

## Inverter Dimension & Weight

| Inverter Capacity | Enclosure IP20(mm) |      |     |     |       | Weight(Kg)  |                |
|-------------------|--------------------|------|-----|-----|-------|-------------|----------------|
|                   | W                  | H    | D   | W1  | H1    | With Filter | Without Filter |
| JNE2-1P2          | 72                 | 131  | 118 | 61  | 116   | NA          | 0.76           |
| JNE2-1P5          |                    |      |     |     |       | NA          | 0.77           |
| JNE2-101          |                    |      |     |     |       | NA          | 0.84           |
| JNE2-2P2          |                    |      |     |     |       | 0.86        | 0.77           |
| JNE2-2P5          |                    |      |     |     |       | 0.87        | 0.78           |
| JNE2-201          | 118                | 143  | 172 | 108 | 127.5 | 0.91        | 0.82           |
| JNE2-202          |                    |      |     |     |       | 2.1         | 1.95           |
| JNE2-203          |                    |      |     |     |       | 2.2         | 2.05           |
| JNE2-401          |                    |      |     |     |       | 1.6         | 1.38           |
| JNE2-402          |                    |      |     |     |       | 1.62        | 1.4            |
| JNE2-403          | 1.68               | 1.46 |     |     |       |             |                |

| Inverter Capacity | IP65(NEMA4)without Switch (mm) |        |        |        |        | Weight(Kg) |        | IP65(NEMA4)with Switch(mm) |        |        |        |             | Weight(Kg) |  |
|-------------------|--------------------------------|--------|--------|--------|--------|------------|--------|----------------------------|--------|--------|--------|-------------|------------|--|
|                   | W                              | H      | D      | W1     | H1     | W/O Filter | W      | H                          | D      | W1     | H1     | With Filter | Weight(Kg) |  |
| JNE2-1P2          | 133.57                         | 204.82 | 161.29 | 117.23 | 188.96 | 3.1        | 133.57 | 204.82                     | 173.38 | 117.23 | 188.96 | 3.3         | 3.3        |  |
| JNE2-1P5          |                                |        |        |        |        | 3.1        |        |                            |        |        |        | 3.3         |            |  |
| JNE2-101          |                                |        |        |        |        | 3.1        |        |                            |        |        |        | 3.3         |            |  |
| JNE2-2P2          |                                |        |        |        |        | 3.2        |        |                            |        |        |        | 3.4         |            |  |
| JNE2-2P5          |                                |        |        |        |        | 3.2        |        |                            |        |        |        | 3.4         |            |  |
| JNE2-201          | 232                            | 295    | 180.5  | 210    | 274.5  | 3.2        | 232    | 295                        | 211.4  | 210    | 274.5  | 3.4         | 3.4        |  |
| JNE2-202          |                                |        |        |        |        | 6.0        |        |                            |        |        |        | 6.1         |            |  |
| JNE2-203          |                                |        |        |        |        | 6.1        |        |                            |        |        |        | 6.2         |            |  |
| JNE2-401          |                                |        |        |        |        | 5.7        |        |                            |        |        |        | 5.8         |            |  |
| JNE2-402          |                                |        |        |        |        | 5.9        |        |                            |        |        |        | 6.0         |            |  |
| JNE2-403          | 6.0                            | 6.1    |        |        |        |            |        |                            |        |        |        |             |            |  |

## Peripherals

### EMI Filter

| Model      | Rated          | Inverwe model                        | Enclosure IP20(mm) |     |    |     |     | Weight(Kg) |
|------------|----------------|--------------------------------------|--------------------|-----|----|-----|-----|------------|
|            |                |                                      | W                  | H   | D  | W1  | H1  |            |
| JNE2F-2102 | 1Ø220~250V/10A | JNE2-1P2/1P5/101<br>JNE2-2P2/2P5/201 | 76                 | 156 | 25 | 60  | 145 | 0.42       |
| JNE2F-2202 | 1Ø220~250V/20A | JNE2-202/203                         | 120                | 172 | 38 | 106 | 158 | 1.12       |
| JNE2F-4103 | 3Ø380~460V/10A | JNE2-401/402/403                     | 120                | 172 | 38 | 106 | 158 | 1.12       |

### Braking Resistor

| Inverter Model | Resistor Model | Specification |     |     |
|----------------|----------------|---------------|-----|-----|
|                |                | W             | Ω   | %ED |
| JNE2F-202      | JNBRN2-202     | 150           | 100 | 10  |
| JNE2F-203      | JNBRN2-203     | 200           | 70  | 9   |
| JNE2F-401      | JNBRN2-401     | 60            | 750 | 8   |
| JNE2F-402      | JNBRN2-402     | 150           | 400 | 10  |
| JNE2F-403      | JNBRN2-403     | 200           | 250 | 8   |

