

Common failure and related treatment

For common failure and related treatment, see Table 5.

Table 5 Common failure and related treatment

Common failure	Possible causes	Treatment
Gag bit cannot be sucked	Coil terminal screw is loose	Screw the coil terminal screw
	Control voltage of coil is too low	Rise the control voltage of coil properly according to relevant rules
	There is some trouble in the coil	Re-connect the coil
	Installation angle is improper	Adjust the installation angle according to relevant rules
Gag bit is sucked but the main circuit is blocked	There is some trouble in the coil	Re-connect the coil
	Coil terminal screw is loose	Screw the coil terminal screw
Temperature of wiring terminal is too high	Coil terminal screw is loose	Screw the coil terminal screw
	Connect lead is too thin	choose standard lead according to relevant rules

If any failure occurs, please contact with the distributor of contact with the manufacturer directly in time.

Please read carefully

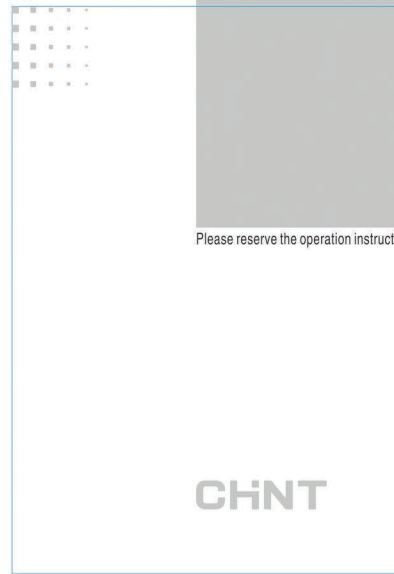
- Make sure the mark is conforms to the normal condition before installation.
- Total current of protected circuits shall not exceed maximum current of the product.
- The distance piece must be used in the middle

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of the two products for heat-away.

- When the temperature of distribution box is too high, contactor must be reduced capacity.
- Fixed appliances eg. stoves and hot water services, may cause deceptive tripping of the product. It is recommended to connect them independent of the product or on separate the product protected circuits.

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CHNT

Please read the operation instructions before installing and using the product

standard: IEC61095

NCH8 series

AC CONTACTOR FOR HOUSEHOLD OPERATION INSTRUCTIONS

OPERATION INSTRUCTIONS

CHNT

Application and working condition

● Application

NCH8 series Household AC contactor is used to remotely frequent making and breaking without inductivity or low inductivity load, electric cooker, household equipment and similar control equipment such as household motor.

● Working condition

* Environmental temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$.

Average temperature in 24h $\leq 35^{\circ}\text{C}$.

* Altitude $\leq 2000\text{m}$.

* Pollution degree: Degree 2.

* Adopt TH35-7.5 steel rail for erection.

* The incline to the vertical plane shall not exceed 5° .

* Electromagnetic field in erection location shall not exceed five times of geomagnetic in any direction.

* Tighten the wire by screw.

Main specification and technical parameter

● Type and designation

NCH8-□/□□

- └─ Numbers of NC contact
- └─ Numbers of NO contact
- └─ Rated current(A)
- └─ Design sequence No.
- └─ Household application
- └─ AC contactor
- └─ Enterprise feature code

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Main technical parameter

Table 1 Basic parameter of the contactor

Contactor	Pole	Rated insulation voltage (V)	Rated working voltage (V)	Rated impulse with surge voltage (kV)	Rated control heating current (A)	Rated control current (A)	Rated control power (W)	operating frequency	Electrical life	Mechanical life	Matched fuse type (SCPD)
NCH8-20	2P	230	230	4	20	20	4	30 operations	100,000 operations	1,000,000 operations	NB1-63 C20 IP
	4P	400	400	10							
NCH8-25	-	-	-	-	25	25	-	30 operations	100,000 operations	1,000,000 operations	NB1-63 C25 IP
	4P	400	400	16							
NCH8-40	2P	230	230	4	40	40	7.5	30 operations	100,000 operations	1,000,000 operations	NB1-63 C40 IP
	4P	400	400	26							
NCH8-63	2P	230	230	4	63	63	12	30 operations	100,000 operations	1,000,000 operations	NB1-63 C63 IP
	4P	400	400	40							

Table 2 Connecting and breaking capacity

Usage class	Connecting and breaking condition			Power on hours(s)	Interval (s)	Operation cycles
	Ic/Ie	Ur/Ue	COS φ			
AC-1	1.5	1.05	0.8	0.05	10	50
AC-7a	1.5	1.05	0.8	0.05	10	50

Table 3 Promised operation performance

Usage class	Connecting condition			Breaking condition			Power on hours(s)	Interval (s)	Operation cycles
	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

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Action (operation) condition

Apply rated control power supply voltage U_s to sucking coil of contactor in ambient air temperature range $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ to make it heat, the contactor shall close credibly at any voltage within the range of $(85\%\sim 110\%)U_s$. Its release voltage shall be not only more than $75\%U_s$, but also less than $20\%U_s$.

