

YD280T2S/T4 MODEL SIZE

■ YD280T2S-0P4GB~2P2GB Dimensions & Mounting hole (1-PH 200V~240V)

| Frame | Model & Type   | Mounting dimension |     | Dimensions(mm) |    |    |     | Mounting hole (mm) | Net Weight kg |
|-------|----------------|--------------------|-----|----------------|----|----|-----|--------------------|---------------|
|       |                | A                  | B   | H              | H1 | W  | D   |                    |               |
| F1    | YD280T2S-0P4GB | 74                 | 187 | 197.5          | -  | 90 | 141 | Ø5                 | 1.2           |
|       | YD280T2S-0P7GB |                    |     |                |    |    |     |                    |               |
|       | YD280T2S-1P5GB |                    |     |                |    |    |     |                    |               |
|       | YD280T2S-2P2GB |                    |     |                |    |    |     |                    |               |

■ YD280T4-0P7G/1P5PB~22GB Dimensions & Mounting hole (3-PH 380V~480V)

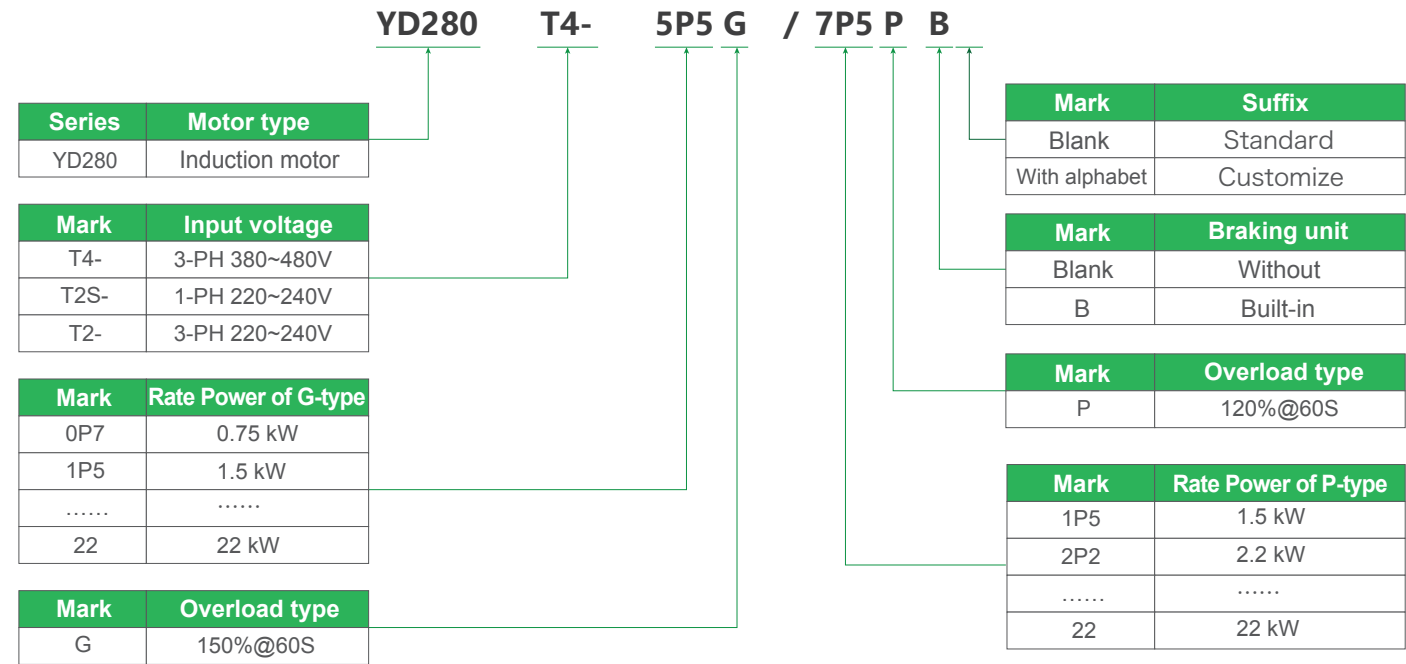
| Frame | Model & Type       | Mounting dimension |       | Dimensions(mm) |       |     |       | Mounting hole (mm) | Net Weight kg |
|-------|--------------------|--------------------|-------|----------------|-------|-----|-------|--------------------|---------------|
|       |                    | A                  | B     | H              | H1    | W   | D     |                    |               |
| F1    | YD280T4-0P7G/1P5PB | 74                 | 187   | 197.5          | -     | 90  | 141   | Ø5                 | 1.16          |
|       | YD280T4-1P5G/2P2PB |                    |       |                |       |     |       |                    | 1.2           |
|       | YD280T4-2P2G/3P0PB |                    |       |                |       |     |       |                    |               |
|       | YD280T4-3P0G/3P7PB |                    |       |                |       |     |       |                    |               |
|       | YD280T4-3P7G/5P5PB |                    |       |                |       |     |       |                    |               |
| F2    | YD280T4-5P5G/7P5PB | 90                 | 190   | 200            | 202   | 102 | 163.5 | Ø6                 | 1.75          |
|       | YD280T4-7P5GB      |                    |       |                |       |     |       |                    | 1.8           |
| F3    | YD280T4-11G/15PB   | 108.5              | 227   | 240.5          | 242.5 | 125 | 173   | Ø6.5               | 3.0           |
|       | YD280T4-15G/18P5PB |                    |       |                |       |     |       |                    |               |
| F4    | YD280T4-18P5G/22PB | 147                | 278.5 | 295            | 297   | 165 | 208.3 | Ø7                 | 5.1           |
|       | YD280T4-22GB       |                    |       |                |       |     |       |                    |               |

