

MODEL SIZE

■ YD180T2S-0P4(B)~2P2(B) Dimensions & Mounting hole (1-PH 200V~240V)

| Frame | Model & Type    | Mounting dimension (mm) |     | Dimensions(mm) |    |       | Mounting hole (mm) | Weight kg |
|-------|-----------------|-------------------------|-----|----------------|----|-------|--------------------|-----------|
|       |                 | A                       | B   | H              | W  | D     |                    |           |
| F1    | YD180T2S-0P4(B) | 60                      | 158 | 172.3          | 79 | 128.5 | M5                 | 0.9       |
|       | YD180T2S-0P7(B) |                         |     |                |    |       |                    |           |
|       | YD180T2S-1P5(B) |                         |     |                |    |       |                    |           |
| F2    | YD180T2S-2P2(B) | 68                      | 170 | 190.5          | 86 | 145   | M4                 | 1.2       |

■ YD180T4-0P7(B)~2P2(B) Dimensions & Mounting hole(3-PH 380V~480V)

| Frame | Model & Type   | Mounting dimension (mm) |     | Dimensions(mm) |    |       | Mounting hole (mm) | Weight kg |
|-------|----------------|-------------------------|-----|----------------|----|-------|--------------------|-----------|
|       |                | A                       | B   | H              | W  | D     |                    |           |
| F1    | YD180T4-0P7(B) | 60                      | 158 | 172.3          | 79 | 128.5 | M5                 | 0.8       |
|       | YD180T4-1P5(B) |                         |     |                |    |       |                    |           |
| F2    | YD180T4-2P2(B) | 68                      | 170 | 190.5          | 86 | 145   | M4                 | 1.15      |

SELECTION TABLE

■ 1-PH 200V~240V

| Model & Type               | Power capacity<br>(kVA) | Input current<br>(A) | Output current<br>(A) | Applicable motor |      | Frame size |
|----------------------------|-------------------------|----------------------|-----------------------|------------------|------|------------|
|                            |                         |                      |                       | (kw)             | (HP) |            |
| 1-PH : 200-240VAC, 50/60HZ |                         |                      |                       |                  |      |            |
| YD180T2S-0P4(B)            | 1.4                     | 5.4                  | 2.3                   | 0.4              | 1/2  | F1         |
| YD180T2S-0P7(B)            | 2.2                     | 8.0                  | 3.8                   | 0.75             | 1    |            |
| YD180T2S-1P5(B)            | 3.7                     | 15.0                 | 7.2                   | 1.5              | 2    |            |
| YD180T2S-2P2(B)            | 6.0                     | 11.4                 | 9.0                   | 2.2              | 3    | F2         |

■ 3-PH 380V~480V

| Model & Type              | Power capacity<br>(kVA) | Input current<br>(A) | Output current<br>(A) | Applicable motor |      | Frame size |
|---------------------------|-------------------------|----------------------|-----------------------|------------------|------|------------|
|                           |                         |                      |                       | (kw)             | (HP) |            |
| 3-PH: 380-480VAC, 50/60HZ |                         |                      |                       |                  |      |            |
| YD180T4-0P7(B)            | 2.8                     | 2.4                  | 2.1                   | 0.75             | 1    | F1         |
| YD180T4-1P5(B)            | 5.0                     | 4.6                  | 3.8                   | 1.5              | 2    |            |
| YD180T4-2P2(B)            | 6.7                     | 6.3                  | 5.1                   | 2.2              | 3    | F2         |