Main structure of contactor

Contactor is mainly consisted of magnetic system (coil, gag bit, yoke), contact system (contact bridge, contact, contact support), spring, cruse (cover, foundation) and so on, refer to diagram 1.

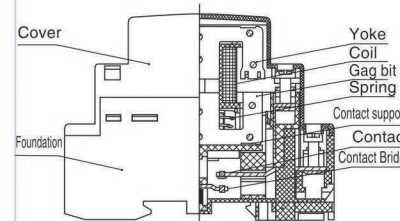


Diagram 1 Main structure of contactor

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Installation dimension and outline dimension, refer to table 4.

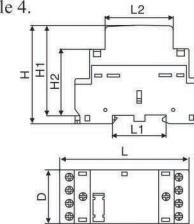
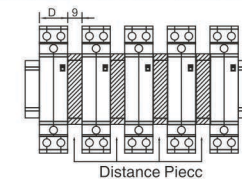


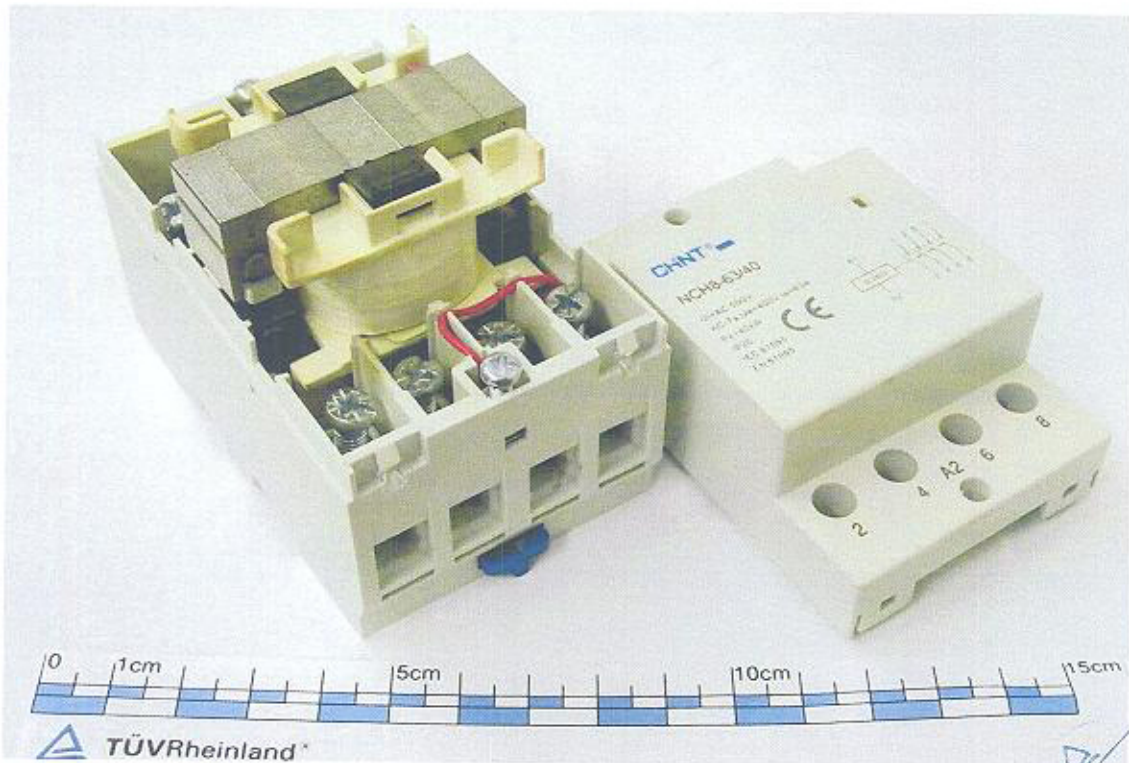
Table 4

Model of contactor	D		L	L1	L2	H	H1	H2
	2P	4P						
NCH8-20-25	18	36	85	35.5	45	65.5	60	44
NCH8-40-63	36	54	85	35.5	45	65.5	60	44

