NDC1(Z)-09~95 Series AC Contactor

Application

> NDC1(Z)-09~95 series AC contactor (hereinafter “contactor”) is used in AC 50Hz/60Hz circuit with rated insulating voltage of 690V, rated working voltage of 400V and rated working current from 9A~95A in AC-3 utilisation type. It is used to making or breaking the circuit and for frequent start AC motors from a distance. It can also be used as electro-magnetic starter when matching with thermal relay to protect the circuit against possible overload.

Model and Implication

<table>
<thead>
<tr>
<th>No.</th>
<th>Implication</th>
<th>NDC1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brand code</td>
<td>ND</td>
</tr>
<tr>
<td>2</td>
<td>Product code</td>
<td>C</td>
</tr>
<tr>
<td>3</td>
<td>Design code</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Control circuit code</td>
<td>Z: DC control circuit; No code: AC control circuit</td>
</tr>
<tr>
<td>5</td>
<td>Frame size</td>
<td>Shown by rated current when used in AC-3 at 400V</td>
</tr>
<tr>
<td>6</td>
<td>Auxiliary contact code of 3-pole contactor</td>
<td>10: 1 pair of normal open (NO) auxiliary contacts 01: 1 pair of normal close (NC) auxiliary contacts 11: 1 pair of NO auxiliary contacts and 1 pair of NC auxiliary contact</td>
</tr>
<tr>
<td></td>
<td>Main contact code of 4-pole contactor</td>
<td>04: 4 pairs of normal open (NO) main contacts 08: 2 pairs of NO main contacts and 2 pairs of NC main contacts</td>
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<tr>
<td>7</td>
<td>Special application code</td>
<td>TH: suitable for hot-humid climate</td>
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</tbody>
</table>

> Note: “11” type auxiliary contact code is only available for 40A/50A/65A/80A/95A (AC-3 at 400V) 3-pole contactor.

Control Power

<table>
<thead>
<tr>
<th>Parameter Type</th>
<th>Rated Current (A) (AC-3, 400V)</th>
<th>Control Power (kW)</th>
<th>Number of Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDC1(Z)-09</td>
<td>9</td>
<td>2.2</td>
<td>3P + NO or 3P + NC</td>
</tr>
<tr>
<td>NDC1(Z)-12</td>
<td>12</td>
<td>3.5</td>
<td>3P + NO or 3P + NC</td>
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<tr>
<td>NDC1(Z)-18</td>
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<td>NDC1(Z)-25</td>
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<td>3P + NO or 3P + NC</td>
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<td>NDC1(Z)-32</td>
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<td>NDC1(Z)-38</td>
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<td>NDC1(Z)-40</td>
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<td>NDC1(Z)-65</td>
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<tr>
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<tr>
<td>NDC1(Z)-95</td>
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<td>25</td>
<td>3P + NO or 3P + NC</td>
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</tbody>
</table>

> Note: 3P: three pairs of NO main contacts 4P: four pairs of NO main contacts 2P: two pairs of NO main contacts

Standards and Certificates

> IEC 60947-4, GB 14048.4, IEC 60947-5, GB 14048.5.
> TÜV, CE, CCC.

Working Condition

> Ambient temperature: -60℃~+80℃(Storage); -25℃~+60℃(Operating).
> Altitude: ≤3000m. Less than 5000m for plateau type product.
> The relative humidity of the air does not exceed 50% at the temperature of +40℃. Higher relative humidity may be permitted at lower temperature, such as 90% humidity at 20℃. Special measures are necessary in case of occasional condensation due to variations in temperature.
> Pollution degree: 3
> Installation category: III
> In addition to screw mounting, it can be installed on 35mm DIN rail or 75mm DIN rail.
> Vertical installation. The angle between installing surface and vertical surface should be less than ±30°.
> Working hours
  a) Eight hours
  b) Around-the-clock working
  c) Remittent periodical working
  Load factor: 40%
  Operating frequency: le≤25A
  le>25A
  1200 times/hour
  600 times/hour
Product Features

- Direct operating mechanism, double breaking points
- Compatible with accessories on every side except installing side
- Capable of adding mechanical interlocks on left or right side to form reversing contactor
- NF1 series auxiliary contact group and NS1 series pneumatic timer can be added on the front side and NF2 series auxiliary contact group can be added on left or right side
- NG1 series coil suppressor module can be added on coil terminal
- Protection degree: IP20

Usage in altitude less than 5000m:

- The capacity of contactor will derating as the altitude changes.
- The rate of current derating is shown as below (h means altitude):
  - No need to derating when contactor works in h<3000m;
  - The rate of current derating is 0.92le or 0.92lth when contactor works in 3000m<h≤3500m;
  - The rate of current derating is 0.88le or 0.88lth when contactor supplied in 3350m<h≤4000m;
  - The rate of current derating is 0.86le or 0.86lth when contactor supplied in 4000m<h≤5000m.

