

# YCP5 Series

## Waterproof box



• IP55 01A-80A

**CNC**  
ELECTRIC

## Motor Control and protection Inverter & Soft-Starter

### YCP5 Motor Starter



#### General

YCP5 series AC Motor Starter is suitable for circuits the alternating voltage up to 690V, current up to 80A. The product works to control the overload, phase loss, short circuit protection and infrequent starts of a three-phase squirrel cage asynchronous motor. The Motor Starter can protect the distributing line for infrequent load transfer, and it can also works as an isolator.

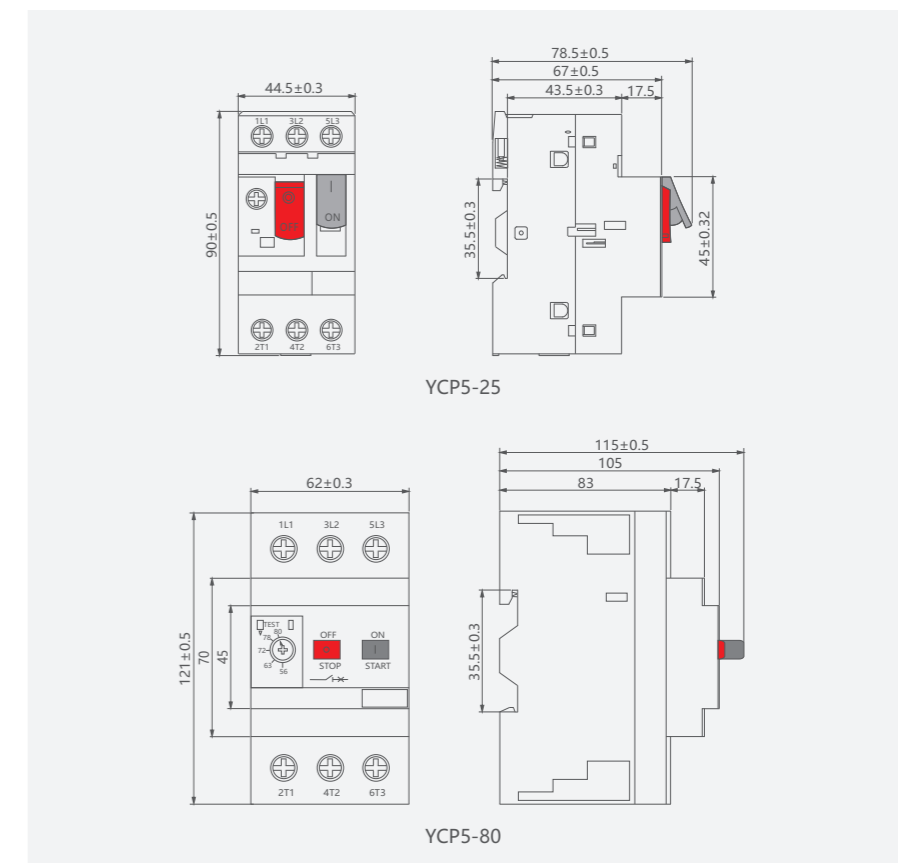
#### Operation and installation condition

1. Installation altitude  $\leq 2000\text{m}$
2. Ambient air temperature  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$  average temperature of 24 hours must be below  $+35^{\circ}\text{C}$
3. Relative humidity below 90% when the temperature is  $+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$
4. Ambient pollution level: 3
5. Installation category of the starter: III

Acting characteristic of each phase in distribution circuit breaker in the load balanced condition

| No. | Multiple of setting current | Acting time                   | Initial state | Ambient air temperature                     |
|-----|-----------------------------|-------------------------------|---------------|---|
| 1   | 1.0In                       | $\leq 2\text{h}$ non-tripping | Cold state    | $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ |
| 2   | 1.2In                       | $\leq 2\text{h}$ tripping     | Start after 1 | $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ |

#### Outline and installation dimensions



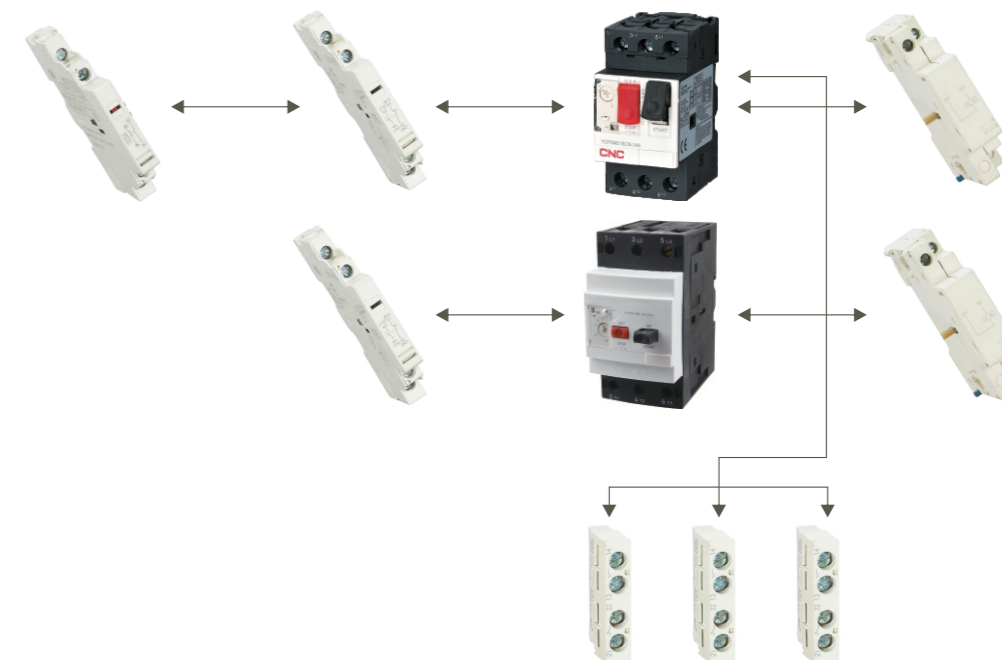
## YCP5 Motor Starter

Table 1

| Type         | Standard power ratings of 3-phase molors 50/60Hz in category AC-3 |      |      |      |      |      | Current setting range |
|--------------|---|------|------|------|------|------|-----------------------|
|              | 220V  | 380V | 415V | 440V | 500V | 660V |                       |
|              | kW  | kW   | kW   | kW   | kW   | kW   |                       |
| YCP5-25-ME01 | -   | -    | -    | -    | -    | -    | 0.1-0.16              |
| YCP5-25-ME02 | -   | -    | -    | -    | -    | -    | 0.16-0.25             |
| YCP5-25-ME03 | -   | -    | -    | -    | -    | -    | 0.25-0.4              |
| YCP5-25-ME04 | -   | -    | -    | -    | -    | 0.37 | 0.4-0.63              |
| YCP5-25-ME05 | -   | -    | -    | 0.37 | 0.37 | 0.55 | 0.63-1                |
| YCP5-25-ME06 | -   | 0.37 | -    | 0.55 | 0.75 | 1.1  | 1-1.6                 |
| YCP5-25-ME07 | 0.37  | 0.75 | 0.75 | 1.1  | 1.1  | 1.5  | 1.6-2.5               |
| YCP5-25-ME08 | 0.75  | 1.5  | 1.5  | 1.5  | 2.2  | 3    | 2.5-4                 |
| YCP5-25-ME10 | 1.1   | 2.2  | 2.2  | 3    | 3.7  | 4    | 4-6.3                 |
| YCP5-25-ME14 | 2.2   | 4    | 4    | 4    | 5.5  | 7.5  | 6-10                  |
| YCP5-25-ME16 | 3   | 5.5  | 5.5  | 7.5  | 7.5  | 9    | 9-14                  |
| YCP5-25-ME20 | 4   | 7.5  | 9    | 9    | 9    | 11   | 13-18                 |
| YCP5-25-ME21 | 5.5   | 11   | 11   | 11   | 11   | 15   | 17-23                 |
| YCP5-25-ME22 | 5.5   | 11   | 11   | 11   | 15   | 18.5 | 20-25                 |
| YCP5-25-ME32 | 7.5   | 15   | 15   | 15   | 18.5 | 26   | 24-32                 |
| YCP5-80-ME10 | 1.1   | 2.2  | 2.2  | 3    | 3.7  | 4    | 6-10                  |
| YCP5-80-ME16 | 2.2   | 4    | 4    | 4    | 5.5  | 7.5  | 10-16                 |
| YCP5-80-ME20 | 4   | 7.5  | 7.5  | 7.5  | 10   | 11   | 14-20                 |
| YCP5-80-ME25 | 5.5   | 11   | 11   | 11   | 15   | 18.5 | 16-25                 |
| YCP5-80-ME40 | 11  | 18.5 | 22   | 22   | 25   | 33   | 25-40                 |
| YCP5-80-ME63 | 15  | 30   | 33   | 33   | 40   | 55   | 40-63                 |
| YCP5-80-ME80 | 22  | 40   | 45   | 45   | 55   | 63   | 56-80                 |

## YCP5 Motor Starter

Table 2



### Contacts of accessories

Table 2

| Names of accessories             | Code   | the types of contacts   | installation place                              |
|----------------------------------|--------|-------------------------|---|
| Instantaneous auxiliary contacts | Ae1    | 1NO/1NC                 | The front of breaker<br>(1PCS can be installed) |
|                                  | AE11   | 1NO+NC                  |   |
|                                  | AE20   | 2NO                     |   |
|                                  | AN11   | 1NO+1NC                 |   |
|                                  | AN20   | 2NO                     |   |
| Instantaneous auxiliary contacts | AD1010 | Constant-open trouble   | NO  |
|                                  | AD1001 |                         | NC  |
|                                  | AD0110 | Constant-closed trouble | NO  |
|                                  | AD0101 |                         | NC  |

### Electricdisjointing

Table 3

| Names of accessories     | Code  | Voltage       | installation place                               |
|--------------------------|-------|---------------|--|
| Lack-voltage disjointing | Au115 | 100-127V 50Hz | The right of breaker<br>(1 PCS can be installed) |
|                          | Au225 | 220-240V 50Hz |  |
|                          | Au385 | 380-415V 50Hz |  |
| Division disjointing     | As115 | 100-127V 50Hz |  |
|                          | As225 | 220-240V 50Hz |  |
|                          | As385 | 380-415V 50Hz |  |

### The protective case of breaker

Table 4

| Names of accessories        | The protection grade of case | Code | memo |
|-----------------------------|------------------------------|------|------|
| External installation shell | IP41                         | MC01 |      |
|                             | IP55                         | MC02 |      |
|                             | IP65                         | MC03 |      |