



Model

YD280 T4- 18P5G / 22P B

| Mark | Type |
|--------|-------------|
| YD280 | Async-motor |
| YD280E | Sync-motor |

| Mark | Voltage |
|------|----------|
| T2S- | 1-220VAC |
| T4- | 3-380VAC |

| Mark | Power |
|------|--------|
| P7 | 0.75kW |
| 1P5 | 1.5kW |
| ... | ... |
| 22 | 22kW |

| Mark | Overload |
|------|----------|
| G | 150%*60s |

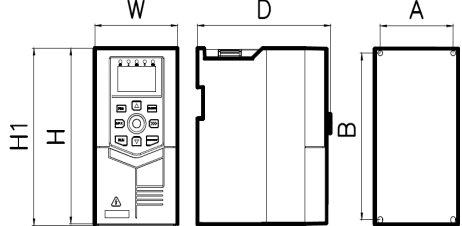
| Mark | Suffix |
|---------|----------|
| Null | Standard |
| No-null | Special |

| Mark | Brake unit |
|------|------------|
| Null | Without |
| B | Inbuilt |

| Mark | Overload |
|------|----------|
| P | 120%*60s |

| Mark | Power |
|------|-------|
| 1P5 | 1.5kW |
| 2P2 | 2.2kW |
| ... | ... |
| 22 | 22kW |

Dimension



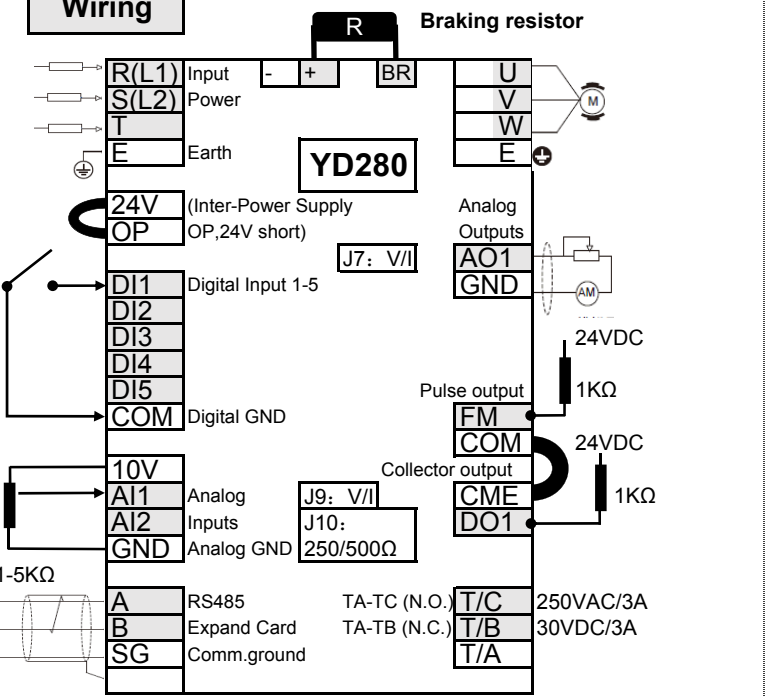
| Case | Mounting holes | | Dimensions(mm) | | | | Pore mm |
|------|----------------|-------|----------------|-------|-----|-------|---------|
| | A | B | H | H1 | W | D | |
| F1 | 74 | 187 | 197.5 | - | 90 | 141 | φ5 |
| F2 | 90 | 190 | 200 | 202 | 102 | 163.5 | φ6 |
| F3 | 108.5 | 227 | 240.5 | 242.5 | 125 | 173 | φ6.5 |
| F4 | 147 | 278.5 | 295 | 297 | 165 | 208.3 | φ7 |

Elec-Selection

| 1-PH 200V~240VAC | | | | | |
|------------------|------|----------|------------|--------|------|
| Machine Model | Load | Cap(KVA) | Rate lo(A) | Po(kW) | Case |
| YD280T2S-0P4GB | G | 1.4 | 2.3 | 0.4 | F1 |
| YD280T2S-0P7GB | G | 2.2 | 3.8 | 0.75 | |
| YD280T2S-1P5GB | G | 3.7 | 7.2 | 1.5 | |
| YD280T2S-2P2GB | G | 6.0 | 9.0 | 2.2 | |