- The rate of voltage derating:
  - The maximum rated voltage will be decrease as the altitude increases when h>3000m.
  - The rate of voltage derating is 10% when increasing each 500m of altitude.

Main Specification

- **Rated current (A) le (AC-3)**:
  - 400V: 9, 12, 18, 25, 32, 38, 40, 50, 65, 80, 95
  - 690V: 6.6, 8.9, 12, 18, 21, 21.5, 24, 39, 42, 49, 49

- **Conventional thermal current (A) lth**:
  - 4000m<h≤5000m:
    - 3.5, 5, 7.7, 8.5, 12, 13.9, 18.5, 24, 28, 37, 44
  - 3500m<h≤4000m:
    - 1.5, 2, 3.8, 4.4, 7.5, 8, 9, 12, 14, 17.3, 21.3
  - 3000m<h≤3500m:
    - 20"Us ~ 75%Us (AC); 10%Us ~ 75%Us (DC)
  - Rated control circuit voltage (V) Us:
    - AC: 24, 36, 48, 110, 220, 380, 400; DC: 24, 48, 110, 220
  - Rated control circuit (VA):
    - AC(50Hz,50Hz/60Hz): 24, 36, 48, 110, 220, 380, 400; DC: 24, 48, 110, 220

Wiring Schematic

- **NDC1(Z)-0910~3810**
- **NDC1(Z)-4001~9540**
- **NDC1(Z)-0901~3801**
- **NDC1(Z)-4011~9511**
- **NDC1(Z)-0908, 1208, 2508**
- **NDC1(Z)-4008~6508**
**Dimension**

NDC1-09, 12, 18, 25, 32, 38 (3P&4P)

- **Cmax**: 35mm DIN rail
- **C1 (NF1)**
- **C2 (NS1)**

**Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Amax</th>
<th>A1</th>
<th>A2</th>
<th>Bmax</th>
<th>Cmax</th>
<th>a</th>
<th>b1</th>
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<tbody>
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<td>153</td>
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</table>

> Note: C1: NDC1+NF1 C2: NDC1+NS1 A1: NDC1+NF2 A2: NDC1+2×NF2

NDC1-40, 50, 65, 80, 95

- **Type**
  - NDC1Z-09, 12
  - NDC1Z-18
  - NDC1Z-25
  - NDC1Z-32, 38

**Dimension**

NDC1Z-40, 50, 65, 80, 95

- **Cmax**: 75mm DIN rail
- **C1 (NF1)**
- **C2 (NS1)**

**Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Amax</th>
<th>A1</th>
<th>A2</th>
<th>Bmax</th>
<th>Cmax</th>
<th>C1</th>
<th>C2</th>
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<td>35±0.50</td>
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<td>40±0.50</td>
<td>47</td>
</tr>
</tbody>
</table>

> Note: C1: NDC1Z+NF1 C2: NDC1Z+NS1 A1: NDC1Z+NF2 A2: NDC1Z+2×NF2

**Accessory (Order separately)**

- Full model of the contactor
- Rated control circuit voltage and its frequency
- Quantity
  - For example: AC contactor NDC1-Z010 50Hz/60Hz 220V 10PCS
    - Means: Rated current is 9A. Rated control circuit voltage is 220V (50Hz/60Hz). Quantity is 10 pieces.
- Contactor with special voltage can be customized upon customer's request.

> Please refer to Page 39-44 in catalogue of NDC1 Series AC Contactor when ordering NF1 series auxiliary contact group, NF2 series auxiliary contact group, N1 series pneumatic timer and N1G series coil suppressor module.
NDC1-115~780 Series AC Contactor

Application

- NDC1-115~780 series AC contactor (hereinafter “contactor”) is used in AC 50Hz or 60Hz circuit with raised insulating voltage up to 1000V, rated working voltage of 400V and rated working current from 115A~780A in AC-3 utilisation type. It is used to making or breaking the circuit and for frequent start AC motors from a distance. It can also be equipped with auxiliary contact group, pneumatic timer and such accessories. It can also be used as electro-magnetic starter when matching with thermal relay to protect the circuit against possible overload.

Model and Implication

- `NDC1-115~780 series AC contactor (hereinafter “contactor”)` is used in AC 50Hz or 60Hz circuit with raised insulating voltage up to 1000V, rated working voltage of 400V and rated working current from 115A~780A in AC-3 utilisation type. It is used to making or breaking the circuit and for frequent start AC motors from a distance. It can be easily equipped with auxiliary contacts group, pneumatic timer and such accessories. It can also be used as electro-magnetic starter when matching with thermal relay to protect the circuit against possible overload.