DIN RAIL KIT: DINE2-201 (for all IP20 models)

**TECO ELECTRIC & MACHINERY CO., LTD.**

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# INVERTER E2 Series



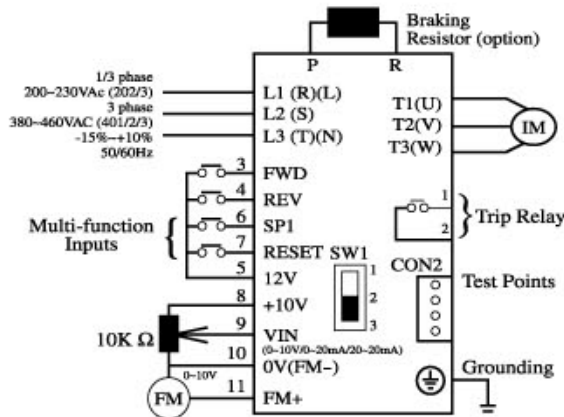
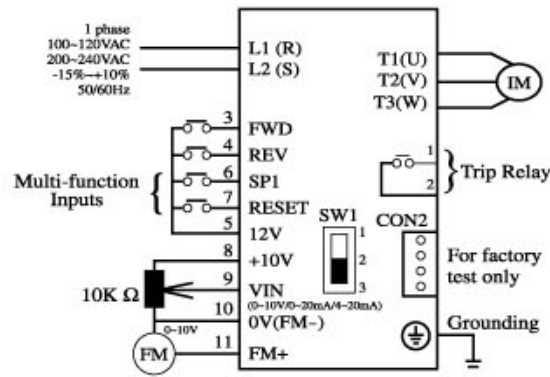
## Feature

- Easy for Operation
- Cost efficiency
- EMI Filter Built-in
- 16kHz Carrier Freq.
- DIN Rail mounting option
- IP20, IP65(NEMA4) Enclosure

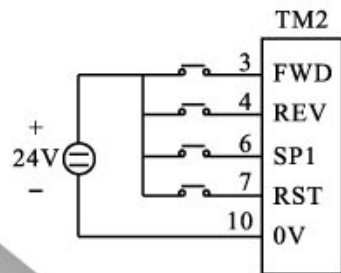
## Interconnection

JNE2-1P2/1P5/101/2P2/2P5/201 Inverter

JNE2-202/203/401/402/403 Inverter



External DC24V wiring diagram



## Ordering numbers

| JNE2   | 2                    | P5          | H   | 1                    | F                      | N4                 |
|--------|----------------------|-------------|---|----------------------|------------------------|--------------------|
| Series | Input Voltage        | Capacity    | Specification                                   | Phase of input power | Filter option          | Enclosure          |
|        | 2 : 200VAC           | P2 : 0.25HP | M : Basic type<br>(CPU Version 1.6)             | Blank : 1/3 phase    | Blank : without filter | Blank : IP20       |
|        | 4 : 400VAC           | P5 : 0.5HP  | H : Advanced type<br>(CPU Version 1.9 or above) | 1 : 1 phase          | F : with filter        | N4 : IP65 (NEMA4)  |
|        | 1 : 120VAC*          | 01 : 1Hp    |   | 3 : 3 phase          |                        | Without switch     |
|        | *(Subject to demand) | 02 : 2Hp    |   |                      |                        | N4S : IP65 (NEMA4) |
|        |                      | 03 : 3Hp    |   |                      |                        | With switch        |

