



HDC3 AC contactor

Functions and features
Standard IEC/EN 60947-4-1



Main Technical Parameters of HDC3



Contactor model	HDC3-06	HDC3-09	HDC3-12	HDC3-18	HDC3-25	HDC3-32	HDC3-38	HDC3-40	HDC3-50	HDC3-65	HDC3-80	HDC3-95
Main circuit characteristics												
Number of poles	3 poles											
Rated insulation voltage (Ui)	690											
Maximum rated operating voltage (Ue)	660/690											
Conventional thermal current (Ith)	25	25	25	32	40	50	50	60	80	80	125	125
AC-3,380/400V	6	9	12	18	25	32	38	40	50	65	80	95
AC-3,600/800V	3.8	6.6	8.9	12.0	16.0	22.0	22.0	34.0	39.0	42.0	48.0	48.0
AC-4,380/600V	2.6	3.5	5.0	7.7	8.5	12.0	14.0	16.5	24.0	28.0	37.0	44.0
AC-4,600/800V	1	1.5	2.0	3.8	4.4	7.5	8.9	9.0	12.0	14.0	17.3	21.3
AC-3,380/400V	2.2	4.0	5.5	7.5	11.0	15.0	18.5	18.5	22.0	30.0	37.0	45.0
AC-3,600/800V	3	5.5	7.5	10.0	15.0	18.5	18.5	30.0	35.0	37.0	45.0	45.0
AC-4,380/600V	1.1	2.2	3.0	4.0	5.5	7.5	7.5	11.0	15.0	18.5	22.0	22.0
AC-4,600/800V	0.75	1.1	1.5	3.7	4.0	5.5	7.5	7.5	11.0	11.0	15.0	18.5
Mechanical durabilities	10,000 times											
Electrical durabilities	AC-3	110										
AC-4	10,000 times											
AC-3	22											
AC-4	17											
Operation frequency	AC-3	1200										
AC-4	300											
Coil	10,000 times											
Rated control voltage (Uc)	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440											
50/60Hz	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440											
Operation	85%~110% Use (installing angle of ±22.5°); 70%~120% Use (installing angle of ±5°)											
Drop-out	20%~75% Use (installing angle of ±22.5°); 20%~65% Use (installing angle of ±5°)											
Actuation	VA	50										
Holding	VA	6~9.5										
Heat dissipation	W	1~3	1~3									200
Main circuit terminal wiring capability												
Software 1 wire	mm²	1...4										
Without terminal 2 wires	mm²	1.5...6										
Software 1 wire	mm²	1...4										
Without terminal 2 wires	mm²	1.5...6										
Mfn terminal 2 wires	mm²	1...4										
Hardwire 1 wire	mm²	1...4										
Without terminal 2 wires	mm²	1.5...6										
Auxiliary contact	mm²	1...4										
Conventional thermal current (Ith)	A	10										
Rated operating voltage (Ue)	V	380										
Rated control capacity	DC	220										
AC-15	VA	360										
DC-13	W	33										
Certification	CB, CE, SEMKO											

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Main Technical Parameters of HDC3-N

Contactor model	Rated insulation voltage U _i (V)	Rated operating voltage U _e (V)	Rated making voltage U _m (V)	Conventional thermal current I _{th} (A)	Intermittent periodic duty AC-4 I _e (A)	Pe(kw)
HDC3-09N	690	380/400	380/400	20	3.5	1.5
		660/690	660/690		1.5	1.1
HDC3-12N	690	380/400	380/400	20	5	2.2
		660/690	660/690		2	1.5
HDC3-18N	690	380/400	380/400	25	7.7	3.3
		660/690	660/690		3.8	3
HDC3-25N	690	380/400	380/400	32	8.5	4
		660/690	660/690		4.4	4
HDC3-32N	690	380/400	380/400	40	12	5.4
		660/690	660/690		7.5	5.5
HDC3-38N	690	380/400	380/400	40	14	5.5
		660/690	660/690		8.9	6
HDC3-40N	690	380/400	380/400	50	18.5	7.5
		660/690	660/690		9	7.5
HDC3-50N	690	380/400	380/400	60	24	11
		660/690	660/690		12	10
HDC3-65N	690	380/400	380/400	80	28	15
		660/690	660/690		14	11
HDC3-80N	690	380/400	380/400	110	37	18.5
		660/690	660/690		17.3	15
HDC3-95N	690	380/400	380/400	110	44	22
		660/690	660/690		21.3	18.5



