

1, Ensure that all wiring are correct;

2, Confirm motor initial angle:

2.1 P02.00 = 11, to set up machine PG closed-loop vector control method for synchronous machine,.

2.2 PG card parameters set correctly, PG feedback source **P07.00 = 1.**

2.3 properly set motor parameters P03 group as below and set P12.07=2500 (Motor encoder pules number)

Motor Parameters setting:

| Code | Definition | Value |
|--------|-----------------|-------|
| P03.13 | Rated power | 4.3 |
| P03.14 | Rated Voltage | 380 |
| P03.15 | Rated current | 10 |
| P03.16 | Rated frequency | 100 |
| P03.17 | Pole pairs | 4 |
| P03.18 | Rated speed | 1500 |

Then do motor tuning with **P03.23.**

The function default value is 0. Press RUN key when 0 changes 1.

Synchronous motors will mark the position. After identification, the

P03.23 may recover to 0 automatically.

3、 After step 2, set parameters as below:

| Code | Definition | Value |
|--------|--------------------------------|--------------------------|
| P02.02 | Command channel option | 1 |
| P02.05 | Maximum output frequency | Depend on real situation |
| P02.06 | Upper limit frequency | Same as P02.05 |
| P09.00 | Servo control switching option | 3 |
| P09.03 | Position given source | 2 |
| P09.04 | Pulse instruction input mode | 1 |
| P09.34 | Output amplitude limit | 100.0% |
| P10.18 | Output terminal Y1 collector | 16 |