

# NQ3 Series DOL Electromagnetic Starter

## 1. General

- 1.1 NQ3 series electromagnetic starter

  ("starter" for short hereinafter) applies mainly to circuit with AC current of 50Hz (or 60Hz), rated operational voltage of 660V
  and rated controlled power up to 11kW
  (current up to 22A)
  for using to control the direct start
  and halt of the electromotor to protect the motor from overload and phase failure.
- 1.2 The starter conforms to standards IEC/EN60947-4-1

#### 2. Type designation



Characteristic code of the enterprise

#### 3. Technical data

Altitude: not exceeding 2000m; Temperature of ambient air: -5°C~+40°C Rated control supply voltage (AC 50Hz): 24V, 36V, 48V, 110V, 127V, 220V, 380V, 415V Mechanical life: 1,000,000 circles; Electric life: 500,000 circles; IP55

| Model    | Rated working<br>current (A) | Maximum rated Power (kW) |      |      | Model of<br>equipped | TOR matched | Range of setting current |
|----------|------------------------------|--------------------------|------|------|----------------------|-------------|--------------------------|
|          |                              | AC-3                     |      |      |                      |             |                          |
|          |                              | 660V                     | 380V | 220V | AC contactor         |             | A                        |
| NQ3-5.5P | 12                           | 7.5                      | 5.5  | 3    | NC1-1810             | NR2-25      | 0.1~0.16                 |
|          |                              |                          |      |      |                      |             | 0.16~0.25                |
|          |                              |                          |      |      |                      |             | 0.25~0.4                 |
|          |                              |                          |      |      |                      |             | 0.4~0.63                 |
|          |                              |                          |      |      |                      |             | 0.63~1                   |
|          |                              |                          |      |      |                      |             | 1~1.6                    |
|          |                              |                          |      |      |                      |             | 1.25~2                   |
|          |                              |                          |      |      |                      |             | 1.6~2.5                  |
|          |                              |                          |      |      |                      |             | 2.5~4                    |
|          |                              |                          |      |      |                      |             | 4~6                      |
|          |                              |                          |      |      |                      |             | 5.5~8                    |
|          |                              |                          |      |      |                      |             | 7~10                     |
|          |                              |                          |      |      |                      |             | 9~13                     |
| NQ3-11P  | 22                           | 15                       | 11   | 5.5  | NC1-3210             |             | 12~18                    |
|          |                              |                          |      |      |                      |             | 17~25                    |

#### Table 1 Basic Model and main technical parameter of the starter

# 4. Overall and mounting dimension (mm)

NQ3-5.5P

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NQ3-11P

## 5. Wiring Diagram







## 6. Picture