## Specification

| Model                  | JNE2-1P2  | JNE2-1P5  | JNE2-101 | JNE2-2P2                                       | JNE2-2P5 | JNE2-201 | JNE2-202   | JNE2-203 | JNE2-401                                       | JNE2-402 | JNE2-403 |  |
|------------------------|---|---|----------|--|----------|----------|--|----------|--|----------|----------|--|
| Rated Motor Power kW   | 0.2   | 0.4   | 0.75     | 0.2  | 0.4      | 0.75     | 1.5  | 2.2      | 0.75   | 1.5      | 2.2      |  |
| Rated Motor HP         | 1/4   | 1/2   | 1        | 1/4  | 1/2      | 1        | 2  | 3        | 1  | 2        | 3        |  |
| Rated Output Current A | 1.4   | 2.3   | 4.2      | 1.4  | 2.3      | 4.2      | 7.5  | 10.5     | 2.3  | 3.8      | 5.2      |  |
| Rated Capacity kVA     | 0.53  | 0.88  | 1.6      | 0.53   | 0.88     | 1.6      | 2.9  | 4        | 1.7  | 2.9      | 4        |  |
| Input Voltage          | 1 φ 100-120V<br>(-15%~+10%),<br>50/60Hz(+/-5%)    |   |          | 1 φ 200-240V<br>(-15%~+10%),<br>50/60Hz(+/-5%) |          |          | 1/3 φ 200-240V<br>(-15%~+10%),<br>50/60Hz(+/-5%) |          | 3 φ 380-480V<br>(-15%~+10%),<br>50/60Hz(+/-5%) |          |          |  |
| Output Voltage         | 3 φ 200-240V                                      |   |          |  |          |          | 3 φ 380-480V                                     |          |  |          |          |  |
| Input Signal Type      | PNP type (SOURCE) input ( External DC24V allowed) |   |          |  |          |          |  |          |  |          |          |  |
| Control Method         | Sinusoidal wave PWM control                       |   |          |  |          |          |  |          |  |          |          |  |
| Frequency Control      | Freq. Range                                       | 1~200 Hz *1   |          |  |          |          |  |          |  |          |          |  |
|                        | Resolution  | Digital : 0.1 Hz (1~99.9Hz); 1Hz (100~200Hz), Analog : 1Hz/60Hz                           |          |  |          |          |  |          |  |          |          |  |
|                        | Keypad Setting                                    | Directly adjusted by ▲▼ buttons   |          |  |          |          |  |          |  |          |          |  |
|                        | Display   | Three digital LED display frequency / Inverter parameter / fault record / program version |          |  |          |          |  |          |  |          |          |  |
|                        | External Signal Setting                           | 0~10V, 4~20mA, 0~20mA   |          |  |          |          |  |          |  |          |          |  |
|                        | Other Function                                    | Frequency upper and lower limit   |          |  |          |          |  |          |  |          |          |  |
| General Control        | Carrier Frequency                                 | 4~16kHz *1  |          |  |          |          |  |          |  |          |          |  |
|                        | Accel/Decel Time                                  | 0.1~ 999 Sec  |          |  |          |          |  |          |  |          |          |  |
|                        | V/F Pattern                                       | 6 Patterns  |          |  |          |          |  |          |  |          |          |  |
|                        | Torque Control                                    | Torque boost level adjustable   |          |  |          |          |  |          |  |          |          |  |
|                        | Multi-function Input                              | 2 points for multi-speed 1(Sp1) /2(Sp2)*1 /Jog / Emergency stop / External bb / Reset     |          |  |          |          |  |          |  |          |          |  |
|                        | Multi-function Output                             | 1a Relay for Fault / Running / Frequency agreed function                                  |          |  |          |          |  |          |  |          |          |  |
| Protection Function    | Braking Torque                                    | 20%   |          |  |          |          | 20% ~ 100% , breaking transistor built in        |          |  |          |          |  |
|                        | Other Function                                    | Decelerate or coast to stop, Auto reset, DC braking frequency / Voltage / Time setting    |          |  |          |          |  |          |  |          |          |  |
|                        | Instantaneous over Current                        | Approx 200% rated current   |          |  |          |          |  |          |  |          |          |  |
|                        | Overload  | 150% for 1min.  |          |  |          |          |  |          |  |          |          |  |
|                        | Over Voltage                                      | DC voltage > 410V   |          |  |          |          | DC voltage > 800V                                |          |  |          |          |  |
|                        | Under Voltage                                     | DC voltage < 200V   |          |  |          |          |  |          |  |          |          |  |
|                        | Momentary Power Loss                              | 0 ~ 2 sec, restart by speed search  |          |  |          |          |  |          |  |          |          |  |
|                        | Stall Prevention                                  | Accelerate / Decelerate / Constant speed  |          |  |          |          |  |          |  |          |          |  |
|                        | Output Short Circuit                              | Electronic protection   |          |  |          |          |  |          |  |          |          |  |
|                        | Ground Fault                                      | Electronic protection   |          |  |          |          |  |          |  |          |          |  |
| Other Function         | Heat sink overheat protection , Current limit     |   |          |  |          |          |  |          |  |          |          |  |
| Enclosure              | IP20 / IP65 ( NEMA4)                              |   |          |  |          |          |  |          |  |          |          |  |
| Operating Temperature  | -10 ~ 50°C  |   |          |  |          |          |  |          |  |          |          |  |
| Humidity               | 0~95% RH non-condensing                           |   |          |  |          |          |  |          |  |          |          |  |
| Vibration              | Under 1 G ( 9.8 m/s <sup>2</sup> )                |   |          |  |          |          |  |          |  |          |          |  |
| UL                     | UL508C  |   |          |  |          |          |  |          |  |          |          |  |
| CE                     | EN50081-1, EN50082-2, EN50178                     |   |          |  |          |          |  |          |  |          |          |  |
| Installation           | Mounting screw or DIN rail (Option)               |   |          |  |          |          |  |          |  |          |          |  |

\*1 JNE2-2P2/2P5/201(CPU VERSION 1.6) have different specifications, please contact us for details.