

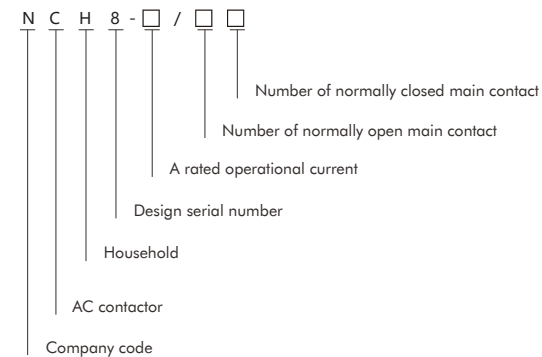


NCH8 Series Modular AC Contactors

1. General

- 1.1 Electric ratings: up to 20A, 25A, 40A, 63A, 230V, 400V
AC50/60Hz;
- 1.2 Utilization category: AC-1, AC-7a, AC-7b, AC-3;
- 1.3 Standard: IEC/EN 61095, IEC 60947-4-1

2. Type Designation



3. Features

- 3.1 Compact design and modularization design;
- 3.2 Insulation material with excellent performances has been adopted to enhance the operation security to a great extent;
- 3.3 Elegant appearance. A mounting instruction diagram is appended for convenient operation;
- 3.4 No noise during operation.
- 3.5 IP20

4. Technical data

4.1 Ratings

Model	Utilization category	Ui(V)	Ue(V~)	Conventional heating current(A)	Ie(A)	Controlled power(kW)
NCH8-20/20 NCH8-20/11 NCH8-20/02 NCH8-20/10 NCH8-20/01	AC-1/AC-7a AC-3/AC-7b	500	230	25	20 9	4 1.2
NCH8-20/40 NCH8-20/22 NCH8-20/31	AC-1/AC-7a AC-3/AC-7b	500	400	25	20 9	10 4
NCH8-25/20 NCH8-25/11 NCH8-25/02 NCH8-25/10 NCH8-25/01	AC-1/AC-7a AC-3/AC-7b	500	230	25	25 9	5 1.2
NCH8-25/40 NCH8-25/22 NCH8-25/31	AC-1/AC-7a AC-3/AC-7b	500	400	25	25 9	16 4
NCH8-40/20 NCH8-40/11 NCH8-40/02	AC-1/AC-7a AC-3/AC-7b	500	230	63	40 15	7.5 3
NCH8-63/20 NCH8-63/11 NCH8-63/02	AC-1/AC-7a AC-3/AC-7b	500	230	63	63 20	12 4
NCH8-40/40 NCH8-40/31 NCH8-40/22	AC-1/AC-7a AC-3/AC-7b	500	400	63	20	26 7.5
NCH8-63/40 NCH8-63/31 NCH8-63/22	AC-1/AC-7a AC-3/AC-7b	500	400	63	63 20	40 11

4.2 Action (operation) conditions:

When the ambient air temperature is $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$, the rated control power supply voltage u_s is applied to the contactor suction coil, so that when it is heated to a stable state, the contactor can be reliably closed under any voltage within the range of (85% ~ 110%) u_s .

The release voltage is neither higher than 75% u_s nor less than 20% u_s .

4.2.1 Agreed operational performance

Utilization category	Making conditionsB			reaking conditions			Electrification time(s)	Interval time(s)	Operating frequency
	I/Ie	U/Ue	COSΦ	Ic/Ie	Ur/Ue	COSΦ			
AC-1	1.0	1.05	0.8	1.0	1.05	0.8	0.05	10	6000
AC-7a	1.0	1.05	0.8	1.0	1.05	0.8	0.05	10	30000
AC-3/AC-7b	6.0	1.0	0.45	1.0	0.17	0.45	0.05	10	30000