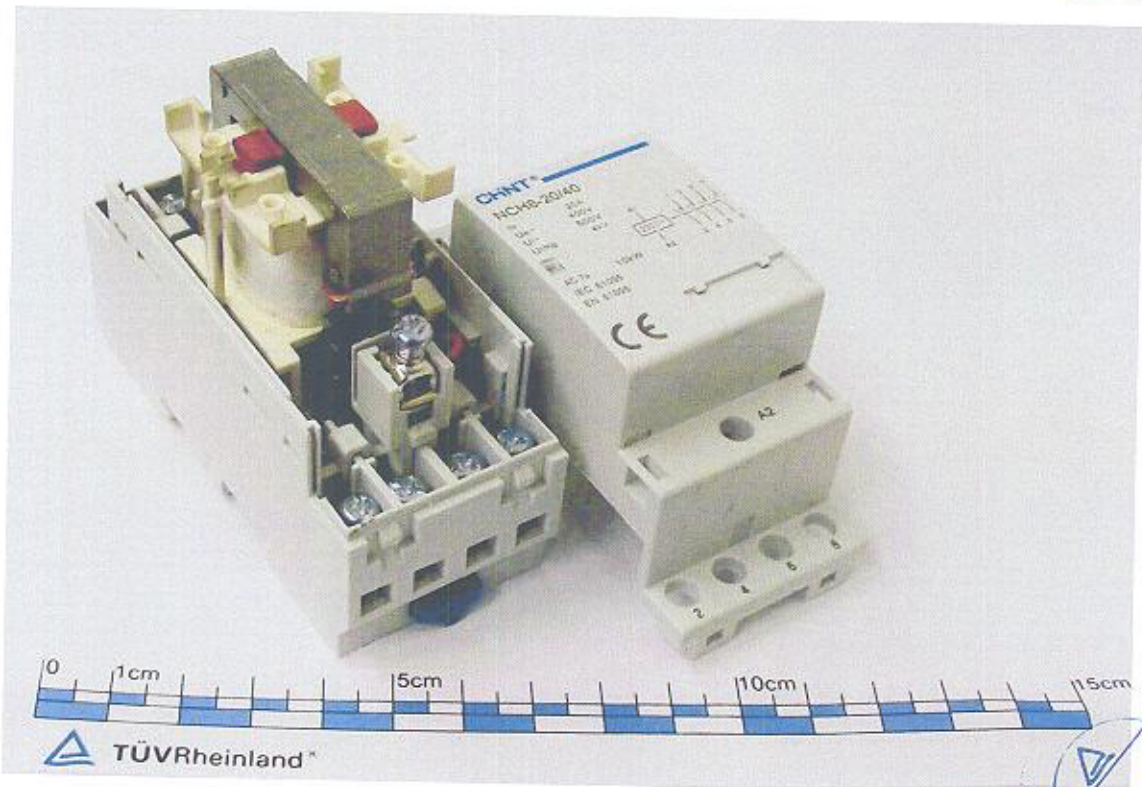


Distance Piece

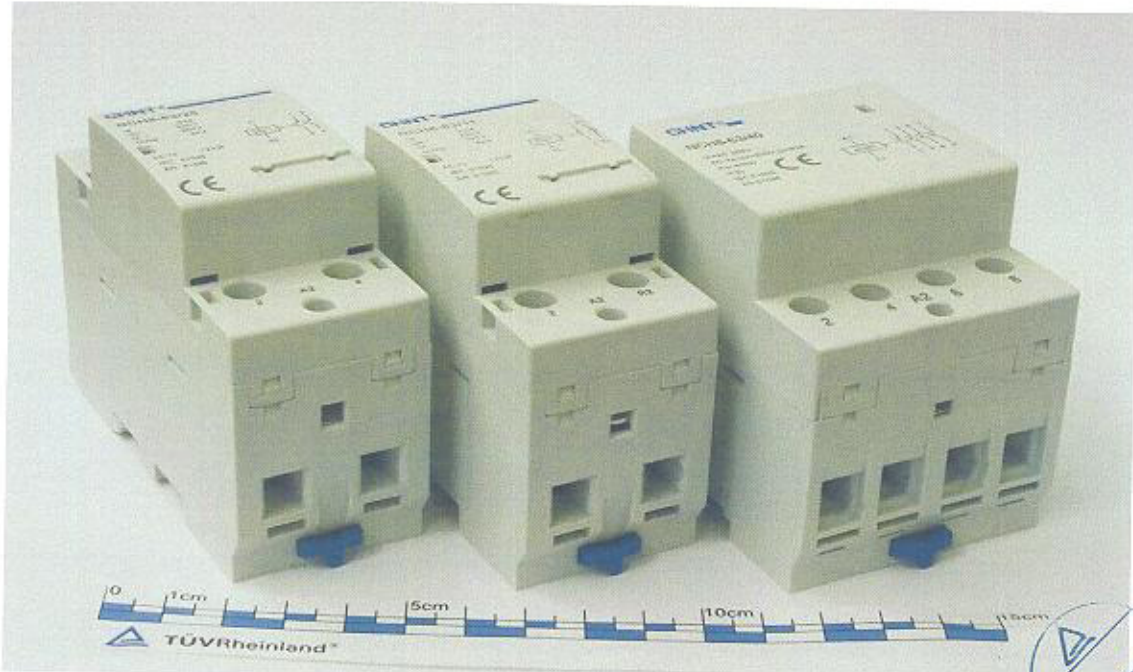
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