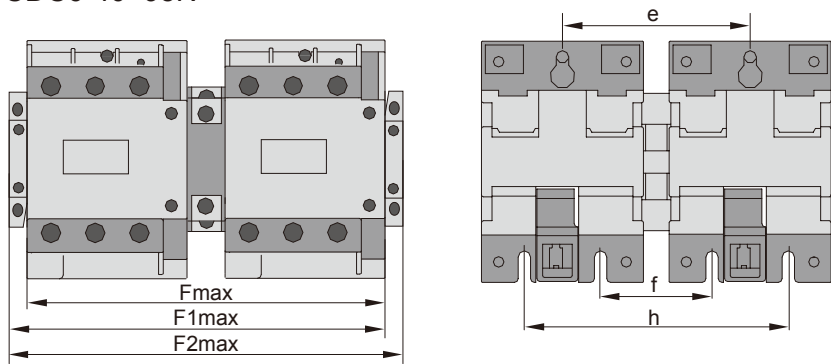
Overall Dimension of Installation

CDC6-40~95



CDC6	40/50/65	80/95
A	127	127
B (without accessory)	75	85
B1 (with a FC6)	89	99
B2 (with two FC6)	102	112
C (without accessory)	118.5	127.5
C1 (with FD6)	150	160
C2 (with FT6)	175	185
a	105	105
b	59	67
c	105	105
d	40	40
Φ1	5.5	5.5
Φ2	6.5	6.5

CDC6-40~95N



CDC6	40N/50N/65N	80N/95N
F (without accessory)	169	190
F1 (with a FC6)	182	203
F2 (with two FC6)	195	216
e	90	100.5
f	50	60.5
h	130	140

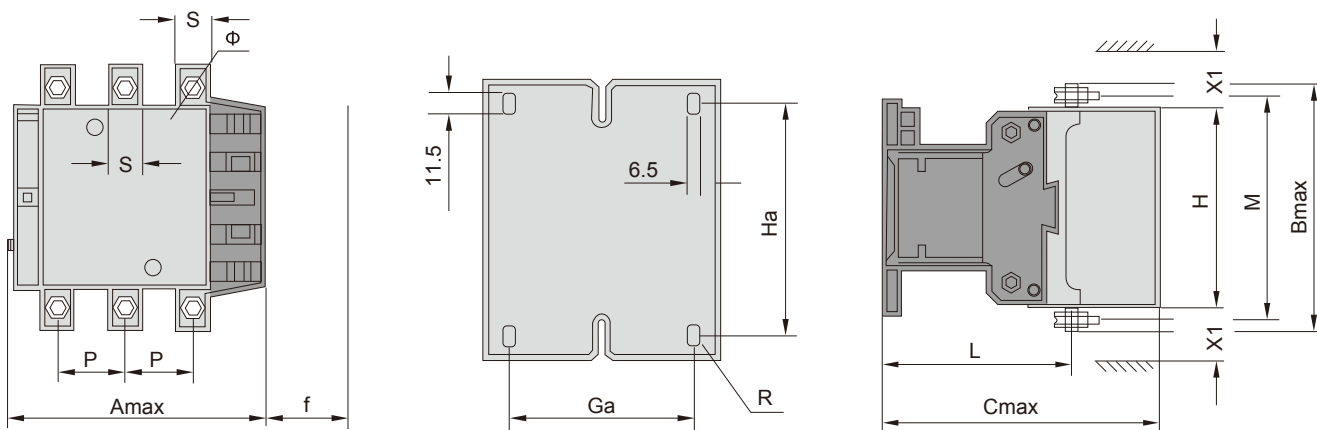
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Standard: IEC60947-1, IEC 60947-4-1