YD280T2 MODEL SIZE

■ YD280T2-0P4G/0P7PB~11GB Dimensions & Mounting hole (3-PH 200V~240V)

| Frame | Model & Type  | Mounting dimension |       | Dimensions(mm) |       |     |       | Mounting hole (mm) | Weight kg |
|-------|---------------|--------------------|-------|----------------|-------|-----|-------|--------------------|-----------|
|       |               | A                  | B     | H              | H1    | W   | D     |                    |           |
| F1    | YD280T2-0P4GB | 74                 | 187   | 197.5          | -     | 90  | 141   | Ø5                 | 1.25      |
|       | YD280T2-0P7GB |                    |       |                |       |     |       |                    |           |
|       | YD280T2-1P1GB |                    |       |                |       |     |       |                    |           |
|       | YD280T2-1P5GB |                    |       |                |       |     |       |                    |           |
|       | YD280T2-2P2GB |                    |       |                |       |     |       |                    |           |
| F2    | YD280T2-3P7GB | 90                 | 190   | 200            | 202   | 102 | 163.5 | Ø6                 | 1.95      |
| F3    | YD280T2-5P5GB | 108.5              | 227   | 240.5          | 242.5 | 125 | 173   | Ø6.5               | 3.1       |
|       | YD280T2-7P5GB |                    |       |                |       |     |       |                    |           |
| F4    | YD280T2-11GB  | 147                | 278.5 | 295            | 297   | 165 | 208.3 | Ø7.2               | 5.55      |

