







Product List

HDC6 AC Contactor




Rated operational Current	AC-3, 400V	9A	12A	18A	25A	32A	40A	50A	65A	80A	95A
Power of controlled Three-Phase cage motor	AC-3, 400V	4kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW
	AC-3, 690V	5.5kW	7.5kW	10kW	15kW	18.5kW	30kW	33kW	37kW	45kW	45kW


Accessories and Spare Parts

Top of Auxiliary Contact		2 poles: HFD6-11,HFD6-20,HFD6-02 4 poles: HFD6-22,HFD6-13,HFD6-31,HFD6-40,HFD6-04
Side Auxiliary Contact		2 poles: HFC6-11,HFC6-20,HFC6-02
Air Delayed Head		Making time-delay: HFT6-20,HFT6-22,HFT6-24 Breaking time-delay: HFT6-30,HFT6-32,HFT6-34
Mechanical Interlocking module		HFR6-32 Adaptive to Product of 9-32A, Horizontal Installation HFR6-95 Adaptive to Product of 40-95A, Horizontal Installation
HX6 Coil		Order reference: HX6+AF+Us+frequency For example: HX632N7
Main Contact		Not applicable

HDR6 Thermal Overload Relay

Thermal Overload Relay		HDR6-18	HDR6-32	HDR6-95
		0.10-0.15A	6.3-9A	30-40A
		0.12-0.18A	9-12A	37-50A
	
		14-18A	23-32A	80-95A

HDZ6 Contactor Relay

Contactor Relay		HDZ6-32, HDZ6-41
-----------------	---	------------------



115A	150A	185A	225A	265A	330A	400A	500A	630A
55kW	75kW	90kW	110kW	132kW	160kW	200kW	250kW	335kW
80kW	100kW	110kW	129kW	160kW	220kW	280kW	335kW	450kW

2 poles: HFD6-11,HFD6-20,HFD6-02
 4 poles: HFD6-22,HFD6-13,HFD6-31,HFD6-40,HFD6-04

No Side Auxiliary Contact

Making time-delay: HFT6-20,HFT6-22,HFT6-24
 Breaking time-delay: HFT6-30,HFT6-32,HFT6-34

Horizontal Installation and Vertical Installation

Spare parts, HX6-115-630(Voltage AC:230V,400V for Option)

Spare parts, HMC6-115~630

HDR6-185	HDR6-630F
48-65A	145-200A
55-70A	180-250A
...	...
150-185A	460-630A

HDC6 AC Contactor

Order Information



Product Name	Rated Current	Auxiliary Contact	Coil Voltage	Coil Frequency
HDC6	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)	1	2	
9	4	1	1	HDC6 09 11 □□
12	5.5	1	1	HDC6 12 11 □□
18	7.5	1	1	HDC6 18 11 □□
25	11	1	1	HDC6 25 11 □□
32	15	1	1	HDC6 32 11 □□
40	18.5	1	1	HDC6 40 11 □□
50	22	1	1	HDC6 50 11 □□
65	30	1	1	HDC6 65 11 □□
80	37	1	1	HDC6 80 11 □□
95	45	1	1	HDC6 95 11 □□
115	55	-	-	HDC6 115 00 □□
150	75	-	-	HDC6 150 00 □□
185	90	-	-	HDC6 185 00 □□
225	110	-	-	HDC6 225 00 □□
265	132	-	-	HDC6 265 00 □□
330	160	-	-	HDC6 330 00 □□
400	200	-	-	HDC6 400 00 □□
500	250	-	-	HDC6 500 00 □□
630	335	-	-	HDC6 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	-	-	Q	V	L	X
50/60HZ	B7	-	E7	F7	-	M7	N7	U7	Q7	V7	-	-

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

HDC6-N Directional AC Contactor

Order Information



Product Name	Rated Current	Directional Conactor	Coil Voltage	Coil Frequency
HDC6	09	N	M	
	↓	↓	↓	↓
	09:9A ... 630:630A	N	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	HDC6 09N □□
12	5.5	1	1	HDC6 12N □□
18	7.5	1	1	HDC6 18N □□
25	11	1	1	HDC6 25N □□
32	15	1	1	HDC6 32N □□
40	18.5	1	1	HDC6 40N □□
50	22	1	1	HDC6 50N □□
65	30	1	1	HDC6 65N □□
80	37	1	1	HDC6 80N □□
95	45	1	1	HDC6 95N □□
115	55	-	-	HDC6 115N □□
150	75	-	-	HDC6 150N □□
185	90	-	-	HDC6 185N □□
225	110	-	-	HDC6 225N □□
265	132	-	-	HDC6 265N □□
330	160	-	-	HDC6 330N □□
400	200	-	-	HDC6 400N □□
500	250	-	-	HDC6 500N □□
630	335	-	-	HDC6 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	-	-	Q	V	L	X
50/60HZ	B7	-	E7	F7	-	M7	N7	U7	Q7	V7	-	-