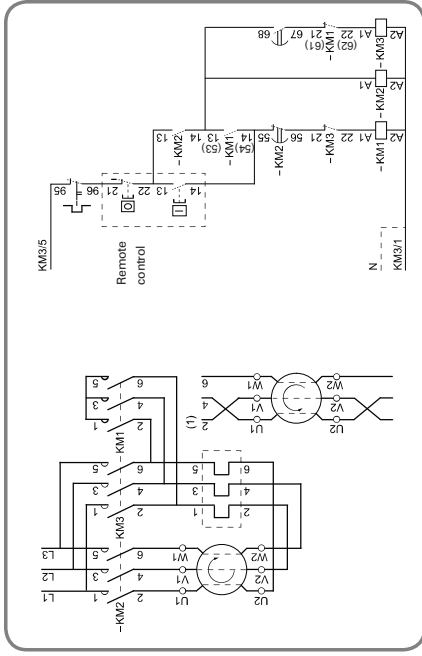
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Wiring diagram

Wiring diagram for star-delta starter



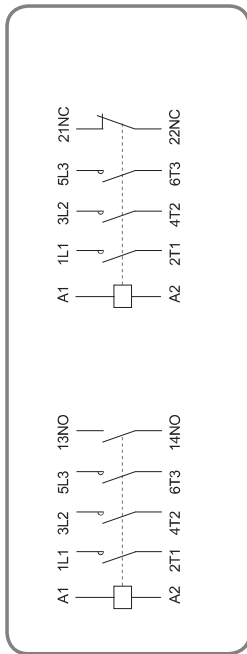
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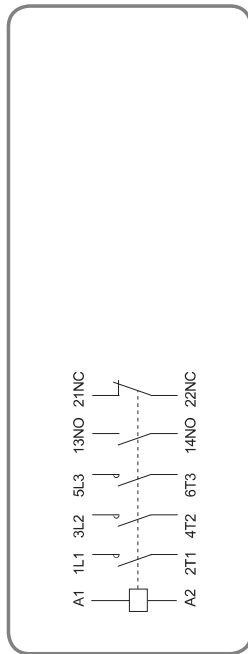


Wiring diagram

HDC3 6-38(1NO, or 1NC)



HDC3 9-95(1NO1NC)



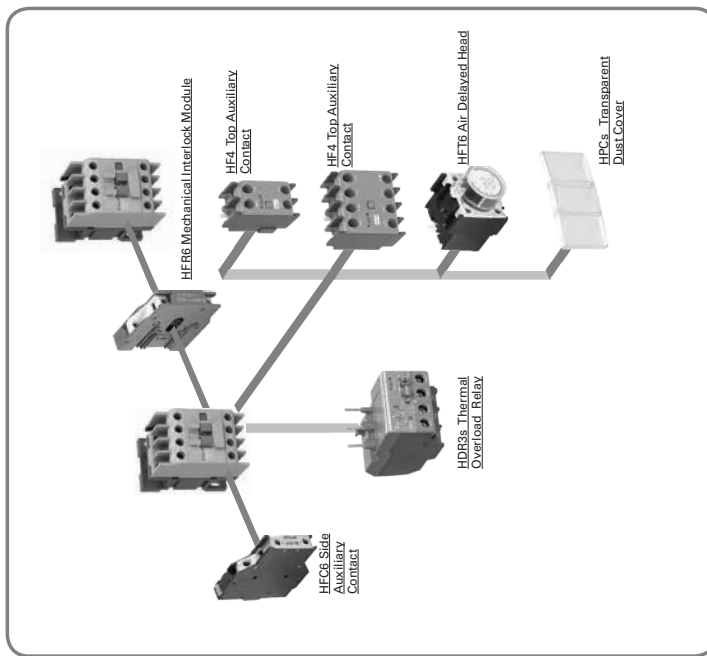
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Schematic Diagram of Accessory Installation

HDC3 schematic diagram of accessories



Transparent cover

Contactor Type	Reference
HDC3-6-38A/HDZ3	HPCs38
HDC3-40-65A	HPCs65
HDC3-80-95A	HPCs95

HDC3 AC Contactor

Accessories
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Auxiliary Contact

Installation Position	Pole	Auxiliary Contact NO	Auxiliary Contact NC	Contact Point Layout	Reference
Top	2	0	2		HF4 02
		1	1		HF4 11
		2	0		HF4 20
	4	0	4		HF4 04
Side	2	0	2		HFC6 02
		1	1		HFC6 11
		2	0		HFC6 20
	4	0	4		HFC6 04

HFT6 Air Delayed Head

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





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Mechanical Interlock Module

Horizontal Installation Interlock Method	Contact Type	Reference
Mechanical interlock with electrical interlock	HDC3-9-32	HFR6 32 H
Mechanical interlock without electrical interlock	HDC3-40-95	HFR6 95 H
	HDC3-9-32	HFR6 32 HX



