



1:Power line: Tricolor lines connected to U,V, W/  
yellow-green line connected to ground  
Temperature control line: two-phase of 110°C thermistor  
connected to temperature protector  
2:Dust removal pressure: 0.2~0.3MPa(6/4 hose)  
3:Air seal pressure: 0.1~0.2MPa(6/4 hose)  
4:Cooling water outlet: End 4 and 8 are connected with 8/6 hose  
5:Quantity of proximity switches: Two PNP(normally  
open)N.O. for tool-mounting and tool-removing  
Connection of proximity switch: Brown line connected  
to +24VDC , and blue line connected to 0VDC  
Signal loading end connected to 0VDC/ the other end connected to  
black line  
6:Suction pressure: 0.65MPa(6/4 hose)  
7:Backup interface  
8:Cooling water inlet: delivery of water pump head 8m  
9:Blade removal pressure: 0.65MPa(6/4 hose)

Model: GDL80-20-24Z/2.2B  
Voltage: 220V  
Power: 2.2KW  
Current: 7.6A  
Frequency: 800Hz  
Rotational speed: 24000rpm  
Number of Pole: 4P  
Phase: 3  
Rotation Direction:  
Counterclockwise viewed from the  
end of spindle extension  
Tool Holder: ISO20(Parfaite  
recommended)  
Pop-rivet: ISO20-15° (Parfaite  
recommended)  
Weight: Approx 9Kg

| Parameters of PTC single-core<br>thermistor |                                |
|---|--------------------------------|
| DC Power Supply                             | Maximum 25V/100mA              |
| -20~25°C                                    | ≤100Ω                          |
| ≤90°C                                       | ≤250Ω                          |
| 105°C                                       | ≤550Ω                          |
| 110°C                                       | Rated function temperature     |
| 115°C                                       | ≥1330Ω                         |
| ≥125°C                                      | ≥4KΩ                           |
| ≤160°C                                      | Maximum storage<br>temperature |

#### Special Warning

- 1.The spindle shall be mounted to the clamping position, otherwise it would damage the bearing!
2. It shall not change tools before complete stop of spindle. The manual tool-changing button shall be unavailable while spindle is rotating, otherwise it would cause the block of spindle!
3. The cylinder must return to its initial position (piston reset) before starting the spindle, otherwise it may cause spindle jamming!
4. Air seal must remain normally open!
5. Tool change must be performed with the air purge path activated to prevent dust or debris from entering the spindle!
6. The compressed air shall be clean and dry with filtering precision of 0.1 μm! Air sealing shall be normally open. It is recommended to apply two levels of filtering with precisions of 0.5 μm/0.1 μm, and the filter shall be equipped with automatic drainage.

| 标记          | 处数 | 分区 | 更改文件号 | 签 名 | 年、月、日 | 阶段标记 | 重量 | 比例    |
|-------------|----|----|-------|-----|-------|------|----|-------|
| 设计          |    |    | 标准化   |     |       |      |    |       |
| 审核          |    |    |       |     |       |      |    |       |
| 工艺          |    |    | 批准    |     |       | S    |    | 1:1.5 |
| 共 1 张 第 1 张 |    |    |       |     |       |      |    |       |

Jiangsu HAD Spindle Motor Co., Ltd.

Profile drawing

GDL80-20-24Z/2.2B-00-1

|                   |
|-------------------|
| 备(通)用<br>件 堆<br>记 |
| 旧底图总号             |
| 底图总号              |
| 签字                |
| 日期                |
| 档案员               |
| 日期                |