

Z068/ES & LSF

Electric High-Speed Asynchronous Motors



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Z068/HIGH-SPEED MOTOR

ELECTRO SPINDLE MANUAL

Our electro spindles are designed for engraving, milling drilling purpose, and for material of non-metal, light metal machining.

1. Main specifications

Refer to label on spindle. And/or attached sheets.

2. Installation, Operation and maintenance

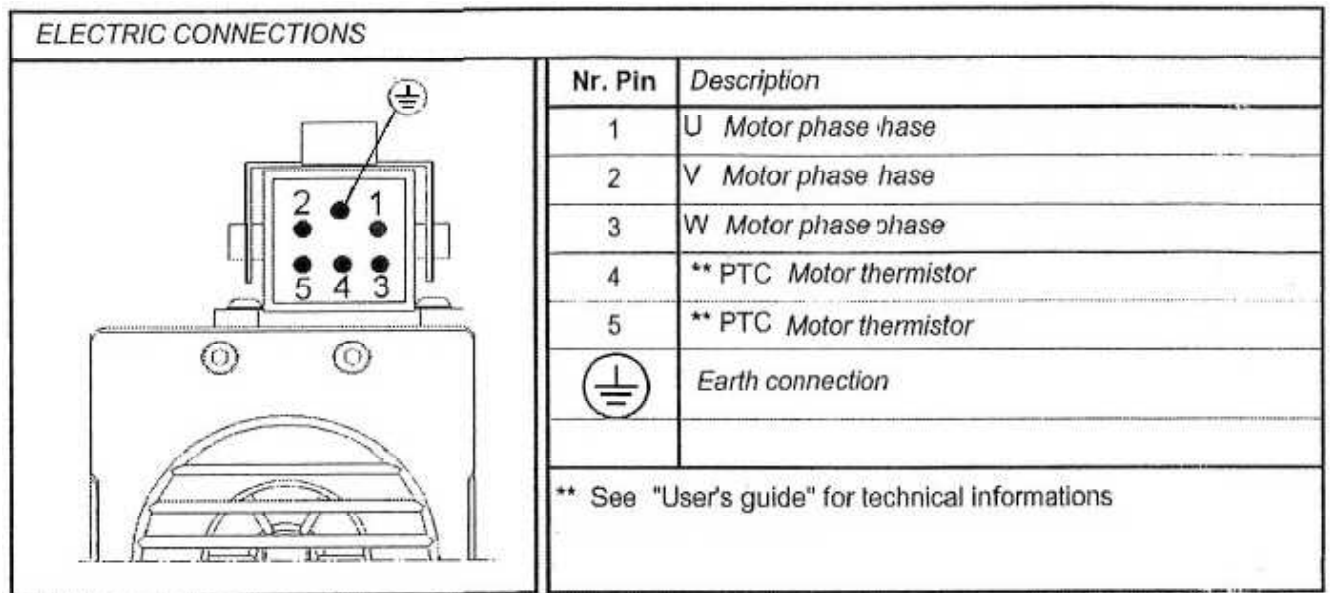
(1) Fix the spindle on mountain plate in correct position. For vertical installation, please let the dusts prove cover directed to ground; for horizontal installation, please don't let the holes of dusts prove cover directed to cooling liquid.

(2) Our electro spindles are fan cooling (or liquid cooling). For fan cooling spindles, please be sure there aren't any eye winkers on fan area to damage cooling fan and cause spindle go overheat. The in/out of cooling liquid (for liquid cooling spindles) shall be connected to inlet/outlet of spindles. Hose of $\text{Ø}8 \times \text{Ø}6$ (hose diameter: $\text{Ø}6$), cooling liquid pressure shall be in the range of $0.5\text{Kg}/\text{cm}^2$ to $1\text{ Kg}/\text{cm}^2$.

(3) Our electro spindles are equipped with 2 pair of grease lubricate bearings.

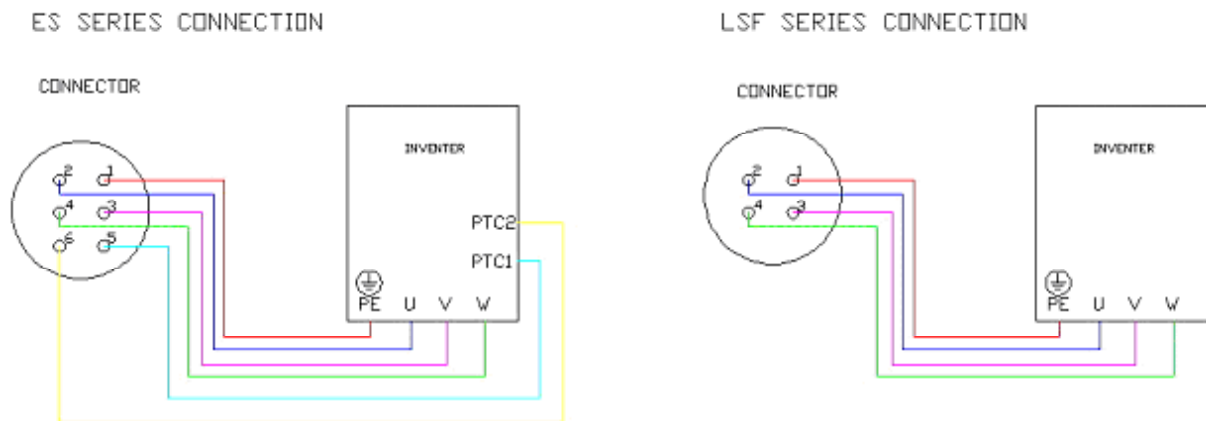
(4) Each of our electro spindles are with electrical connectors for power supply. End users shall prepare suitable power cord according to spindle's power range.

Connection for Harting-Connector:



Connection for Round-Connector:

Pin 1 shall be connected to PE (Ground) of inverter. See below figure:



(5) Before spindle be powered, please check all connection and wiring are correct. Run the spindle with low speed, view from end of shaft, the direction of shaft rotation shall be **CCW**, and then run the spindle normally after everything is OK.

(6) Our electro spindles are precise products, please don't knock and/or strike it.

(7) Maintenance: Please keep taper con clean as possible, to avoid dust and eye winkers inside cause tool running accuracy problem during operation, and break the tool. After 2000hrs operation of spindles, the bearings shall be taken out for cleaning, and inject

new appointed brand/type grease inside. Spindles with sealed bearings are not required for bearing maintenance. (The maintenance job shall be carried out by our company or experienced guys according to our instruction, to keep the balance level of spindle)

Danger!!: Maintenance must be done when spindle were completely un-powered and stationary. Other wise it may cause damage to persons and/or machines.

3. Others

- (1) The inventor (drive the spindle) shall be correctly chosen according to spindle v/f parameters on label. **Incorrect parameter setup may damage spindles.**
- (2) Don't let the spindles rotate in CW direction as possible.
- (3) Disassembly and maintenance of bearing must be supported by a certain situation, otherwise please contact us for support.
- (4) Any questions and/or abnormal status of our spindle found during operation, please contact us immediately.