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

HDC6 AC Contactor

Main Technical Parameter



Model	HDC6-09	HDC6-12	HDC6-18	HDC6-25	HDC6-32	HDC6-40	HDC6-50	HDC6-65	HDC6-80	HDC6-95
-------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

Main circuit Characteristics											
Rated Operational Current (AC380V/400V)	le, AC-3	9 A	12 A	18 A	25 A	32 A	40 A	50 A	65 A	80 A	95 A
	le, AC-4	3.5A	8.9A	12 A	18 A	21 A	34 A	39A	42 A	49 A	55 A
	le, AC-1	20 A	20 A	32 A	40 A	50 A	60 A	80 A	80 A	125 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	220									
Rated Control	AC-15 VA	360									

Motor Control & Protection



Contactor Type	HDC6-115	HDC6-150	HDC6-185	HDC6-225	HDC6-265	HDC6-330	HDC6-400	HDC6-500	HDC6-630
----------------	----------	----------	----------	----------	----------	----------	----------	----------	----------

Main circuit Characteristics

Rated Operational Current (AC380V/400V)	le, AC-3	115 A	150 A	185 A	225 A	265 A	330 A	400 A	500 A	630 A
	le, AC-4	52 A	60 A	79 A	85 A	105 A	117 A	138 A	147 A	188 A
	le, AC-1	200 A	250 A	275 A	315 A	350 A	400 A	500 A	630 A	800 A
Rated Isolation Voltage (Ui)		1000V								
Rated Operational Voltage (Ue)		690V								
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	85%~110% Us								
	Drop-out	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 mm ²)	95	120	150	185	240	240	-	-	-
	2 pcs (Section of Connecting Conduction mm ²)	-	-	-	-	-	-	150	240	-
Copper Bar	2 pcs (Size mm ²)	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	220
Rated Control	AC-15 VA	360

HDC6 AC Contactor

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	
HDC6-09N	4	5.5	9	6.6	20
HDC6-12N	5.5	7.5	12	8.9	20
HDC6-18N	7.5	10	18	12	32
HDC6-25N	11	15	25	18	40
HDC6-32N	15	18.5	32	21	50
HDC6-40N	18.5	30	40	34	60
HDC6-50N	22	33	50	39	80
HDC6-65N	30	37	65	42	80
HDC6-80N	37	45	80	49	125
HDC6-95N	45	45	95	55	125
HDC6-115N	55	80	115	86	200
HDC6-150N	75	100	150	108	200
HDC6-185N	90	110	185	118	275
HDC6-225N	110	129	225	137	275
HDC6-265N	132	160	265	170	315
HDC6-330N	160	220	330	235	380
HDC6-400N	200	280	400	303	450
HDC6-500N	250	335	500	353	630
HDC6-630N	335	450	630	462	800

HDC6 AC Contactor

Option for Star Delta Starter



Contactor (HDC6-09~95)