![Image of Nader product]

Standards

- IEC60947-4, GB14048.4, IEC60947-5, GB14048.5
- CCC

Product Features

- Direct operating mechanism, double breaking points.
- Capable of adding mechanical interlocks on left or right side to form reversing contactor.
- NF1 series auxiliary contact group and NS1 series pneumatic timer can be added on the top of right side.

Main Specification

- **Rated current (A) le**
  - AC-3: 400V 115, 150, 185, 225, 265, 330, 400, 500, 630, 780
  - AC-4: 690V 86, 107, 118, 135, 170, 225, 305, 355, 460, 550
- **Max. rated power of controlled 3-phase squirrel cage motor (kW) Pe**
  - AC-3: 400V 55, 75, 90, 110, 132, 160, 200, 250, 335, 400
  - AC-4: 690V 80, 100, 110, 129, 160, 220, 280, 335, 450, 475
- **Rated operational voltage (V) Ue**
  - AC-3: 600, 400, 600
  - AC-4: 800, 690, 1000
- **Rated insulation voltage (V) Ui**
  - AC-3: 20~35, 23~35
  - AC-4: 45~51, 43~57, 45~63, 75~90, 80~100, 110~125

Conventional thermal current (A) Ih

- 200, 250, 275, 315, 350, 400, 500, 700, 1000, 1500

Working Condition

- Ambient temperature: -40°C~+80°C (Storage), -25°C~+60°C (Gerating)
- Altitude: ≤3000m
- The relative humidity does not more than 50% at the temperature of +40°C. Higher relative humidity may be permitted at lower temperature, such as 90% relative humidity at 20°C. Special measures are necessary in case of occasional condensation due to variations in temperature.

Auxiliary contact

- Conventional thermal current (A) Ih
  - 10
- Electrical life (times)
  - AC-15 (360VA): 60×10^4
  - DC-13 (33W): 20×10^4
- Max. operating frequency (h)
  - AC-4: 20%Us~75%Us (DC)
  - 20%Us~70%Us (DC)

Main Specification

- **Parameters**
  - **Type**
  - **AC-3**
    - Rated current (A) le: 400V 115, 150, 185, 225, 265, 330, 400, 500, 630, 780
    - Max. rated power of controlled 3-phase squirrel cage motor (kW) Pe: 400V 55, 75, 90, 110, 132, 160, 200, 250, 335, 400
  - **AC-4**
    - Rated current (A) le: 690V 86, 107, 118, 135, 170, 225, 305, 355, 460, 550
    - Max. rated power of controlled 3-phase squirrel cage motor (kW) Pe: 690V 80, 100, 110, 129, 160, 220, 280, 335, 450, 475
- **Rated operational voltage (V) Ue**
  - AC-3: 600, 400, 600
  - AC-4: 800, 690, 1000
- **Rated insulation voltage (V) Ui**
  - AC-3: 20~35, 23~35
  - AC-4: 45~51, 43~57, 45~63, 75~90, 80~100, 110~125

Auxiliary contact

- Conventional thermal current (A) Ih
  - 10
- Electrical life (times)
  - AC-15 (360VA): 60×10^4
  - DC-13 (33W): 20×10^4
- Max. operating frequency (h)
  - AC-4: 20%Us~75%Us (DC)
  - 20%Us~70%Us (DC)

Coil

- Rated control circuit voltage (V) Us
  - AC: 24, 48, 110, 230(220), 400(380), DC: 24, 48, 110, 220
  - AC: 48, 110, 230(220), 400(380), DC: 110, 220
- Drop-out voltage
  - 20%Us~75%Us (AC), 10%Us~70%Us (DC)
- Pick-up voltage
  - 85%Us~110%Us

Wiring capacity for power circuit

- Copper cable
  - Number of conductors: 1
  - Secional area (mm^2): 95, 120, 150, 185, 240, 240, 250
  - Steel bar
    - Number of lugs: 2
    - Dimension (mm): 20~30
      - Flexible cable (mm^2): 1 conductor
        - 1 conductor
      - Solid cable (mm^2): 1 conductor
        - 2 conductors

Wiring capacity for auxiliary circuit or control circuit

- Flexible cable (mm^2): 1 conductor
  - 2 conductors
- Solid cable (mm^2): 1 conductor
  - 2 conductors

Installation category: III

- Vertical installation, the angle between installing surface and vertical surface should be less than ±30°.
- Screw mounting

Pollution degree: 3

- No significant shock or vibration.
- Vertical installation, the angle between installing surface and vertical surface should be less than ±30°.
- Screw mounting

Installation category: III

- Vertical installation, the angle between installing surface and vertical surface should be less than ±30°.
Dimension for NDC1-400~500 (Please refer to Table 2)

Note: f is the necessary distance for coil replacement, X1 is the Min. clearance (arcover distance).