YD180 Series

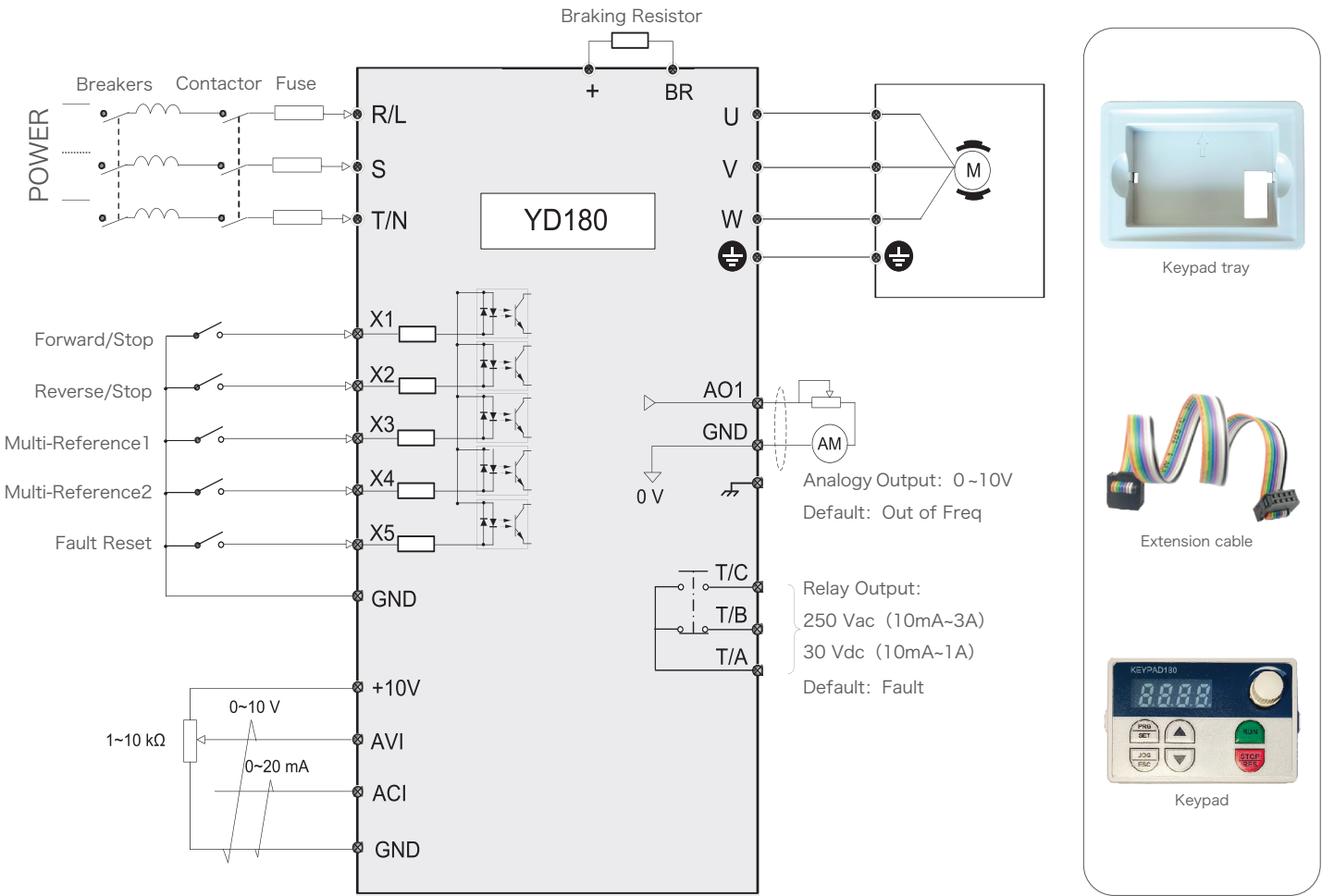
FREQUENCY INVERTER



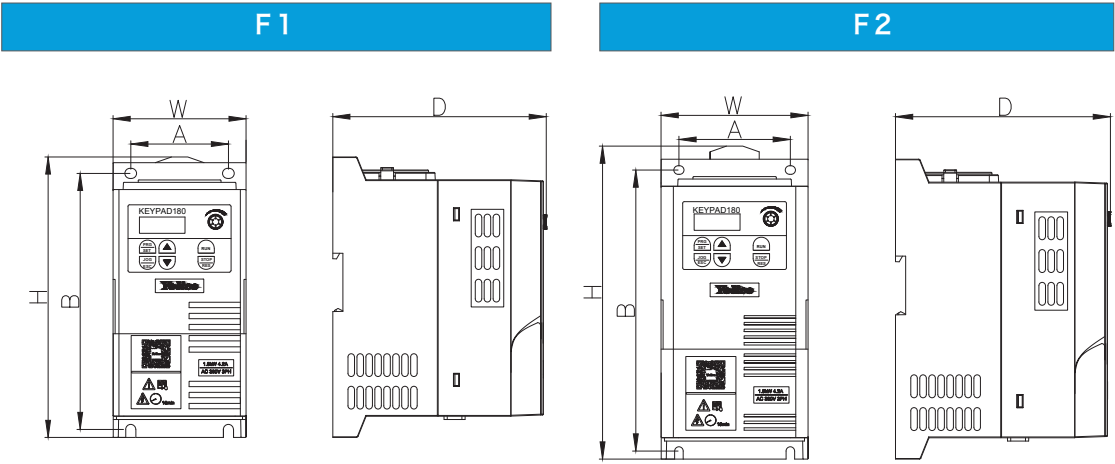
PRODUCT FEATURES

|    |                                          |    |                                         |
|----|------------------------------------------|----|-----------------------------------------|
| 01 | Overload capacity 150% for 1 minute      | 08 | Load jam, OL, SC protection             |
| 02 | Braking unit built-in for whole series   | 09 | OH, OV, phase loss protection           |
| 03 | Frequency can be set by keypad knob      | 10 | Pump-specific control function          |
| 04 | Variety VF curves to meet multiple loads | 11 | Swing frequency needle spinning control |
| 05 | Support power loss non-stop              | 12 | SVC mode can do auto-tuning             |
| 06 | PID control built-in sleep function      | 13 | Allows automatic reset of faults        |
| 07 | Motor light-load shock suppression       | 14 | Pluggable keypad                        |

WIRING DIAGRAM



STRUCTURAL APPEARANCE



NAMING RULES

|        |                 |      |               |               |           |       |              |
|--------|-----------------|------|---------------|---------------|-----------|-------|--------------|
| YD180  |                 | T4-  |               | 1P5           |           | B     |              |
| Series | Motor type      | Mark | Input voltage | Mark          | Suffix    | Mark  | Braking unit |
| YD180  | Induction motor | T2S- | 1-220 Vac     | Blank         | Standard  | Blank | Without      |
|        |                 | T4-  | 3-380 Vac     | With alphabet | Customize | B     | Built-in     |
| Mark   | Power ratings   |      |               |               |           |       |              |