4.2.2 Making and breaking capacity

Utilization category	Making and breaking conditions			Electrification time(s)	Interval time(s)	Operating frequency
	Ic/Ie	Ur/Ue	COSΦ			
AC-1/AC-7a	1.0	1.05	0.8	0.05	10	50
AC-3/AC-7b	8	1.05	0.45	0.05	10	50

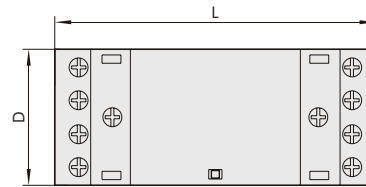
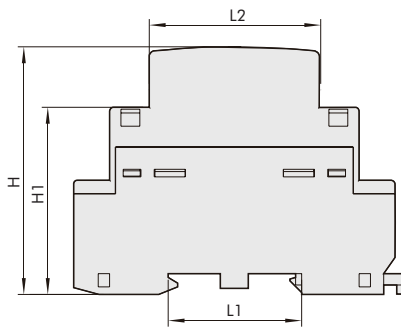
4.3 Conventional heating current under different ambient temperature

Rated current	40	50	60	70
Ie=20A	20A	18A	16A	14A
Ie=25A	25A	22A	18A	16A
Ie=40A	40A	38A	36A	32A
Ie=63A	63A	57A	50A	46A

4.4 Number of appended lamps with voltage up to 230V

Unit power	Tungsten filament and halogen 230V					
	60W	100W	200W	300W	500W	1000W
20A	20	12	6	4	2	1
25A	36	20	11	7	4	2
40A	85	50	25	17	10	5
63A	115	70	35	23	14	7

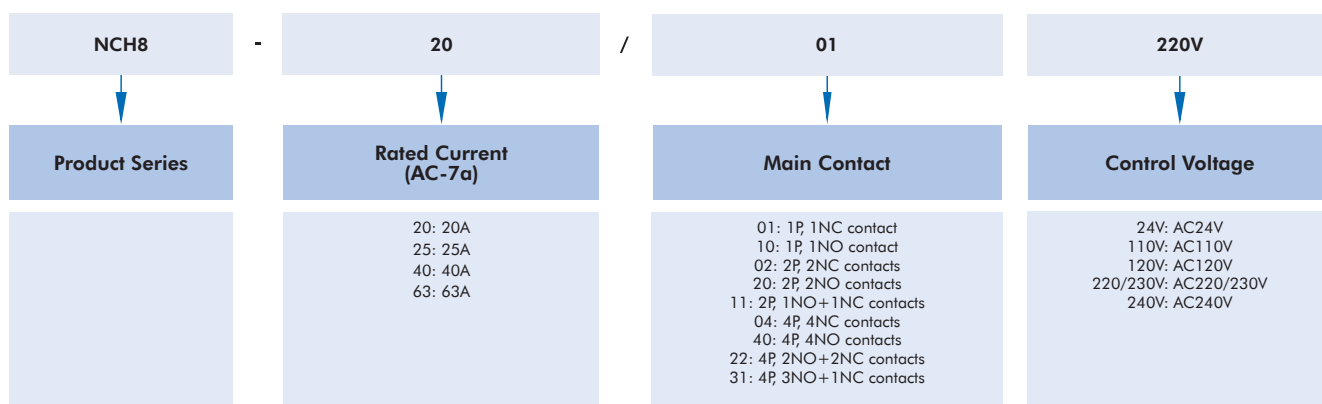
5. Overall and mounting dimensions (mm)



Model	D		L	L1	L2	H	H1
	2P	4P					
NCH8-20~25	18	36	85	35.5	45	66.5	50
NCH8-40 ~ 36	36	54	85	35.5	45	66.5	50

