



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:Cooling water outlet: (End 2 and 7 are connected with  
 8/6 hose)  
 3:Pressure for air return: 0.70MPa (6/4 hose)  
 4:Pressure for tool changing and de-dusting: 0.2-0.3MPa  
 (6/4 hose)  
 5:Pressure of air sealing: 0.1-0.2MPa(6/4 hose)  
 6:Encoder: reserved interface (no encoder for this model)  
 7:Cooling water inlet: delivery of water pump head 12m  
 (Don't connect wrong!)  
 8:Quantity of proximity switches: Two NPN(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 +24VDC/the other end  
 connected to black line  
 9:Inlet air pressure for tool removing: 0.70MPa(6/4 hose)  
 10:Hanging ring: applied for mounting

Parameters of PTC three-core thermistor	
DC Power Supply	MaximumDC25V/10.0mA
-20~25°C	≤300Ω
≤90°C	≤750Ω
105°C	≤1650Ω
110°C	Rated function temperature
115°C	≥3990Ω
≥125°C	≥12KΩ
≤160°C	Maximum storage temperature

Model: GDL120-30-24Z/6.5

Voltage: 220V

Power: 6.5kw

Current: 23.0A

Frequency: 800Hz

Rotational speed: 24000rpm

Number of Pole: 4P

Phase: 3

Rotation Direction: Counterclockwise viewed from the  
 end of spindle extension

Tool Holder: BT30 (Parfaite recommended)

Pop-rivet: BT30-45° (Parfaite recommended)

Weight: 25KG

#### 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 spindle can only be started after air return for air cylinder (piston reset),otherwise, it may cause the spindle stucked!
- 4.It shall ensure the dedusting air circuit is open to prevent dust or foreign materials from entering the spindle while changing tools!
- 5.The air seal shall be kept normally open!
- 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 0.5μm/0.1μm, and the filter shall be equipped with automatic drainage.
- 7.During the operation, the frequency converter shall be set strictly according to the U-f curve of the spindle

							General cylinder	Jiangsu HAD Spindle Motor Co., Ltd.
标记	处数	分区	更改文件号	签名	年、月、日	阶段标记		
设计			标准化			重量		
审核						比例		
工艺			批准			S	1:2	GDL120-30-24Z/6.5
						共 1 张 第 1 张		