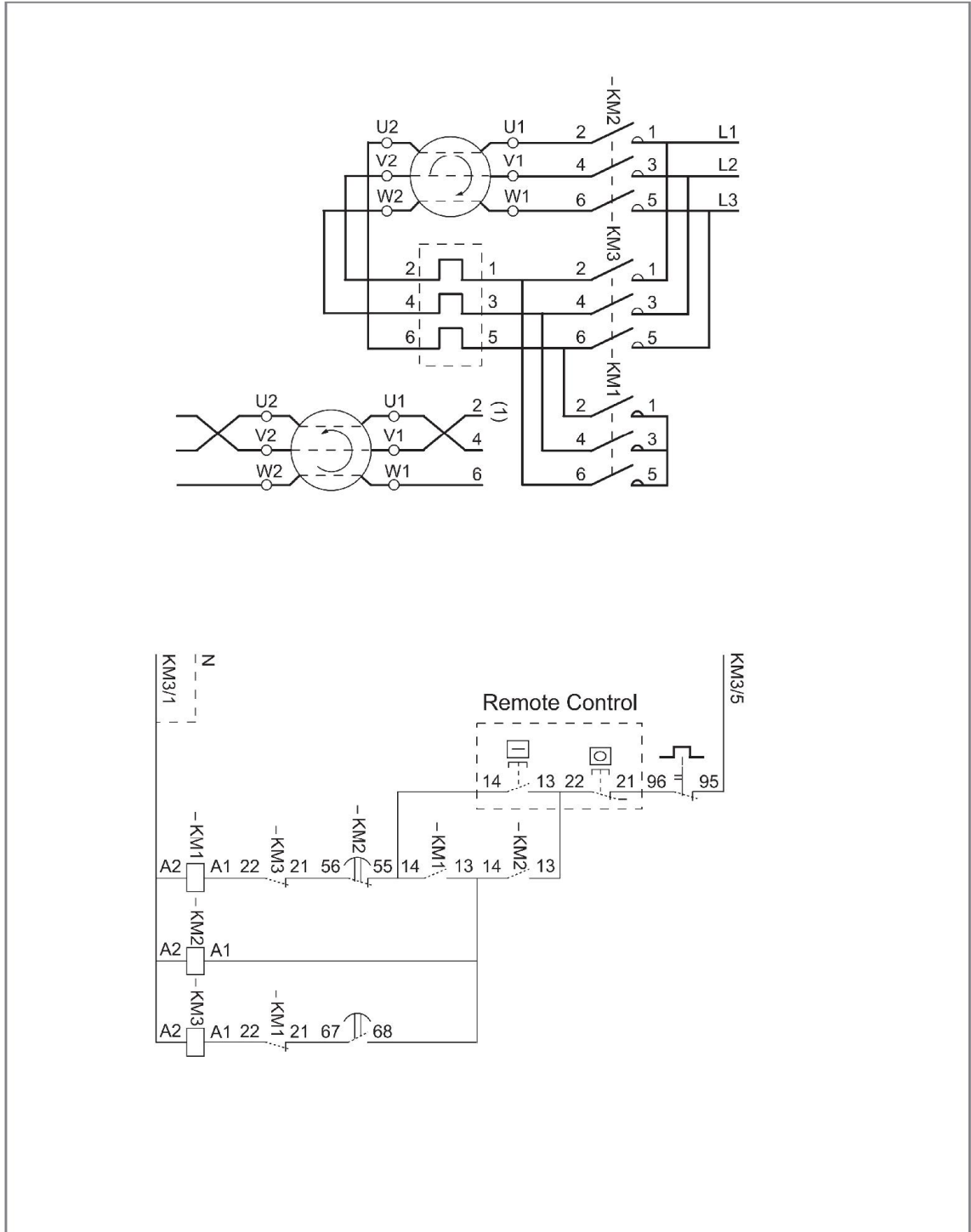
Max. Starting Frequency, 30 time/h; Max. Starting Time, 30s							
Motor			Contactor	Contactor	Contactor	Thermal Overload Relay	
Class AC-3 50Hz 3-Phase Electromotor Delta Connection			Straight Connection KM2	Delta Connection KM3	Star Connection KM1(3)		
P (KW)	In (A)	I _{rD} (A)	Type	Type	Type	Type	Setting Range (A)
1.5	3.5	2	HDC6-09	HDC6-09	HDC6-09	HDR6-18	1.8~2.5
2.2	5	3	HDC6-09	HDC6-09	HDC6-09	HDR6-18	2.5~3.6
3	6.6	4	HDC6-09	HDC6-09	HDC6-09	HDR6-18	3.5~4.8
4	8.5	5	HDC6-09	HDC6-09	HDC6-09	HDR6-18	4.5~6.3
5.5	11.5	6	HDC6-09	HDC6-09	HDC6-09	HDR6-18	5~7
7.5	15.5	9	HDC6-12	HDC6-12	HDC6-09	HDR6-18	9~12
9	18.5	11	HDC6-18	HDC6-18	HDC6-12	HDR6-18	11~15
11	22	13	HDC6-18	HDC6-18	HDC6-12	HDR6-18	11~15
15	30	16	HDC6-25	HDC6-25	HDC6-18	HDR6-32	14~18
18.5	37	22	HDC6-25	HDC6-25	HDC6-18	HDR6-32	18~25
22	44	26	HDC6-32	HDC6-32	HDC6-25	HDR6-32	23~32
30	60	35	HDC6-40	HDC6-40	HDC6-32	HDR6-95	30~40
37	72	40	HDC6-50	HDC6-50	HDC6-40	HDR6-95	37~50
45	85	47	HDC6-65	HDC6-65	HDC6-50	HDR6-95	37~50
55	105	58	HDC6-80	HDC6-80	HDC6-65	HDR6-95	55~70
75	138	78	HDC6-95	HDC6-95	HDC6-80	HDR6-95	63~80

