



## NC6 Contactor, 6~9A

### 1. General

- 1.1 Certificates: CE, VDE, UKrSEPRO, EAC, UL;
- 1.2 Electric ratings: AC50/60Hz, up to 690V, up to 9A;
- 1.3 Application: remotely makes and breaks circuit, protect circuit from overload assembling with proper thermal relay;
- 1.4 Utilization category: AC-1, AC-3, AC-4;
- 1.5 Ambient temperature: -5°C~+40°C;
- 1.6 Altitude: ≤2000m;
- 1.7 Mounting category: III
- 1.8 Mounting conditions:  
inclination between mounting plane and vertical plane not exceed ±30°
- 1.9 Standard: IEC/EN 60947-4-1

### 2. Type designation

N C 6 - □ □ □ □ □

Blank: Screw-clamp connection  
 K: With solder "pins"  
 for direct connection  
 to printed circuit boards.

Number of contacts  
 10: 3N/O main contacts,  
 1N/O auxiliary contact  
 01: 3N/O main contacts,  
 1N/C auxiliary contact  
 04: 4N/O main contacts  
 08: 2N/O+2N/C main contacts

Rated operational current (AC-3, 380V)

Design sequence No.

Contactor





Company code




**3. Technical data**

3.1 Contactor

★ 3P contactor AC coil operation

| Items  |            | Model    | NC6-06  | NC6-06-K   | NC6-09  | NC6-09-K  |
|--|------------|----------|---|--|---|---|
|  |            |          |  |  |  |  |
| Rated conventional heating current (A)         | AC-1       |          | 20  |  | 20  |   |
| Rated operational current (A)                  | AC-3/AC-4  | 380/400V | 6   |  | 9   |   |
|  |            | 660/690V | 3.8   |  | 5   |   |
| Power of motor                                 | kW (AC-3)  | 220/230V | 1.5   |  | 2.2   |   |
|  |            | 380/400V | 2.2   |  | 4   |   |
|  |            | 660/690V | 3   |  | 4   |   |
|  | hp         | 240V     | -   |  | 2   |   |
|  |            | 400V     | -   |  | 3   |   |
|  |            | 600V     | -   |  | 3   |   |
| Operating cycles (operations/h)                | Electrical | AC-3     | 1,200   |  | 1,200   |   |
|  |            | AC-4     | 300   |  | 300   |   |
|  | Mechanical | 3,600    |   | 3,600  |   |   |
| Electrical life (× 10 <sup>3</sup> operations) | AC-3       |          | 1,200   |  | 1,200   |   |
|  | AC-4       |          | 25  |  | 25  |   |
| Mechanical life (× 10 <sup>6</sup> operations) |            |          | 10  |  | 10  |   |
| Matching fuse model                            |            |          | RT16-16   |  | RT16-20   |   |

★ 4P contactor AC operation

| Items  |            | Model          | NC6-06  | NC6-09 |
|--|------------|----------------|---|--------|
|  |            |                |  |        |
| Rated operational current (A)                  | AC-1       |                | 20  |        |
|  | AC-3/AC-4  | 380/400V       | 6   |        |
|  |            | 660/690V       | 3.8   |        |
| Power of motor                                 | kW (AC-3)  | 220V/230V/240V | 1.5   |        |
|  |            | 380/400V       | 2.2   |        |
|  |            | 660/690V       | 3   |        |
|  | hp         | 240V           | -   |        |
|  |            | 400V           | -   |        |
|  |            | 600V           | -   |        |
| Operating cycles (operations/h)                | Electrical | AC-3           | 1,200   |        |
|  |            | AC-4           | 300   |        |
|  | Mechanical | 3,600          |   | 3,600  |
| Electrical life (× 10 <sup>3</sup> operations) | AC-3       |                | 1,200   |        |
|  | AC-4       |                | 25  |        |
| Mechanical life (× 10 <sup>6</sup> operations) |            |                | 10  |        |
| Matching fuse model                            |            |                | RT16-16   |        |

3.2 AC coil specifications

| Items                        |         | Model | NC6-06                                   | NC6-09 |
|------------------------------|---------|-------|--|--------|
| Rated control voltage (V AC) |         |       | 24, 36, 48, 110, 127, 220, 230, 380, 400 |        |
| Coil power (VA)              | In-rush |       | 30                                       |        |
|                              | Sealed  |       | 4.5                                      |        |

#### 4. Terminal connection

| Model  | Number of piece | Conductor (mm <sup>2</sup> ) | Screw size | Tightening torque (N · m) |
|--------|-----------------|------------------------------|------------|---------------------------|
| NC6-06 | 1               | 2.5                          | M3         | 0.5                       |
| NC6-09 | 1               | 2.5                          | M3         | 0.5                       |



#### 5. Accessories

##### 5.1 Auxiliary contact

| Model            | Auxiliary contact          |                                  |                       |
|------------------|----------------------------|----------------------------------|-----------------------|
|                  | Model of assembled contact | Conventional heating current (A) | Control capacity      |
| NC6-06           | NCF6-20; NCF6-02           | 10                               | AC-15: 380/400V/0.95A |
|                  | NCF6-11; NCF6-40           |                                  | DC-13: 220/250V/0.15A |
|                  | NCF6-31; NCF6-22           |                                  |                       |
| NC6-09           | NCF6-13; NCF6-04           | 10                               | AC-15: 380/400V/0.95A |
|                  | NCF6-20; NCF6-02           |                                  | DC-13: 220/250V/0.15A |
|                  | NCF6-11; NCF6-40           |                                  |                       |
|                  | NCF6-31; NCF6-22           |                                  |                       |
| NCF6-13; NCF6-04 |                            |                                  |                       |



##### 5.2 Assembly with thermal over-load relay

| Model of contactor  | Assembled thermal over-load relay   |                   |                       |    |
|---|---|-------------------|-----------------------|----|
|   | Model   | Rated current (A) | Recommended fuse type |    |
|   |   |                   | aM                    | gG |
| <br>NC6-09 | <br>NR2-11.5 | 0.1~0.16          | 0.25                  | 2  |
|   |   | 0.16~0.25         | 0.5                   | 2  |
|   |   | 0.25~0.4          | 1                     | 2  |
|   |   | 0.4~0.63          | 1                     | 2  |
|   |   | 0.63~1            | 2                     | 4  |
|   |   | 1~1.6             | 2                     | 4  |
|   |   | 1.25~2            | 4                     | 6  |
|   |   | 1.6~2.5           | 4                     | 6  |
|   |   | 2.5~4             | 6                     | 10 |
|   |   | 4~6               | 8                     | 16 |
|   |   | 5.5~8             | 12                    | 20 |
|   |   | 7~10              | 12                    | 20 |
| 9~13  | 16  | 25                |                       |    |

#### 6. Overall and mounting dimensions (mm)