Table 2 Unit mm

<table>
<thead>
<tr>
<th>NDC1</th>
<th>a</th>
<th>b</th>
<th>Q</th>
<th>b1</th>
<th>M</th>
<th>N</th>
<th>c</th>
<th>L</th>
<th>G</th>
<th>H</th>
<th>φ</th>
<th>G1</th>
<th>Φ</th>
<th>Z</th>
<th>Y</th>
<th>X1</th>
<th>500V ≤</th>
<th>&gt; 500V</th>
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<tbody>
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<td>213</td>
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<td>170-182</td>
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<td>180</td>
<td>15.5</td>
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<td>170-265</td>
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<td>180</td>
<td>34.5</td>
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</table>

Note: f is the necessary distance for coil replacement, X1 is the Min. clearance (arcover distance).

Table 1 Unit mm

<table>
<thead>
<tr>
<th>NDC1</th>
<th>a</th>
<th>φ</th>
<th>Q</th>
<th>Q1</th>
<th>S</th>
<th>f</th>
<th>b</th>
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<th>M</th>
<th>N</th>
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<tbody>
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<td>13.5</td>
<td>44</td>
<td>10</td>
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Note: f is the necessary distance for coil replacement, X1 is the Min. clearance (arcover distance).
### Dimension for NDC1-630 (Please refer to Table 3)

![Diagram](https://www.quisure.com)

<table>
<thead>
<tr>
<th>NDC1</th>
<th>a</th>
<th>P</th>
<th>Q</th>
<th>Q1</th>
<th>S</th>
<th>f</th>
<th>b</th>
<th>b1</th>
<th>M</th>
<th>N</th>
<th>c</th>
<th>L</th>
<th>G</th>
<th>H</th>
<th>Φ1</th>
<th>Z</th>
<th>Y</th>
<th>X1</th>
</tr>
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<tbody>
<tr>
<td>630</td>
<td>109</td>
<td>80</td>
<td>60</td>
<td>89</td>
<td>40</td>
<td>M12</td>
<td>201</td>
<td>104</td>
<td>280</td>
<td>264</td>
<td>202</td>
<td>255</td>
<td>155</td>
<td>180(100-195)</td>
<td>10.5</td>
<td>60.5</td>
<td>68.5</td>
<td>20</td>
</tr>
<tr>
<td>6304</td>
<td>189</td>
<td>80</td>
<td>60</td>
<td>89</td>
<td>40</td>
<td>M12</td>
<td>201</td>
<td>104</td>
<td>280</td>
<td>264</td>
<td>202</td>
<td>255</td>
<td>155</td>
<td>240(150-275)</td>
<td>10.5</td>
<td>60.5</td>
<td>88.5</td>
<td>20</td>
</tr>
</tbody>
</table>

> Note: f is the necessary distance for coil replacement. X1 is the Min. clearance (arcover distance).

### Dimension for NDC1-780 (Please refer to Table 4)

![Diagram](https://www.quisure.com)

<table>
<thead>
<tr>
<th>NDC1</th>
<th>a</th>
<th>P</th>
<th>Q</th>
<th>Q1</th>
<th>S</th>
<th>f</th>
<th>b</th>
<th>b1</th>
<th>M</th>
<th>N</th>
<th>c</th>
<th>L</th>
<th>G</th>
<th>H</th>
<th>Z</th>
<th>Φ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>780</td>
<td>160</td>
<td>169</td>
<td>192</td>
<td>60</td>
<td>M12</td>
<td>201</td>
<td>101</td>
<td>280</td>
<td>400-348</td>
<td>202</td>
<td>255</td>
<td>165</td>
<td>240</td>
<td>10.5</td>
<td>180</td>
<td>91</td>
</tr>
<tr>
<td>500v</td>
<td>&gt;500V</td>
<td>&gt;500V</td>
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<td></td>
<td></td>
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</tbody>
</table>

> Note: f is the necessary distance for coil replacement. X1 is the Min. clearance (arcover distance).

### Table 3

<table>
<thead>
<tr>
<th>Dimension for NDC1-630 (Please refer to Table 3)</th>
</tr>
</thead>
</table>

### Table 4

| Dimension for NDC1-780 (Please refer to Table 4) |

### Ordering Notice

Please specify the following information when placing an order:

> Full model of the contactor
> Rated control circuit voltage and its frequency
> Quantity:

For example: AC contactor NDC1-115 220V 50Hz 10PCS

Means: Rated current is 115A under AC400V (AC-3), rated control circuit voltage is 220V (50Hz). Quantity is 10 pieces.

> Contactors with special voltage can be customized upon customer’s requests.
> Coil can be ordered separately as it is the damageable part.