



## NCH8 Modular AC Contactor

### 1. General

- 1.1 Electric ratings: up to 20A, 25A, 40A, 63A, 230V, 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.

### 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 $\phi$			
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 $\phi$	Ic/Ie	Ur/Ue	COS $\phi$			
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 $\phi$			
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°C	50°C	60°C	70°C
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	Coil voltage	Number of contact	CTN	Order Code	
				Standard	RoHS
NCH8-20	2NO	230V 50Hz	128	153000	981874
NCH8-20	2NO	24V 50Hz	128	153001	981875
NCH8-20	1NO+1NC	220/230V	128	153002	981876
NCH8-20	1NO+1NC	24V 50Hz	128	153003	981877
NCH8-20	2NC	220/230V	128	153020	981878
NCH8-20	2NC	24V 50Hz	128	-	986779
NCH8-20	4NO	220/230V	96	-	986780
NCH8-20	4NO	24V 50Hz	96	-	986781
NCH8-20	2NO+2NC	220/230V	96	-	986782
NCH8-20	2NO+2NC	24V 50Hz	96	-	986783
NCH8-25	4NO	220/230V	96	-	986784
NCH8-25	4NO	24V 50Hz	96	-	986785
NCH8-25	2NO+2NC	220/230V	96	-	986786
NCH8-25	2NO+2NC	24V 50Hz	96	-	986787
NCH8-40	4NO	230V	64	153004	981879
NCH8-40	4NO	24V	64	153005	981880
NCH8-40	2NO+2NC	230V	64	153006	981881
NCH8-40	2NO+2NC	24V	64	153007	981882
NCH8-40	2NO	230V	64	153008	981883
NCH8-40	2NO	24V	64	153009	981884
NCH8-40	1NO+1NC	230V	64	153010	981885
NCH8-40	1NO+1NC	24V	64	153011	981886
NCH8-40	3NO+1NC	220/230V	64	-	986788
NCH8-40	4NC	220/230V	64	-	986789
NCH8-63	4NO	230V 50Hz	64	153012	981887
NCH8-63	4NO	24V 50Hz	64	153013	981888
NCH8-63	2NO+2NC	230V 50Hz	64	153014	981889
NCH8-63	2NO+2NC	24V 50Hz	64	153015	981890
NCH8-63	2NO	230V 50Hz	64	153016	981891
NCH8-63	2NO	24V 50Hz	64	153017	981892
NCH8-63	1NO+1NC	230V50Hz	64	153018	981893
NCH8-63	1NO+1NC	24V 50Hz	64	153019	981894
NCH8-63	3NO+1NC	220/230V	64	-	986790
NCH8-63	4NC	220/230V	64	-	986791