Motor Control & Protection

HDC6 AC Contactor

Option for Star-Delta Starter

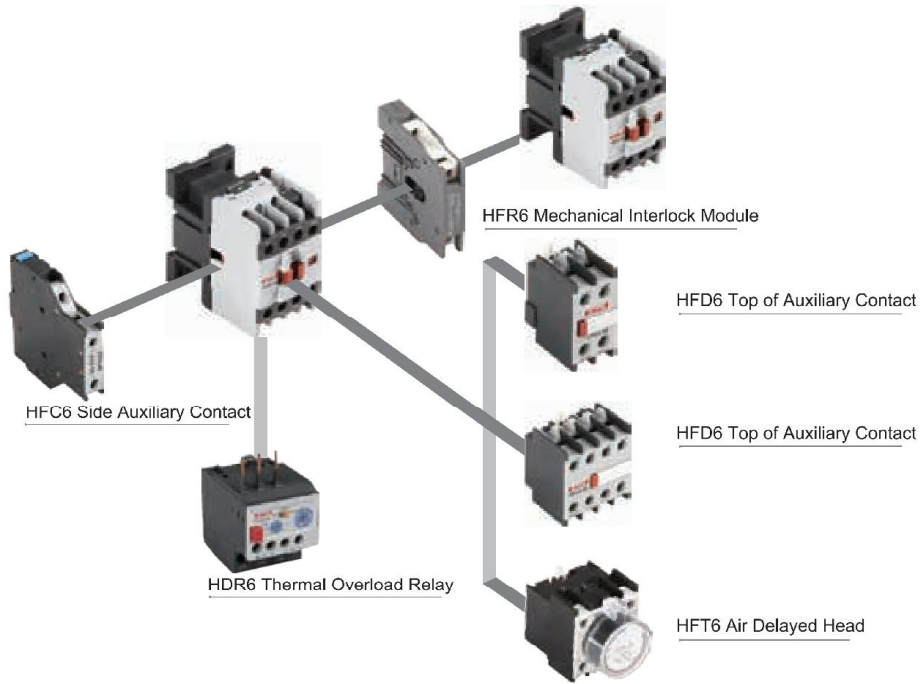
Wiring Diagram for Star-Delta Starter



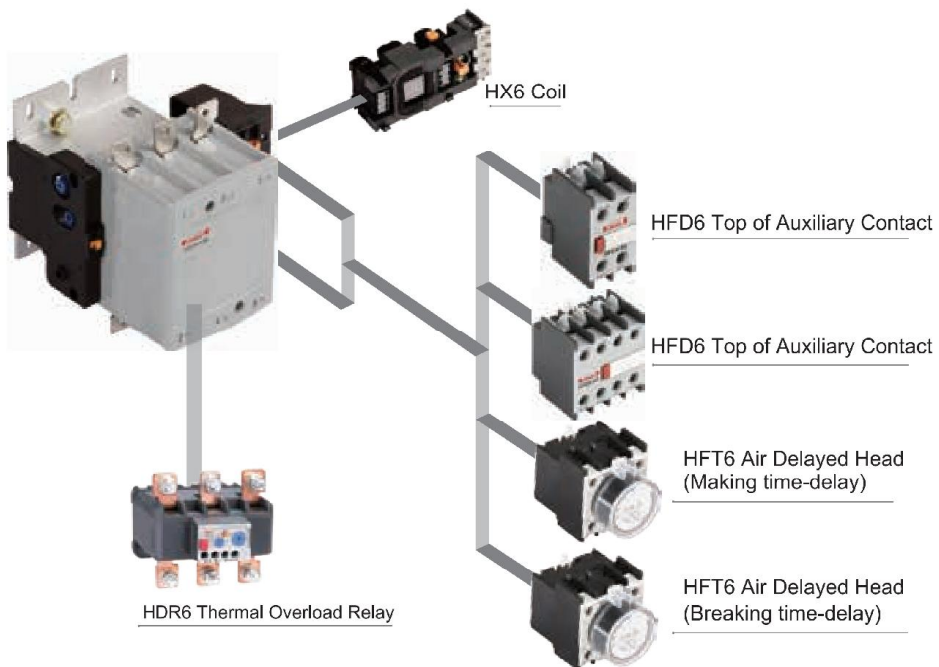
HDC6 AC Contactor

Accessories

HDC6-9~95A Contactor Accessory



HDC6-115~630A Contactor Accessory



HDC6 AC Contactor

Accessories

Auxiliary Contact



Installation Position	Pole	Composition		Contact Point Layout	Reference		
		NO	NC				
Top	2	0	2		HFD6 02		
		1	1		HFD6 11		
		2	0		HFD6 20		
	4	0	4		HFD6 04		
		1	3		HFD6 13		
		2	2		HFD6 22		
		3	1		HFD6 31		
		4	0		HFD6 40		
		Side	2	0	2		HFD6 02
				1	1		HFD6 11
2	0				HFD6 20		

HFT6 Air Delayed Contact

Installation Position	Delay Type	Wiring Diagram	Delay Range	Reference
Top	Making time-delay		0.1-3s	HFT6 20
			0.1-30s	HFT6 22
			10-180s	HFT6 24
	Breaking time-delay		0.1-3s	HFT6 30
			0.1-30s	HFT6 32
			10-180s	HFT6 34

HDC6 AC Contactor

Accessories

Mechanical Interlock Module



Horizontal Installation		
Interlock Method	Contact Type	Reference
Mechanical Interlock	HDC6-9~32	HFR6 32 H
Electricity Interlock	HDC6-40~95	HFR6 95 H
Interlock without Electricity	HDC6-115~150	HFR6 FF H
	HDC6-185~225	HFR6 GGH
	HDC6-265~330	HFR6 HH H
	HDC6-400~500	HFR6 KK H
	HDC6-630	HFR6 LL H



