

LNC | Spindle Motor

■ Leading Numerical Controller in the world

Vertical Type



Horizontal Type

Features of Variable Frequency LNC-Spindle Motor

Whole new cast iron body design offers durable usage, long life performance, and is good for anti-electromagnetic radiation interference. Multi-lateral chassis design let the heat dissipation increase 25% than traditional one. Spindle motor can have long-term life since the temperature rises slower. Wide-range operation rotation speed is suitable for applications on variable loading, multiple speed operating conditions. Motor and parts are 100% made in TW with great materials and excellent quality.



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LNC-Spindle Motor Features

1. When being above of base frequency, high speed rotation can maintain constant power output and can have wide-range fixed power output characteristics.
2. When being under of base frequency, low speed rotation can offer fairly steady linear magnetic field to maintain the fixed torque output.
3. Special winding design and insulation levels:Motors will not undermine coil insulation when drives do carrier servo control.
4. Special circuit design and magnetic field analysis:Motor will not have magnetic saturation situation within the using range. This function can help to improve greatly motor's servo characteristics and to reduce damage on drives and motors because of inrush current.
5. Excellent rotating inertia design:Let the motor can have high-speed response when doing rigid tapping.
6. A special rotator and stator pocket design:When positioning control, motors can have smooth and quick performance, will not have jump situation because of magnetic surge.

3.7KW SPINDLE MOTOR(Horizontal Installation)



Rated KW	3.7KW (5HP)
Polars	4 P
Chassis No.	112M
Rated Voltage	3Ø230V, 3Ø380V, 50/60Hz
Max. Speed	6000 r.p.m
Rotator Balance	R rated (ISO2373)
Mounted Method	Foot mounted Horizontal Installation
Control Method	V/F, V/F+PG control, PG or non-PG vector control
Feedback	Encoder or Resolver
Cooling Method	IC416 independent fan forced cooling (IP55)
Protecting	IP54

3.7KW SPINDLE MOTOR(Vertical Installation)



Rated KW	3.7KW (5HP)
Polars	4 P
Chassis No.	112M
Rated Voltage	3Ø230V, 3Ø380V, 50/60Hz
Max. Speed	8000 r.p.m
Rotator Balance	R rated (ISO2373)
Mounted Method	Bracket Installation
Control Method	V/F, V/F+PG control, PG or non-PG vector control
Feedback	Encoder or Resolver
Cooling Method	IC416 independent fan forced cooling (IP55)
Protecting	IP54

2.2KW SPINDLE MOTOR(Horizontal Installation)



Rated KW	2.2KW (3HP)
Polars	4 P
Chassis No.	100L
Rated Voltage	3Ø230V, 3Ø380V, 50/60Hz
Max. Speed	6000 r.p.m
Rotator Balance	R rated (ISO2373)
Mounted Method	Foot mounted Horizontal Installation
Control Method	V/F, V/F+PG control, PG or non-PG vector control
Feedback	Encoder or Resolver
Cooling Method	IC416 independent fan forced cooling (IP55)
Protecting	IP54

100% Complete Product Testing List Before Shipping

- A: Total function test: T-N, efficiency, electricity curve and so on.
- B: Shock torque when in acceleration: show speed, torque vibration rate.
- C: Torque and speed spectrum analysis: show motor noise problem.
- D: Friction torque: show friction from carbon brush, bearing, and other objects.
- E: Dynamic torque analysis: show motor and gear noise.
- F: Cogging Torque test: at very low speed the machine torque's angle test.
- G: EMF-show brushless motor EMF at deceleration
- H: Rotor electrical symmetry properties: show if the motor rotator has broken rotor shafts or defect slope.