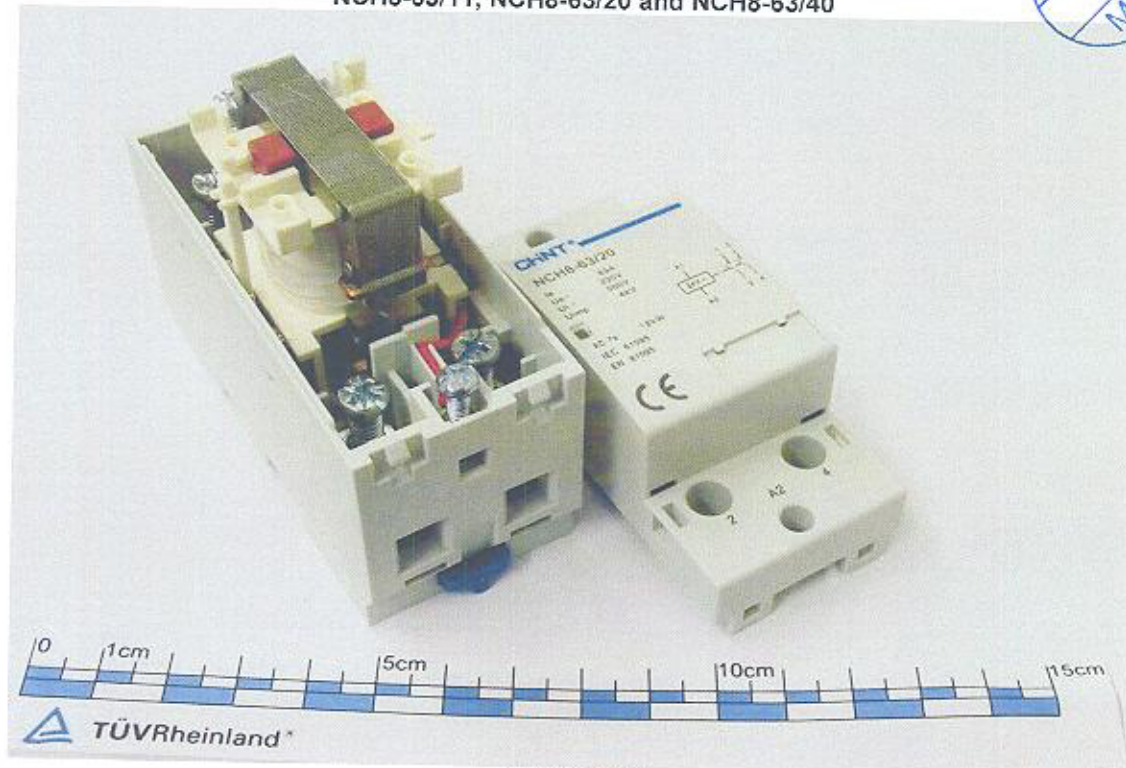
NCH8-63/40



NCH8-20/40



NCH8-63/11, NCH8-63/20 and NCH8-63/40



NCH8-63/20