NAMING RULES



Yolico



YD280 Series  
FREQUENCY INVERTER



Yolico

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Ver: 2512

ISO9001 CE

USER MANUAL

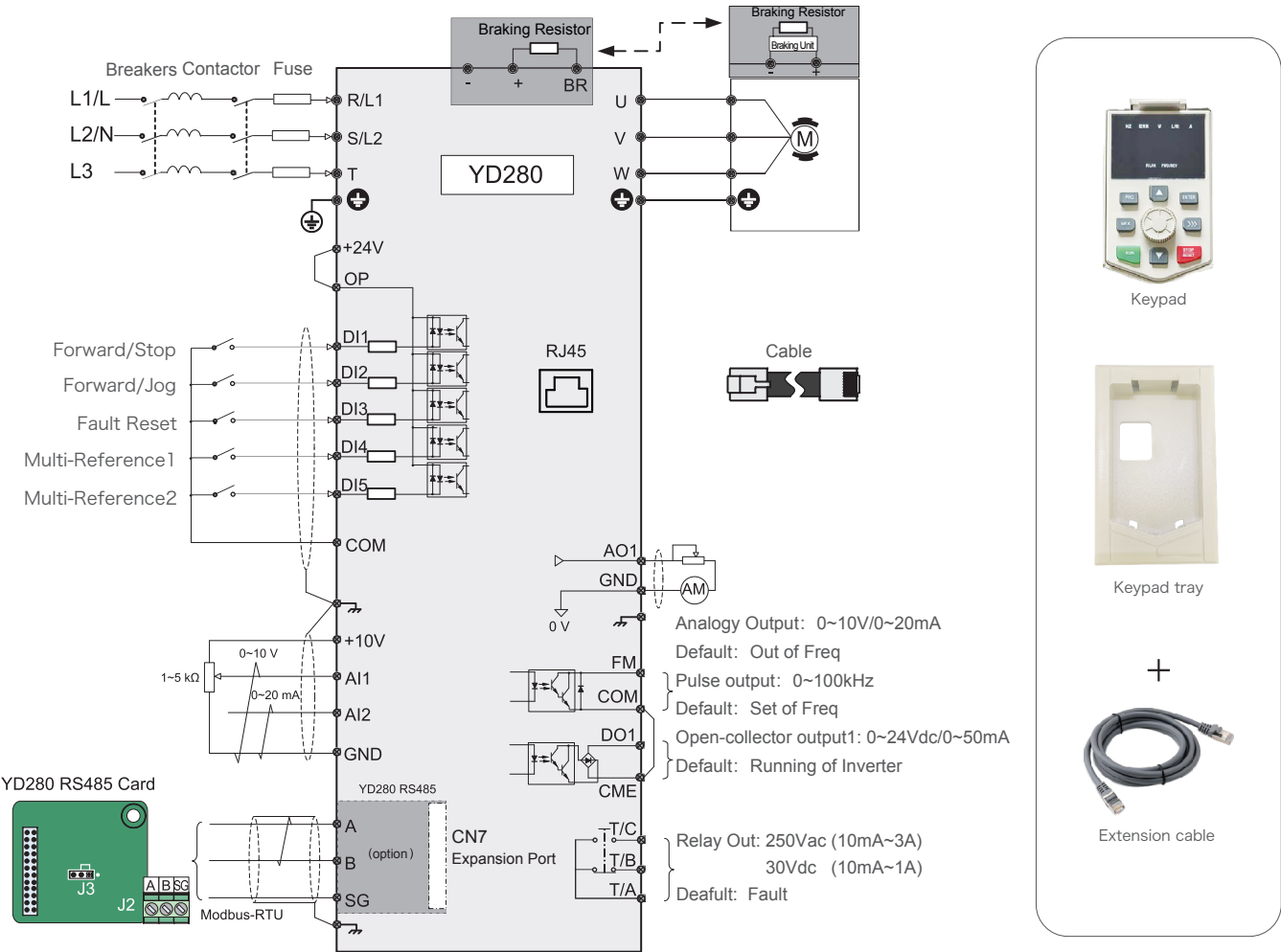


- 220V 1-PH 0.4-2.2kW
- 220V 3-PH 0.4-11kW
- 380V 3-PH 0.75-22kW

PRODUCT FEATURES

|    |                                              |    |                                            |
|----|----------------------------------------------|----|--------------------------------------------|
| 01 | Drive asynchronous induction motor           | 09 | Frequency can be set by keypad knob        |
| 02 | Heavy load (G) / light load (P) can be set   | 10 | Pluggable keypad                           |
| 03 | Braking unit built-in for whole series       | 11 | Power lost, can slow down power generation |
| 04 | Allows motor spin start and speed search     | 12 | Variety VF curves to meet multiple loads   |
| 05 | Support power loss non-stop                  | 13 | RS485,Modbus-RTU(Optional)                 |
| 06 | Load jam, OL, SC protection                  | 14 | Built-in simple PLC program control        |
| 07 | PID control built-in sleep function          | 15 | Provide virtual contacts and registers     |
| 08 | Support parallel control of master and slave | 16 | Provides password lock function            |