Vertical Installation (Mechanical without Electricity)		
Contact Type		Interlock Device Reference
Bottom	Top	
HDC6-115 or HDC6-150	HDC6-115	HFR6 FF V
	HDC6-150	HFR6 FF V
HDC6-185 or HDC6-225	HDC6-185	HFR6 FG V
	HDC6-225	HFR6 FG V
	HDC6-265	HFR6 FH V
	HDC6-330	HFR6 FH V
	HDC6-400	HFR6 FH V
	HDC6-500	HFR6 FH V
	HDC6-630	HFR6 FL V
	HDC6-630	HFR6 FL V
HDC6-265 or HDC6-330	HDC6-185	HFR6 GG V
	HDC6-225	HFR6 GG V
	HDC6-265	HFR6 GK V
	HDC6-330	HFR6 GK V
	HDC6-400	HFR6 GK V
HDC6-400	HDC6-265	HFR6 HK V
	HDC6-330	HFR6 HK V
	HDC6-400	HFR6 HK V
	HDC6-500	HFR6 HK V
HDC6-500	HDC6-630	HFR6 HL V
	HDC6-400	HFR6 HL V
	HDC6-500	HFR6 HL V
HDC6-630	HDC6-400	HFR6 HK V
	HDC6-500	HFR6 HK V
HDC6-630	HDC6-630	HFR6 HL V
	HDC6-630	HFR6 HL V
HDC6-630	HDC6-630	HFR6 LL V



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

HDC6 AC Contactor

Accessories



HX6 Coil

Adaptive Contactor	Coil Voltage	Reference
115A-150A	220V	HX6 150 M
	380V	HX6 150 Q
185A-225A	220V	HX6 225 M
	380V	HX6 225 Q
265A-330A	220V	HX6 330 M
	380V	HX6 330 Q
400A	220V	HX6 400 M
	380V	HX6 400 Q
500A	220V	HX6 500 M
	380V	HX6 500 Q
630A	220V	HX6 630 M
	380V	HX6 630 Q

HMC6 Main Contact

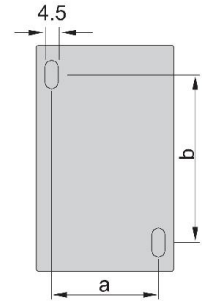
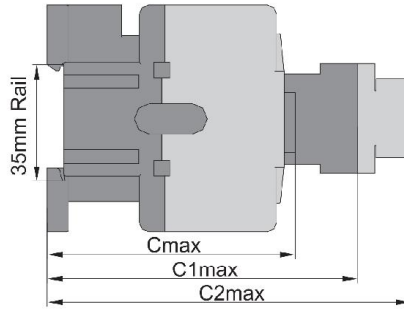
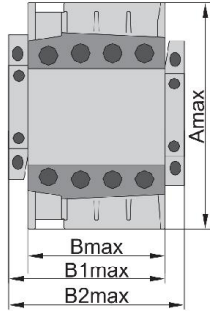