Overall Dimension of Installation

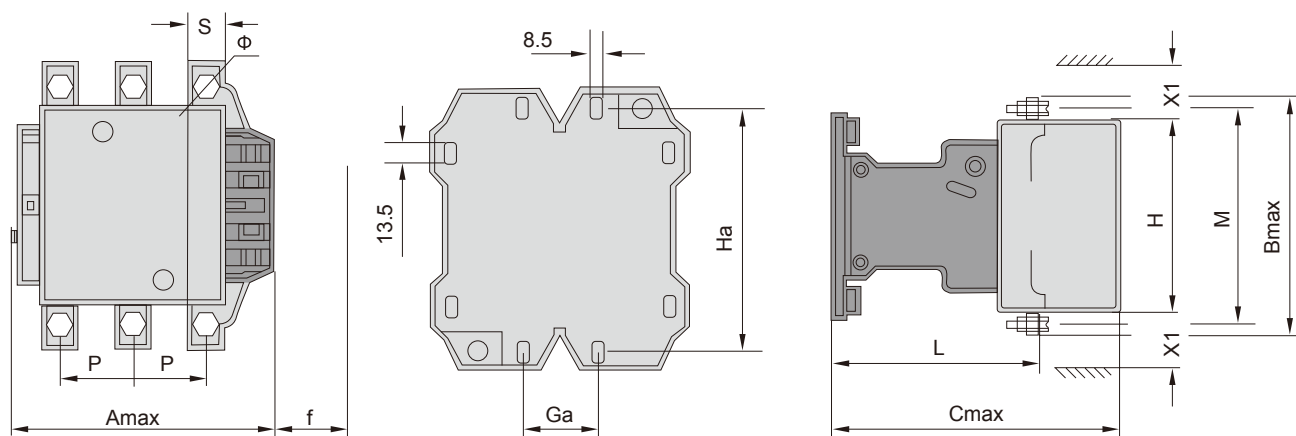
CDC6-115-330



Type	Amax	Bmax	Cmax	P	S	ϕ	f	M	H	L	X1 (200-550V)	X1 (600-1000V)	Ga	Ha
CDC6-115	167	163	172	37	20	M6	131	147	124	107	10	15	80	110~120
CDC6-150	167	171	172	40	20	M8	131	150	124	107	10	15	80	110~120
CDC6-185	171	174	183	40	20	M8	131	154	127	113.5	10	15	80	110~120
CDC6-225	171	197	183	48	25	M10	131	172	127	113.5	10	15	80	110~120
CDC6-265	202	203	215	48	25	M10	147	178	147	141	10	15	96	110~120
CDC6-330	213	206	220	48	25	M10	147	181	158	145	10	15	96	110~120

Note: "f" reserved space to ensure draw-out coil can take out easily.

CDC6-400~500



Type	Amax	Bmax	Cmax	P	S	ϕ	f	M	H	L	X1 (200-550V)	X1 (600-1000V)	Ga	Ha
CDC6-400	213	206	220	48	25	M10	146	181	158	145	15	20	80	170~180
CDC6-500	223	233	233	55	30	M10	150	208	172	146	15	20	80	170~180

Note: "f" reserved space to ensure draw-out coil can take out easily.

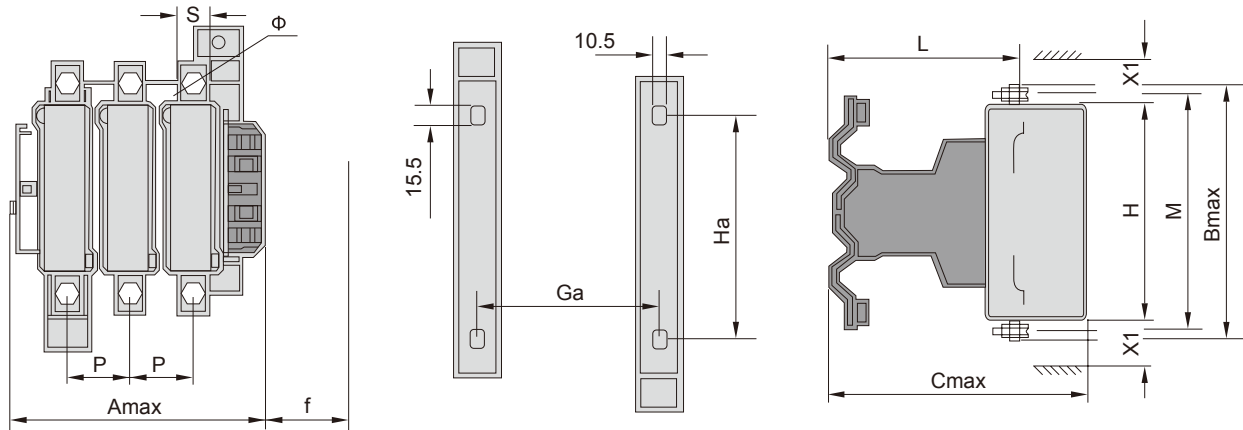
CDC6 AC Contactor

Standard: IEC60947-1, IEC 60947-4-1



Overall Dimension of Installation

CDC6-630

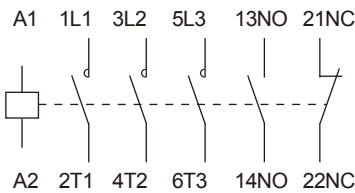


Type	Amax	Bmax	Cmax	P	S	Φ	f	M	H	L	X1 (200-550V)	X1 (600-1000V)	Ga	Ha
CDC6-630	309	304	256	80	40	M12	181	264	202	155	20	30	180	180~190

Note: "f" reserved space to ensure draw-out coil can take out easily.

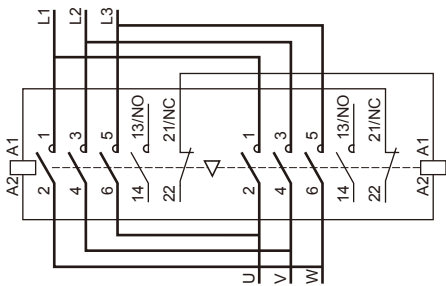
Wiring Diagram

CDC6-09~95

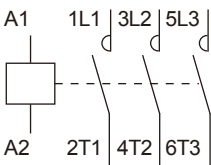


CDC6-09N~95N

(Horizontal Installation, Mechanical +Electrical Interlock)



CDC6-115~630



CDC6-115N~630N

(Horizontal Installation, Mechanical Interlock)