| 3-PH 380V~480VAC | | | | | |
|--------------------|------|----------|------------|--------|------|
| Machine Model | Load | Cap(KVA) | Rate lo(A) | Po(kW) | Case |
| YD280T4-0P7G/1P5PB | G | 2.8 | 2.1 | 0.4 | F1 |
| | P | 5.0 | 3.8 | 0.75 | |
| YD280T4-1P5G/2P2PB | G | 5.0 | 3.8 | 0.75 | |
| | P | 6.7 | 5.1 | 1.5 | |
| YD280T4-2P2G/3P0PB | G | 6.7 | 5.1 | 1.5 | F2 |
| | P | 9.5 | 7.2 | 2.2 | |
| YD280T4-3P0G/3P7PB | G | 9.5 | 7.2 | 2.2 | |
| | P | 12.0 | 9.0 | 3.7 | |
| YD280T4-3P7G/5P5PB | G | 12.0 | 9.0 | 3.7 | F3 |
| | P | 17.5 | 13.0 | 5.5 | |
| YD280T4-5P5G/7P5PB | G | 17.5 | 13.0 | 5.5 | |
| | P | 22.8 | 17.0 | 7.5 | |
| YD280T4-7P5GB | G | 22.8 | 17.0 | 7.5 | F4 |
| | P | 33.4 | 25.0 | 11 | |
| YD280T4-11G/15PB | G | 42.8 | 32.0 | 15 | |
| | P | 42.8 | 32.0 | 15 | |
| YD280T4-15G/18P5PB | G | 45.0 | 37.0 | 18.5 | F4 |
| | P | 45.0 | 37.0 | 18.5 | |
| YD280T4-18P5G/22PB | G | 45.0 | 37.0 | 18.5 | |
| | P | 54.0 | 45.0 | 22 | |
| YD280T4-22GB | G | 54.0 | 45.0 | 22 | |

Wiring



Braking Resistor

| Model | R(Ω) | Po W(10%) |
|--------------------|------|-----------|
| YD280T2S-0P4GB | 200 | 80 |
| YD280T2S-0P7GB | 150 | 80 |
| YD280T2S-1P5GB | 100 | 100 |
| YD280T2S-2P2GB | 70 | 100 |
| YD280T4-0P7G/1P5PB | 800 | 140 |
| YD280T4-1P5G/2P2PB | 380 | 300 |
| YD280T4-2P2G/3P0PB | 260 | 440 |
| YD280T4-3P0G/3P7PB | 190 | 600 |
| YD280T4-3P7G/5P5PB | 150 | 740 |
| YD280T4-5P5G/7P5PB | 100 | 1.1K |
| YD280T4-7P5GB | 75 | 1.5K |
| YD280T4-11G/15PB | 50 | 2.2K |
| YD280T4-15G/18P5PB | 38 | 3K |
| YD280T4-18P5G/22PB | 32 | 4K |
| YD280T4-22GB | 27 | 4.5K |

Fault codes

| Code | Name |
|-------|------------------------------------|
| Err02 | Over-current(acc) |
| Err03 | Over-current(dec) |
| Err04 | Over-current(const) |
| Err05 | Over-voltage(acc) |
| Err06 | Over-voltage(dec) |
| Err07 | Over-voltage(const) |
| Err08 | Pre-charge fault |
| Err09 | under-voltage |
| Err10 | Driver overload |
| Err11 | Motor overload |
| Err12 | Input phase loss |
| Err13 | Output phase loss |
| Err14 | IGBT over-heat |
| Err15 | External fault |
| Err16 | Communication fault |
| Err17 | Contact fault |
| Err18 | Current detect fault |
| Err19 | Auto-tuning fault |
| Err21 | EEPROM fault |
| Err23 | Ground short fault |
| Err26 | Accumulative runing time reached |
| Err27 | User-defined fault 1 |
| Err28 | User-defined fault 2 |
| Err29 | Accumulative power on time reached |
| Err30 | Load loss |
| Err31 | PID feedback lost during running |
| Err40 | Current limit fault |
| Err41 | Motor switch fault |
| Err45 | Motor over-temperature |
| Err55 | Master-slavor control slavor fault |
| Err61 | Brake Unit overload |
| Err62 | Brake Unit overcurrent |
| Err64 | Back EMF fault when auto-tuning |

Commonly used communication control addresses

| Fun(Write) | Address | Content |
|----------------------------|---------|--|
| Operation P0-02=2 PD-05=31 | 2000H | 1: Forward rotation 2: Reversion rotation 5: Free Run 6: Deceleration stops |
| frequency P0-03=9 PD-05=31 | 1000H | 1: ±10000±100.00% 2: 100% to P0-10 3: P0-05=0 |

Commonly used communication monitoring addresses

| Fun | Name | Unit | Addr |
|-------|----------------|--------|-------|
| U0-00 | Run frequency | 0.01Hz | 7000H |
| U0-01 | Set Frequency | 0.01Hz | 7001H |
| U0-02 | DC BUS voltage | 0.1V | 7002H |
| U0-03 | Output voltage | 1V | 7003H |
| U0-04 | Output current | 0.01A | 7004H |
| U0-05 | Output power | 0.1kW | 7005H |
| U0-06 | Output torque | 0.1% | 7006H |
| U0-07 | DI status | 1 | 7007H |
| U0-08 | DO status | 1 | 7008H |

Parts

| No | Items | Order number |
|----|------------------|--------------|
| 1 | YD280 RS485 Card | YKEY062 |

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