Number of Pole	Contactor Current Specification	Reference
3	115A	HMC6 115
	150A	HMC6 150
	185A	HMC6 185
	225A	HMC6 225
	265A	HMC6 265
	330A	HMC6 330
	400A	HMC6 400
	500A	HMC6 500
	630A	HMC6 630

HDC6 AC Contactor

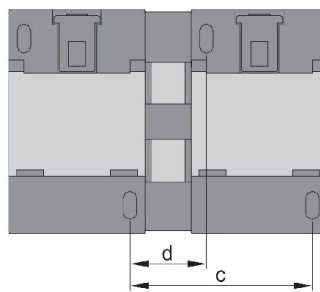
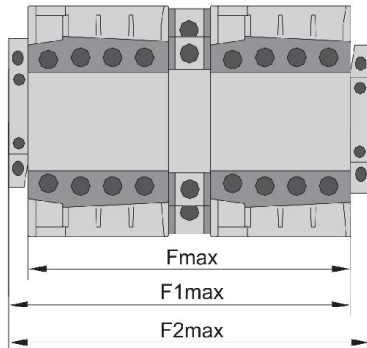
Overall Dimension of Installation

HDC6-9~32



HDC6	9/12	18	25/32
A	74.5	74.5	80
B (without accessory)	45.5	45.5	56.5
B1 (with a HFC6)	58	58	69
B2 (with two HFC6)	71	71	82
C (without accessory)	84	89	99.5
C1 (with HFD6)	116	122	132
C2 (with HFT6)	141	145	156
a	35	35	40
b	50/60	50/60	50/70

HDC6-9~32N



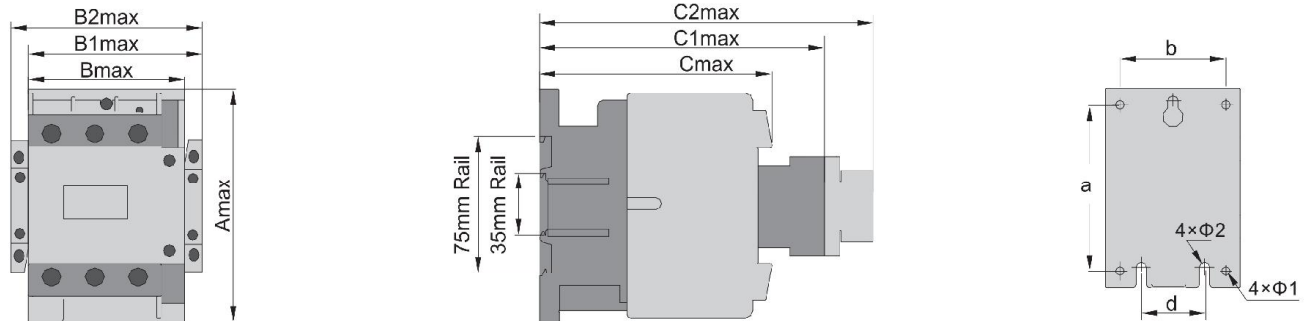
HDC6-	9N/12N	18N	25N/32N
F (without accessory)	108	108	132
F1 (with a HFC6)	119	119	143
F2 (with two HFC6)	131	131	155
c	60	60	71.5
d	25	25	31.5

Motor Control & Protection

HDC6 AC Contactor

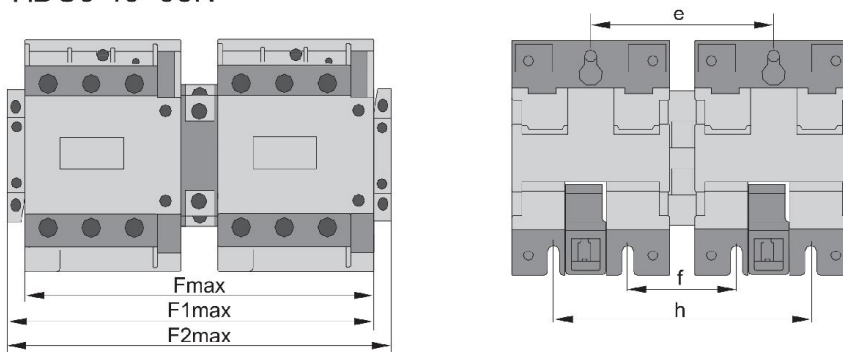
Overall Dimension of Installation

HDC6-40~95



HDC6	40/50/65	80/95
A	127	127
B (without accessory)	75	85
B1 (with a HFC6)	89	99
B2 (with two HFC6)	102	112
C (without accessory)	118.5	127.5
C1 (with HFD6)	150	160
C2 (with HFT6)	175	185
a	105	105
b	59	67
c	105	105
d	40	40
Φ1	5.5	5.5
Φ2	6.5	6.5