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Order Information
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HDC3 AC Contactor

Product Name	Current Specification	Auxiliary Contact	Coil Voltage	Coil frequency
HDC3	06 ↓	10 ↓	M ↓	5 ↓
	06:6A ... 95:95A	10:1NO+0NC 01:0NO+1NC 11:1NO+1NC	B:24V ... M:220V/230V ... C:380V/400V ...	5:50Hz 7:50/60Hz



Motor power Pe (KW AC-3380V)	Rated current Ie (A)	Auxiliary contact		Reference
		NO	NC	
2.2	6	1	0	HDC3 06 10 *
4	9	1	0	HDC3 09 10 *
		0	1	HDC3 09 01 *
		1	1	HDC3 09 11 *
5.5	12	1	0	HDC3 12 10 *
		0	1	HDC3 12 01 *
		1	1	HDC3 12 11 *
7.5	18	1	0	HDC3 18 10 *
		0	1	HDC3 18 01 *
		1	1	HDC3 18 11 *
11	25	1	0	HDC3 25 10 *
		0	1	HDC3 25 01 *
		1	1	HDC3 25 11 *
15	32	1	0	HDC3 32 10 *
		0	1	HDC3 32 01 *
		1	1	HDC3 32 11 *
18.5	38	1	0	HDC3 38 10 *
		0	1	HDC3 38 01 *
		1	1	HDC3 38 11 *
18.5	40	1	1	HDC3 40 11 *
22	50	1	1	HDC3 50 11 *
30	65	1	1	HDC3 65 11 *
37	80	1	1	HDC3 80 11 *
45	95	1	1	HDC3 95 11 *

Note: Only 3-pole is available
* means coil voltage code + frequency code

Coil voltage code & coil frequency code

Coil Voltage(V)	24	36	48	110	127	220/230	240	380/400	415	440
50Hz	B5	C5	E5	F5	S5	M5	U5	O5	L5	X5
50/60Hz	B7	C7	E7	F7	S7	M7	U7	O7	L7	X7

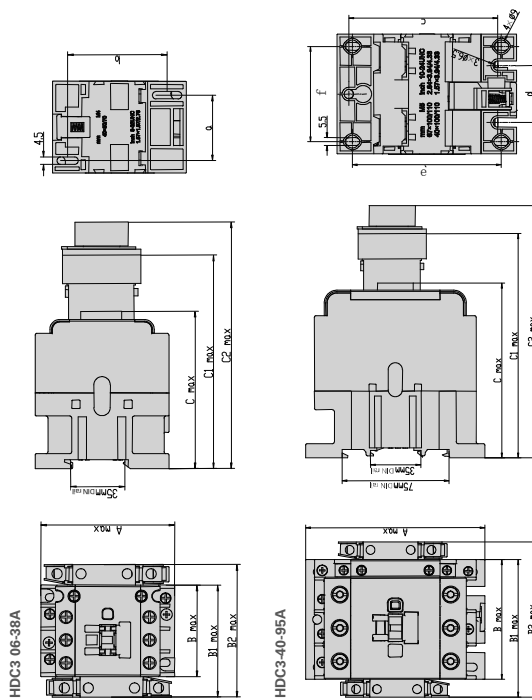


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Overall and installation dimensions



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Overall and installation dimensions

Overall Dimension of HDC3 06-95A AC contactor

Model	Auxiliary contacts	Amax	Bmax	B1max	B2max	Cmax	C1max	C2max
HDC3-06	01,10	74.5	45.5	-	-	75	107	132
HDC3-09, 12, 18	01,10	74.5	45.5	58	71	82.5	114.5	139.5
HDC3-25, 32, 38	01,10,11	83	56.5	69	82	85.5	117.5	142.5
HDC3-40, 50, 65	11	127.5	74.5	88	101	117	148.5	173.5
HDC3-80,95	11	127.5	85.5	99	112	125.5	167	182

Note: B1max=contactor+HFC6 B2max=Contactor+2 pieces of HFC6 C1max=Contactor+HF4 C2max=Contactor+HFT6

For HDC3-09-18, the height with 11 auxiliary contacts is 3mm higher than those with 01 or 10 auxiliary contacts.

Model	Auxiliary contacts	a	b	c	d	e	f
HDC3-06	01,10	35	50/60	-	-	-	-
HDC3-09, 12, 18	01,10,11	35	50/60	-	-	-	-
HDC3-25, 32, 38	01,10,11	40	50/70	-	-	-	-
HDC3-40, 50, 65	11	-	-	105	40	100/110	59
HDC3-80,95	11	-	-	105	40	100/110	67