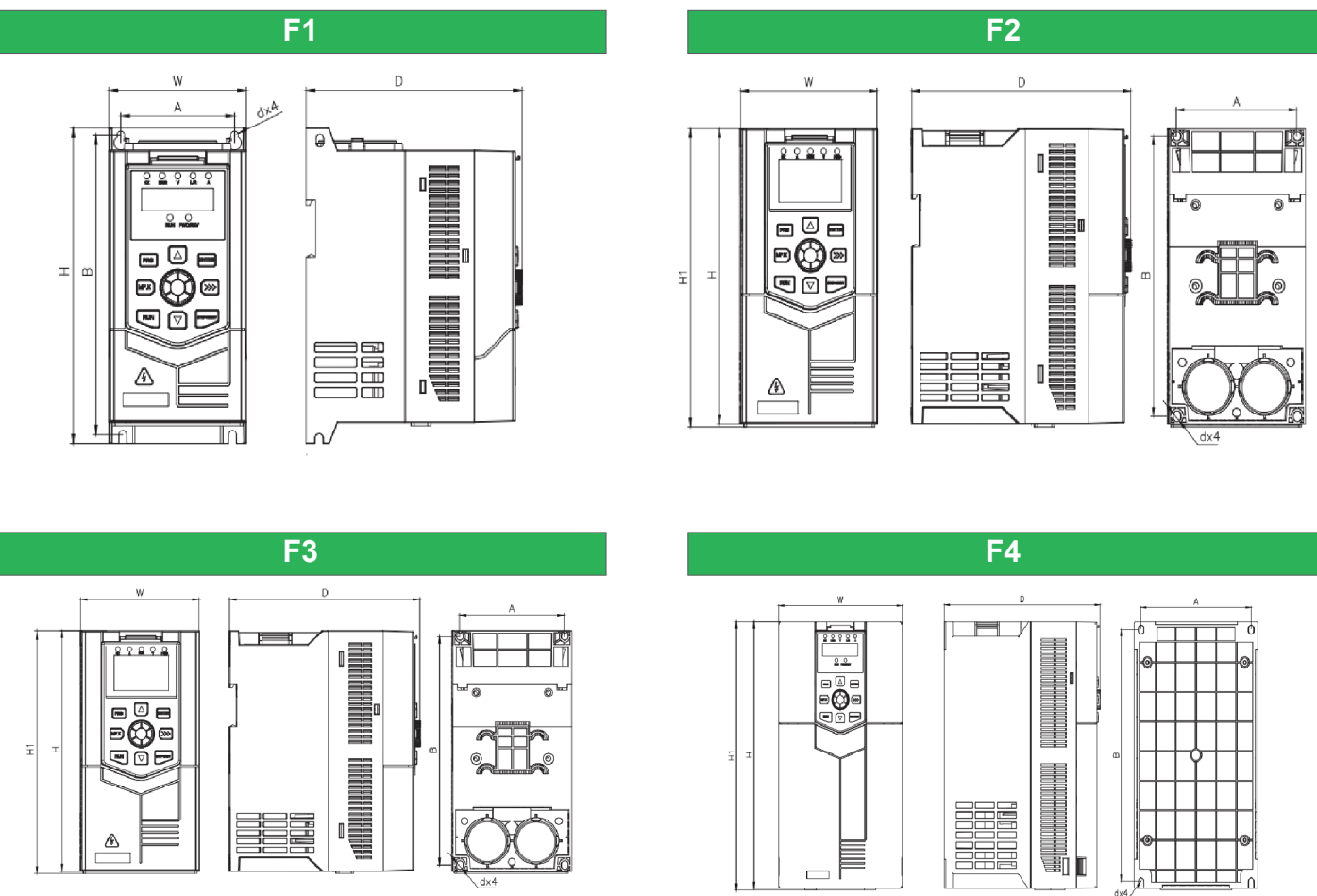
WIRING DIAGRAM



TECHNICAL DATA

| Item        |                     | Description                                                                             |
|-------------|---------------------|-----------------------------------------------------------------------------------------|
| BASIC       | Control Mode        | V/F Control, Sensorless Vector Control(SVC), Open loop Torque Control                   |
|             | Frequency range     | 0~500Hz                                                                                 |
| RUNNING     | Input terminals     | 5 Digital input terminals (DI1-DI5) ; Isolated type                                     |
|             |                     | 2 Analog input terminals (0~10V of AI1 and 0~10V or 4~20mA of AI2)                      |
|             | Output terminals    | 1 Pulse output terminal, support 0~100kHz square wave output                            |
|             |                     | 1 DO output terminal, 1 Realy TA/TB/TC output terminal                                  |
| ENVIRONMENT | Communication bus   | 1 Analog output terminal ( 0~10V or 4~20mA of AO1)                                      |
|             | Places used         | RS485 Modbus-RTU                                                                        |
|             | Ambient temperature | IP20, free of dust, corrosion, flammable gas, oil mist, water vapor, dripping water etc |
|             |                     | -10°C~ 40°C, de-rated when it exceeds 40°C                                              |

STRUCTURAL APPEARANCE



YD280T2S/T4 SELECTION TABLE

| 1-PH 200V~240V            |                 |                      |                   |                    |                  |      |            |
|---------------------------|-----------------|----------------------|-------------------|--------------------|------------------|------|------------|
| Model & Type              | Rate Power Type | Power capacity (kVA) | Input current (A) | Output current (A) | Applicable motor |      | Frame size |
|                           |                 |                      |                   |                    | (kW)             | (HP) |            |
| 1-PH: 200-240Vac, 50/60Hz |                 |                      |                   |                    |                  |      |            |
| YD280T2S-0P4GB            | G               | 1.4                  | 5.4               | 2.3                | 0.4              | 1/2  | F1         |
| YD280T2S-0P7GB            | G               | 2.2                  | 8.0               | 3.8                | 0.75             | 1    |            |
| YD280T2S-1P5GB            | G               | 3.7                  | 15.0              | 7.2                | 1.5              | 2    |            |
| YD280T2S-2P2GB            | G               | 6.0                  | 11.4              | 9.0                | 2.2              | 3    |            |

