



NCH8 Modular AC Contactor

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. Features

- 2.1 Compact design and modularization design;
- 2.2 Insulation material with excellent performances has been adopted to enhance the operation security to a great extent;
- 2.3 Elegant appearance. A mounting instruction diagram is appended for convenient operation;
- 2.4 No noise during operation.

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3. Technical data

3.1 Ratings

Model	Utilization category	Ui (V)	Ue (V~)	Conventional heating current (A)	Ie (A)	Controlled power (kW)
NCH8-20	AC-1,AC-7a	500	230	20	20	4
NCH8-20	AC-7b	500	230	20	9	1.2
NCH8-25	AC-1,AC-7a	500	400	25	25	16
NCH8-40	AC-1,AC-7a	500	400	40	40	40
NCH8-63	AC-1,AC-7a	500	400	63	63	40

3.2 Making and breaking capacity

Model	Utilization category	Making and breaking conditions			Electrification time (s)	Interval time (s)	Operating cycle times
		Ic/Ie	Ur/Ue	COS φ			
NCH8-20	AC-1,AC-7a	1.5	1.05	0.8	0.05	10	50
NCH8-20	AC-7b	8	1.05	0.45	0.05	10	50
NCH8-25	AC-1,AC-7a	1.5	1.05	0.8	0.05	10	50
NCH8-40	AC-1,AC-7a	1.5	1.05	0.8	0.05	10	50
NCH8-63	AC-1,AC-7a	1.5	1.05	0.8	0.05	10	50

3.3 Conventional Operating Performances

3.3.1 Conventional operating performances of NCH8-20~25

Utilization category	Making conditions			Breaking conditions			Electrification time (s)	Interval time (s)	Operating frequency
	I/Ie	U/Ue	COS φ	Ic/Ie	Ur/Ue	COS φ			
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

3.3.2 Conventional operating performances of NCH8-40~63

Utilization category	Making and breaking conditions			Electrification time (s)	Interval time (s)	Operating frequency
	Ic/Ie	Ur/Ue	COS φ			
AC-1	1.0	1.05	0.8	0.05	10	6000
AC-7a	1.0	1.05	0.8	0.05	10	30000

3.4 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

3.5 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

4. Overall and mounting dimensions (mm)



Model	D		L	L1	L2	H	H1	H2
	2P	4P						
NCH8-20~25	18	36	85	35.5	45	65.5	60	44
NCH8-40~36	36	54	85	35.5	45	65.5	60	44

5. Ordering information

Model	Number of contact	Coil voltage
NCH8-20	2NO	230V 50Hz
NCH8-20	2NO	24V 50Hz
NCH8-20	1NO+1NC	220/230V
NCH8-20	1NO+1NC	24V 50Hz
NCH8-20	2NC	220/230V
NCH8-20	2NC	24V 50Hz
NCH8-20	4NO	220/230V
NCH8-20	4NO	24V 50Hz
NCH8-20	2NO+2NC	220/230V
NCH8-20	2NO+2NC	24V 50Hz
NCH8-25	4NO	220/230V
NCH8-25	4NO	24V 50Hz
NCH8-25	2NO+2NC	220/230V
NCH8-25	2NO+2NC	24V 50Hz
NCH8-40	4NO	230V
NCH8-40	4NO	24V
NCH8-40	2NO	230V
NCH8-40	2NO	24V
NCH8-40	1NO+1NC	230V
NCH8-40	1NO+1NC	24V
NCH8-63	4NO	230V 50Hz
NCH8-63	4NO	24V 50Hz
NCH8-63	2NO	230V 50Hz
NCH8-63	2NO	24V 50Hz
NCH8-63	1NO+1NC	230V50Hz
NCH8-63	1NO+1NC	24V 50Hz