



- 1:Power line: Tricolor lines connected to U,V, W/
yellow-green line connected to ground
Temperature control line: two-phase of 110℃ thermistor
connected to temperature protector
2:Cooling water outlet: (End 2 and 7 are connected with 8/6 hose)
3:Air return: 0.4-0.7MPa (6/4 hose)
4:Tool changing and dust-removing: 0.3-0.4MPa(6/4 hose)
5:Air seal: 0.1-0.2MPa(6/4 hose)
6:Encoder: Optional string wave(1Vpp) or square wave(TTL)
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:Air inlet while tool removing: 0.4-0.7MPa(6/4 hose)
10:Hanging ring: applied for mounting

Parameters of PTC three-core thermistor	
DC Power Supply	Maximum DC 25V/100mA
-20~25℃	≤300Ω
≤90℃	≤750Ω
105℃	≤1650Ω
110℃	Rated function temperature
115℃	≥3990Ω
≥125℃	≥12KΩ
≤160℃	Maximum storage temperature

Model: GDL125-40-12Z/7.5
Voltage: 380V
Power: 7.5kw
Current: 16.5A
Frequency: 600Hz
Rotational speed: 12000rpm
Number of Pole: 6P
Phase: 3
Rotation Direction: Counterclockwise viewed from the
end of spindle extension
Tool Holder: BT40 (Parfaite recommended)
Pop-rievet: BT40-45° (Parfaite recommended)
Weight: 35KG

Special warning:
1.The spindle shall be mounted to the clamping position;otherwise it would damage the bearing!
2.If 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 stuck!
4.It shall ensure the dedusting air circuit is open to prevent dust or foreignmaterials 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.

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图底图号

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参 考

日 期

制表员 日 期

						General cylinder			Jiangsu HQD Spindle Motor Co., Ltd.
									Profile drawing
标记	处数	分区	更改文件号	签名	年、月、日	阶段标记	重量	比例	GDL125-40-12Z/7.5
设计			标准化			S		1:2	
审核									
工艺			批准			共 1 张 第 1 张			