



Connection description

- Connection requirements**
1. Power line Three-color power line and yellow-green earthing line  
Temperature control line 110°C thermistor two-piece fine wires
  2. Cooling effluent
  3. Tool changing/dust removal pressure 0.4MPa
  4. Air seal pressure 0.2MPa
  5. Tool discharge and air feed pressure 0.70MPa
  6. Cooling water feed Pump lift 12m (avoid wrong connection)
  7. Proximity switch: for tool discharge and hanging NPN (normally open) N. O.
  8. Handle of the lifting sling

1. Three-color power line connected with U, V and W phases of frequency converter, and the yellow-green wire connected with the earth wire  
Temperature control line connected with the temperature control protector
2. Rapid inserted connecting pipe for the cooling effluent is 8/6 hoses
3. Rapid inserted connecting pipe for the cooling effluent is 6/4 hoses
4. Rapid inserted connecting pipe for the air seal is 6/4 hoses
5. Rapid inserted connecting pipe for the tool discharge and air feed is 6/4 hoses
6. Rapid inserted connecting pipe for the cooling influent is 8/6 hoses
7. Brown wire of the proximity switch connected with +24VDC Blue wire connected with 0VDC  
One terminal of the signal load connected with +24VDC/the other terminal connected with the black wire
8. Installation and use of the handle of the lifting sling

| PTC three-core thermistor parameter |                             |
|-------------------------------------|-----------------------------|
| DC power supply                     | Maximum DC25V/100mA         |
| -20~25℃                             | ≤300Ω                       |
| ≤90℃                                | ≤750Ω                       |
| 105℃                                | ≤1650Ω                      |
| 110℃                                | Rated operating temperature |
| 115℃                                | ≥3990Ω                      |
| ≥125℃                               | ≥12KΩ                       |
| ≤160℃                               | Maximum storage temperature |

|                    |  |
|--------------------|--|
| Model              | GDL 150-40-12/12   |
| Voltage            | 380 V  |
| Power              | 12 kw  |
| Current            | 25 A   |
| Frequency          | 400 Hz   |
| Rotating speed     | 12000 rpm  |
| Pole number        | 4P   |
| Phase number       | 3  |
| Bearing            | 2×SM6011C P4 Steel ball 2×7008C P4 Steel ball The dedicated grease for the imported high-speed bearing |
| Rotating direction | Rotate anticlockwise from the shaft extension end  |
| Tool holder        | BT 40 without (Parfaite is recommended)  |
| Blind rivet        | BT40-45° (Parfaite is recommended)   |
| Weight             | 50 KG  |

Special warning:

1. Improper clamped position of electric main shaft will easily result in the damage of the bearing!
2. The main shaft shall entirely stop before the tool changing. The manual tool changing button shall not act during the rotation of the main shaft; otherwise it will easily result in the seizure of the shaft!
3. The compressed air shall be clean and dry. And the filter accuracy is 0.1um! The air seal is normally open. It is recommended to use the two-level filtration, with the filtration accuracy of 0.5um/0.1um respectively. The compressed air filter shall be installed with the self-discharge device.

|              |                  |        |                          |           |      |                 |        |       |                  |  |  |
|--------------|------------------|--------|--------------------------|-----------|------|-----------------|--------|-------|------------------|--|--|
|              |                  |        |                          |           |      | Outline diagram |        |       |                  |  |  |
| Marks        | Number of places | Zoning | Modified document number | Signature | Date |                 |        |       |                  |  |  |
| Designed by  |                  |        | Standardized by          |           |      | Phase mark      | Weight | Scale |                  |  |  |
| Reviewed by  |                  |        |                          |           |      |                 |        |       |                  |  |  |
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