| 0P4    | 0.4 kW          |      |               |               |           |       |              |
| 0P7    | 0.75 kW         |      |               |               |           |       |              |
| 1P5    | 1.5 kW          |      |               |               |           |       |              |
| 2P2    | 2.2 kW          |      |               |               |           |       |              |

TECHNICAL DATA

| Item        |                     | Description                                                                                      |
|-------------|---------------------|--------------------------------------------------------------------------------------------------|
| BASIC       | Control Mode        | V/F Control, Sensorless Vector Control(SVC)                                                      |
|             | Frequency range     | 0 ~ 400HZ                                                                                        |
| RUNNING     | Frequency source    | Keypad keys, keypad potentiometer, terminal digital input, terminal analog input                 |
|             | Input terminals     | 5 Digital terminals (X1-X5) ; 2 Analog terminals (0~10V voltage AVI and 4~20mA current ACI)      |
| KEYPAD      | Output terminals    | 1 Analog terminal AO1 (0-10V); 1 Relay terminal TA/TB/TC                                         |
|             | Panel functions     | 4 LED digital tube displays, 6 buttons, 1 potentiometer.                                         |
| ENVIRONMENT | Places used         | IP20, free of dust, corrosion, flammable gas, oil mist, water vapor, dripping water or salt, etc |
|             | Ambient temperature | -10°C~ 40°C, de-rated when it exceeds 40°C                                                       |