HDC6-40~95N

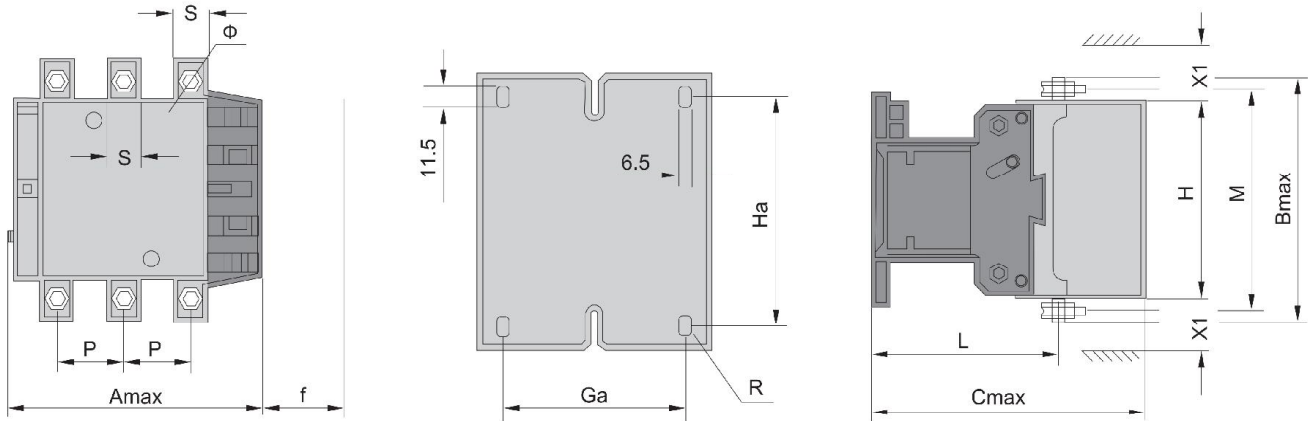


HDC6	40N/50N/65N	80N/95N
F (without accessory)	169	190
F1 (with a HFC6)	182	203
F2 (with two HFC6)	195	216
e	90	100.5
f	50	60.5
h	130	140