6. Ordering information

Model	Number of contact	w
NCH8-20	2NO	24V,220/230V,240V 50/60Hz
NCH8-20	1NO+1NC	
NCH8-20	2NC	
NCH8-20	1NO	
NCH8-20	1NC	
NCH8-20	4NO	
NCH8-20	2NO+2NC	
NCH8-20	3NO+1NC	
NCH8-25	2NO	
NCH8-25	1NO+1NC	
NCH8-25	2NC	
NCH8-25	1NO	
NCH8-25	1NC	
NCH8-25	4NO	
NCH8-25	2NO+2NC	
NCH8-25	3NO+1NC	
NCH8-40	4NO	
NCH8-40	3NO+1NC	
NCH8-40	2NO+2NC	
NCH8-40	2NO	
NCH8-40	1NO+1NC	
NCH8-40	2NC	
NCH8-63	4NO	
NCH8-63	3NO+1NC	
NCH8-63	2NO+2NC	
NCH8-63	2NO	
NCH8-63	1NO+1NC	
NCH8-63	2NC	



NCH8 Contactor 20~63A

AC-7a Current	Main Contacts	Auxiliary Contacts	Coil	Model Description	Code
20A	1NC	-	AC 220/230V	NCH8-20/01 220/230V	256245
20A	1NC	-	AC 24V	NCH8-20/01 24V	256246
20A	1NO	-	AC 220/230V	NCH8-20/10 220/230V	256247
20A	1NO	-	AC 24V	NCH8-20/10 24V	256248
20A	2NC	-	AC 220/230V	NCH8-20/02 220/230V	256053
20A	2NC	-	AC 24V	NCH8-20/02 24V	256097
20A	2NC	-	AC 240V	NCH8-20/02 240V	256160
20A	2NO	-	AC 24V	NCH8-20/20 24V	256051
20A	2NO	-	AC 220/230V	NCH8-20/20 220/230V	256054
20A	2NO	-	AC 110V	NCH8-20/20 110V	256104
20A	2NO	-	AC 240V	NCH8-20/20 240V	256158
20A	1NO+1NC	-	AC 220/230V	NCH8-20/11 220/230V	256052
20A	1NO+1NC	-	AC 24V	NCH8-20/11 24V	256063
20A	1NO+1NC	-	AC 240V	NCH8-20/11 240V	256159
20A	1NO+1NC	-	AC 110V	NCH8-20/11 110V	256259
20A	4NO	-	AC 220/230V	NCH8-20/40 220/230V	256085
20A	4NO	-	AC 24V	NCH8-20/40 24V	256086
20A	4NO	-	AC 110V	NCH8-20/40 110V	256107
20A	4NO	-	AC 240V	NCH8-20/40 240V	256152
20A	2NO+2NC	-	AC 220/230V	NCH8-20/22 220/230V	256087
20A	2NO+2NC	-	AC 24V	NCH8-20/22 24V	256088
20A	2NO+2NC	-	AC 240V	NCH8-20/22 240V	256153
20A	3NO+1NC	-	AC 220/230V	NCH8-20/31 220/230V	256175
20A	3NO+1NC	-	AC 24V	NCH8-20/31 24V	256176
25A	1NC	-	AC 220/230V	NCH8-25/01 220/230V	256241
25A	1NC	-	AC 24V	NCH8-25/01 24V	256242
25A	1NO	-	AC 220/230V	NCH8-25/10 220/230V	256243
25A	1NO	-	AC 24V	NCH8-25/10 24V	256244
25A	2NC	-	AC 220/230V	NCH8-25/02 220/230V	256239
25A	2NC	-	AC 24V	NCH8-25/02 24V	256240
25A	2NC	-	AC 240V	NCH8-25/02 240V	266873
25A	2NO	-	AC 220/230V	NCH8-25/20 220/230V	256235
25A	2NO	-	AC 24V	NCH8-25/20 24V	256236
25A	2NO	-	AC 110V	NCH8-25/20 110V	258927
25A	2NO	-	AC 240V	NCH8-25/20 240V	266872
25A	1NO+1NC	-	AC 220/230V	NCH8-25/11 220/230V	256237
25A	1NO+1NC	-	AC 24V	NCH8-25/11 24V	256238
25A	1NO+1NC	-	AC 240V	NCH8-25/11 240V	266871
25A	4NO	-	AC 220/230V	NCH8-25/40 220/230V	256089
25A	4NO	-	AC 24V	NCH8-25/40 24V	256090
25A	4NO	-	AC 110V	NCH8-25/40 110V	256105
25A	4NO	-	AC 240V	NCH8-25/40 240V	256154
25A	2NO+2NC	-	AC 220/230V	NCH8-25/22 220/230V	256091

