

# **NCH8 Modular AC Contactor**

## 1. General

- 1.1 Electric ratings: up to 20A, 25A, 40A, 63A, 230V, 400V
- 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)	le (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 Model category		and breaking co	nditions	Electrification	Interval	Operating
iviodei	category	lc/le	Ur/Ue	$\cos \varphi$	time (s)	time (s)	cycle times
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  $\sim\!25$ 

Utilization	Ma	king condi	tions	Breaking conditions		Electrification	Interval	Operating	
category	l/le	U/Ue	$\cos \varphi$	lc/le	Ur/Ue	$\cos \varphi$	time (s)	time (s)	frequency
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 $\sim$ 63

Utilization	Mak	ing and breaking cond	litions	Electrification	Interval	Operating
category	lc/le	Ur/Ue	$\cos \varphi$	time (s)	time (s)	frequency
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

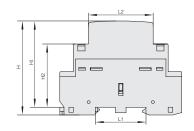
Rated current	40℃	50℃	60℃	70℃
Ie=20A	20A	18A	16A	14A
le=25A	25A	22A	18A	16A
Ie=40A	40A	38A	36A	32A
le=63A	63A	57A	50A	46A

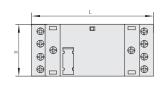
# 3.5 Number of appended lamps with voltage up to 230V

Unit power	Tungsten filament and halogen 230V								
Offic power	60W	100W	200W	300W	500W	1000W			
	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			

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# 4. Overall and mounting dimensions (mm)





Model	2P	4P	L	L1	L2	н	H1	H2
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	1 NO + 1 NC	220/230V
NCH8-20	1 NO + 1 NC	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	1 NO + 1 NC	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	1 NO + 1 NC	230V50Hz
NCH8-63	1NO+1NC	24V 50Hz