

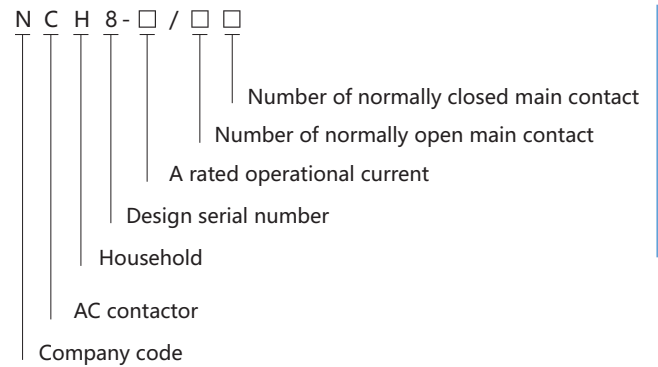


## NCH8 Modular AC Contactor 20~63A

### 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;
- 1.3 Standard: IEC/EN 61095

### 2. Model and meanings



### 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)	le (A)	Controlled power (kW)
NCH8-20/20 NCH8-20/11 NCH8-20/02 NCH8-20/10 NCH8-20/01	AC-1, AC-7a AC-7b	500	230	25	20 9	4 1.2
NCH8-20/40 NCH8-20/22 NCH8-20/31	AC-1, AC-7a 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-7b	500	230	25	25 9	5 1.2
NCH8-25/40 NCH8-25/22 NCH8-25/31	AC-1, AC-7a AC-7b	500	400	25	25 9	16 4
NCH8-40/20 NCH8-40/11 NCH8-40/02	AC-1, AC-7a AC-7b	500	230	63	40 15	7.5 3
NCH8-63/20 NCH8-63/11 NCH8-63/02	AC-1, AC-7a AC-7b	500	230	63	63 20	12 4
NCH8-40/40 NCH8-40/31 NCH8-40/22	AC-1, AC-7a AC-7b	500	400	63	20	26 7.5
NCH8-63/40 NCH8-63/31 NCH8-63/22	AC-1, AC-7a AC-7b	500	400	63	63 20	40 11
<b>16-25A</b>				<b>32-63A</b>		
Torque (N.m)	Control circuit	0.8				
	Power circuit	0.8		3.5		

**4.2 Action (operation) conditions:**

when the ambient air temperature is - 5 °C ~ + 40 °C, the rated control power supply voltage us 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%) us. The release voltage is neither higher than 75% us nor less than 20% us.

**4.2.1 Ratings**

Utilization category	Making conditions			Breaking conditions			Electrification time (s)	Interval time (s)	Operating frequency
	I/le	U/Ue	COSΦ	Ic/le	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-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/le	Ur/Ue	COSΦ			
AC-1/AC-7a	1.0	1.05	0.8	0.05	10	50
AC-7b	8	1.05	0.45	0.05	10	50

**4.3 Conventional heating current under different ambient temperature**

Rated current	40°C	50°C	60°C	70°C
le=20A	20A	18A	16A	14A
le=25A	25A	22A	18A	16A
le=40A	40A	38A	36A	32A
le=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	65.5	50
NCH8-40~36	36	54	85	35.5	45	65.5	50

### 6. Ordering information

Model	Number of contact	Coil voltage
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	