AC-7a Current	Main Contacts	Auxiliary Contacts	Coil	Model Description	Code
25A	2NO+2NC	-	AC 24V	NCH8-25/22 24V	256092
25A	2NO+2NC	-	AC 240V	NCH8-25/22 240V	256155
25A	3NO+1NC	-	AC 220/230V	NCH8-25/31 220/230V	256173
25A	3NO+1NC	-	AC 24V	NCH8-25/31 24V	256174
40A	2NC	-	AC 220/230V	NCH8-40/02 220/230V	256209
40A	2NC	-	AC 24V	NCH8-40/02 24V	256210
40A	2NO	-	AC 220/230V	NCH8-40/20 220/230V	256081
40A	2NO	-	AC 24V	NCH8-40/20 24V	256082
40A	2NO	-	AC 110V	NCH8-40/20 110V	256106
40A	2NO	-	AC 240V	NCH8-40/20 240V	256148
40A	1NO+1NC	-	AC 220/230V	NCH8-40/11 220/230V	256083
40A	1NO+1NC	-	AC 24V	NCH8-40/11 24V	256084
40A	1NO+1NC	-	AC 240V	NCH8-40/11 240V	256149
40A	4NO	-	AC 24V	NCH8-40/40 24V	256098
40A	4NO	-	AC 220/230V	NCH8-40/40 220/230V	256099
40A	4NO	-	AC 240V	NCH8-40/40 240V	256161
40A	2NO+2NC	-	AC 220/230V	NCH8-40/22 220/230V	256215
40A	2NO+2NC	-	AC 24V	NCH8-40/22 24V	256216
40A	3NO+1NC	-	AC 220/230V	NCH8-40/31 220/230V	256213
40A	3NO+1NC	-	AC 24V	NCH8-40/31 24V	256214
63A	2NC	-	AC 220/230V	NCH8-63/02 220/230V	256211
63A	2NC	-	AC 24V	NCH8-63/02 24V	256212
63A	2NC	-	AC 240V	NCH8-63/02 240V	332525
63A	2NO	-	AC 220/230V	NCH8-63/20 220/230V	256093
63A	2NO	-	AC 24V	NCH8-63/20 24V	256094
63A	2NO	-	AC 110V	NCH8-63/20 110V	256108
63A	2NO	-	AC 240V	NCH8-63/20 240V	256150
63A	1NO+1NC	-	AC 220/230V	NCH8-63/11 220/230V	256095
63A	1NO+1NC	-	AC 24V	NCH8-63/11 24V	256096
63A	1NO+1NC	-	AC 240V	NCH8-63/11 240V	256151
63A	4NO	-	AC 24V	NCH8-63/40 24V	256100
63A	4NO	-	AC 220/230V	NCH8-63/40 220/230V	256101
63A	4NO	-	AC 240V	NCH8-63/40 240V	256162
63A	2NO+2NC	-	AC 220/230V	NCH8-63/22 220/230V	256219
63A	2NO+2NC	-	AC 24V	NCH8-63/22 24V	256220
63A	2NO+2NC	-	AC 240V	NCH8-63/22 240V	332526
63A	3NO+1NC	-	AC 220/230V	NCH8-63/31 220/230V	256217
63A	3NO+1NC	-	AC 24V	NCH8-63/31 24V	256218