HDC6 AC Contactor

Overall Dimension of Installation

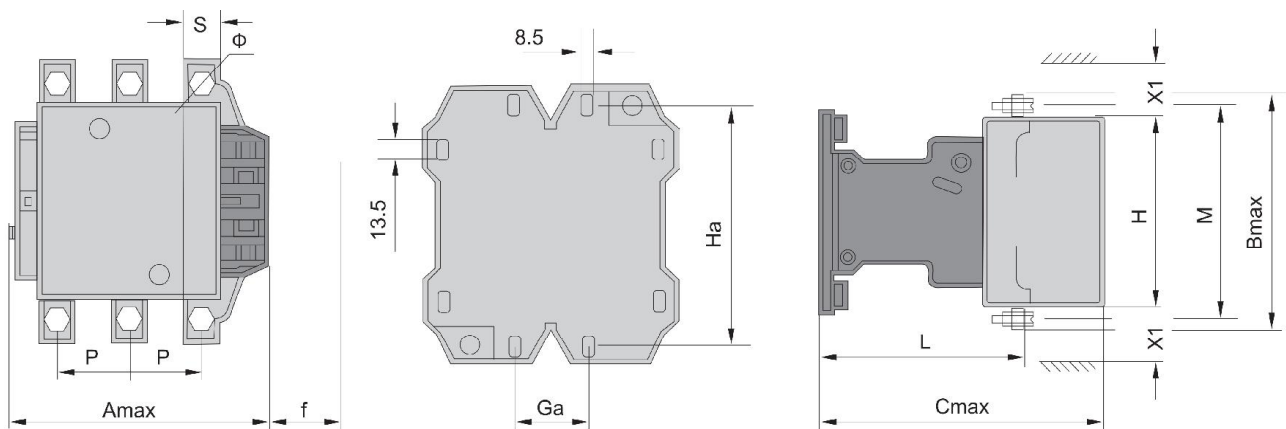
HDC6-115-330



Type	Amax	Bmax	Cmax	P	S	φ	f	M	H	L	X1		Ga	Ha
											(200-550V)	(600-1000V)		
HDC6-115	167	163	172	37	20	M6	131	147	124	107	10	15	80	110~120
HDC6-150	167	171	172	40	20	M8	131	150	124	107	10	15	80	110~120
HDC6-185	171	174	183	40	20	M8	131	154	127	113.5	10	15	80	110~120
HDC6-225	171	197	183	48	25	M10	131	172	127	113.5	10	15	80	110~120
HDC6-265	202	203	215	48	25	M10	147	178	147	141	10	15	96	110~120
HDC6-330	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.

HDC6-400~500



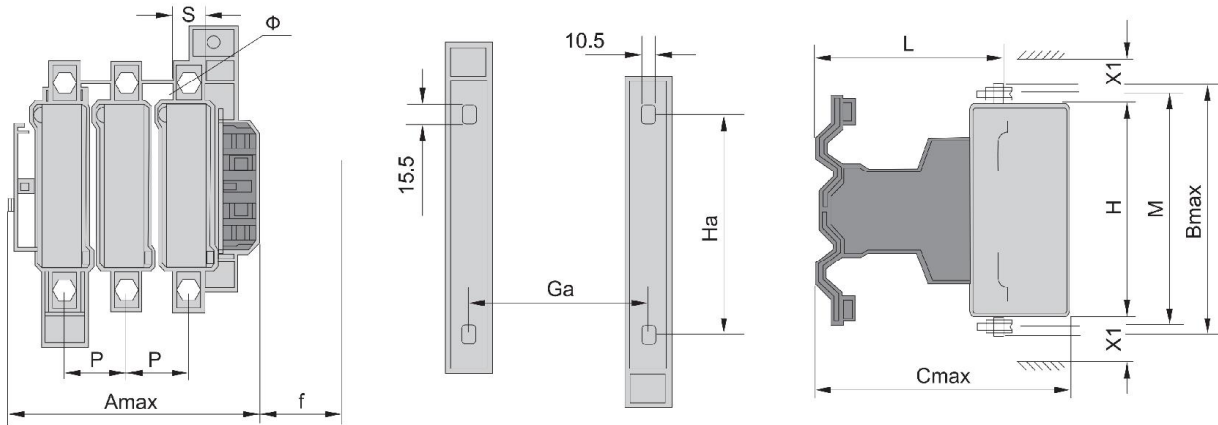
Type	Amax	Bmax	Cmax	P	S	φ	f	M	H	L	X1		Ga	Ha
											(200-550V)	(600-1000V)		
HDC6-400	213	206	220	48	25	M10	146	181	158	145	15	20	80	170~180
HDC6-500	223	233	233	55	30	M10	150	208	172	146	15	20	80	170~180

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

HDC6 AC Contactor

Overall Dimension of Installation

HDC6-630

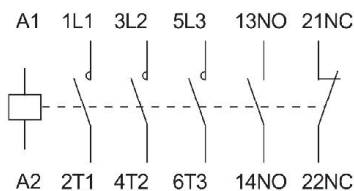


Type	Amax	Bmax	Cmax	P	S	ϕ	f	M	H	L	X1		Ga	Ha
											(200-550V)	(600-1000V)		
HDC6-630	309	304	256	80	40	M12	181	264	202	155	20	30	180	180~190

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

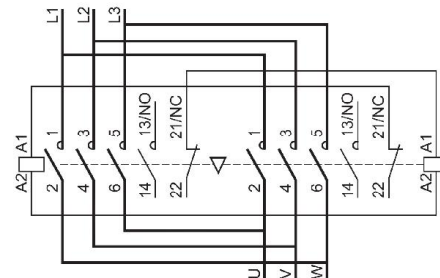
Wiring Diagram

HDC6-09~95

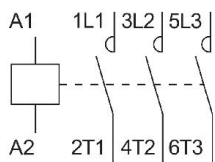


HDC6-09N~95N

(Horizontal Installation, Mechanical +Electrical Interlock)



HDC6-115~630



HDC6-115N~630N

(Horizontal Installation, Mechanical Interlock)