| 3-PH 380V~480V            |                 |                      |                   |                    |                  |      |            |
|---------------------------|-----------------|----------------------|-------------------|--------------------|------------------|------|------------|
| Model & Type              | Rate Power Type | Power capacity (kVA) | Input current (A) | Output current (A) | Applicable motor |      | Frame size |
|                           |                 |                      |                   |                    | (kW)             | (HP) |            |
| 3-PH: 380-480Vac, 50/60Hz |                 |                      |                   |                    |                  |      |            |
| YD280T4-0P7G/1P5PB        | G               | 2.8                  | 2.4               | 2.1                | 0.75             | 1    | F1         |
|                           | P               | 5.0                  | 4.6               | 3.8                | 1.5              | 2    |            |
| YD280T4-1P5G/2P2PB        | G               | 5.0                  | 4.6               | 3.8                | 1.5              | 2    |            |
|                           | P               | 6.7                  | 6.3               | 5.1                | 2.2              | 3    |            |
| YD280T4-2P2G/3P0PB        | G               | 6.7                  | 6.3               | 5.1                | 2.2              | 3    |            |
|                           | P               | 9.5                  | 9.0               | 7.2                | 3.0              | 4    |            |
| YD280T4-3P0G/3P7PB        | G               | 9.5                  | 9.0               | 7.2                | 3.0              | 4    |            |
|                           | P               | 12.0                 | 11.4              | 9.0                | 3.7              | 5    |            |
| YD280T4-3P7G/5P5PB        | G               | 12.0                 | 11.4              | 9.0                | 3.7              | 5    |            |
|                           | P               | 17.5                 | 16.7              | 13.0               | 5.5              | 7.5  |            |
| YD280T4-5P5G/7P5PB        | G               | 17.5                 | 16.7              | 13.0               | 5.5              | 7.5  | F2         |
|                           | P               | 22.8                 | 21.9              | 17.0               | 7.5              | 10   |            |
| YD280T4-7P5GB             | G               | 22.8                 | 21.9              | 17.0               | 7.5              | 10   | F3         |
| YD280T4-11G/15PB          | G               | 33.4                 | 32.2              | 25.0               | 11               | 15   |            |
|                           | P               | 42.8                 | 41.3              | 32.0               | 15               | 20   |            |
| YD280T4-15G/18P5PB        | G               | 42.8                 | 41.3              | 32.0               | 15               | 20   |            |
|                           | P               | 45.0                 | 49.5              | 37.0               | 18.5             | 25   |            |
| YD280T4-18P5G/22PB        | G               | 45.0                 | 49.5              | 37.0               | 18.5             | 25   | F4         |
|                           | P               | 54.0                 | 59.0              | 45.0               | 22               | 30   |            |
| YD280T4-22GB              | G               | 54.0                 | 59.0              | 45.0               | 22               | 30   |            |

YD280T2 SELECTION TABLE

| 3-PH 200V~240V            |                 |                      |                   |                    |                  |      |            |
|---------------------------|-----------------|----------------------|-------------------|--------------------|------------------|------|------------|
| Model & Type              | Rate Power Type | Power capacity (kVA) | Input current (A) | Output current (A) | Applicable motor |      | Frame size |
|                           |                 |                      |                   |                    | (kW)             | (HP) |            |
| 3-PH: 200-240Vac, 50/60Hz |                 |                      |                   |                    |                  |      |            |
| YD280T2-0P4GB             | G               | 1.1                  | 2.4               | 2.1                | 0.4              | 0.5  | F1         |
| YD280T2-0P7GB             | G               | 2.1                  | 4.6               | 3.8                | 0.75             | 1    |            |
| YD280T2-1P1GB             | G               | 2.9                  | 6.3               | 5.1                | 1.1              | 1.5  |            |
| YD280T2-1P5GB             | G               | 4.2                  | 9.0               | 7.2                | 1.5              | 2    |            |
| YD280T2-2P2GB             | G               | 5.3                  | 11.4              | 9.0                | 2.2              | 3    |            |
| YD280T2-3P7GB             | G               | 7.7                  | 16.7              | 13.0               | 3.7              | 5    | F2         |
| YD280T2-5P5GB             | G               | 14.8                 | 32.2              | 25.0               | 5.5              | 7.5  | F3         |
| YD280T2-7P5GB             | G               | 18.9                 | 41.3              | 32.0               | 7.5              | 10   | F4         |
| YD280T2-11GB              | G               | 27                   | 59                | 45.0               | 11               | 15   |            |