

NTN Bearings for SIEMENS Motors

- Motor Model 1PH7/1PA6

NTN has maintained a long-standing relationship with SIEMENS, which has allowed us to claim a major share of the bearings business that goes into their electric motors. Many of the parts that NTN supplies to SIEMENS include special, non-standard features specifically designed for SIEMENS motor model 1PH7/1PA6.

1PH7 servo motors*

These compact asynchronous motors supplement the synchronous servo motors for applications in the upper power range up to 630 kW (845 HP). The AC motors in the 1PH7 series are compact, forced ventilated asynchronous motors with a squirrel cage rotor with IP55 degree of protection. A built-on external ventilation unit is the standard means of ventilation for these motors.



Special NTN Features

- Tighter envelope and radial runout tolerances than the ABEC 1 used as the standard in US electric motors
- Radial internal clearance is a tighter range of C4
- ODE bearings are TS2 heat stabilized
- Non-contact LB seal design
 - » High temperature polyacrylic material
- Nylon cage (PA66 + GF25%) to maximize grease life
- Special color seal (green and brown) to orient open side of cage toward inside of motor
- Special electric motor grease
 - » Synthetic - high temperature grease
 - ◇ High quality ester oil, polyurea thickener and special additives
 - » Smooth running, low noise
 - » Long bearing life due to excellent water resistance
 - » Optimized grease fill (25 -32.5 %)



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* Information from SIEMENS Catalog DA 65.3 - 2004

Interchange

OEM Part Number	Motor Model	NTN Part Number
251071000	1PH7/1PA6	6308T2X2LLBACS40#02
251132000	1PH7/1PA6	6310LBA-GLBACS46#01
251160000	1PH7/1PA6	6312LBA-GLBACS56#04
251101000	1PH7/1PA6	TS2-6208LBA-GLBA#05
251133000	1PH7/1PA6	TS2-6210LBA-GLBA#03
251087000	1PH7/1PA6	TS2-6212ALBA-GLB#06

Motor model 1PH7/1PA6 applications*

For use in dry, indoor installations (not in corrosive atmospheres)

Hoisting equipment:

- Hoisting and grab-closing gear for cranes
- Hoisting and traveling gear for rack feeders

Printing industry:

- Single and main drives for printing machines

Manufacture of rubber, plastics, wire, and glass:

- Drives for extruders, calanders, rubber-injection plants, plastic film machines, and tile-making plants
- Wire-drawing machines, wire-stranding machines, etc. General applications such as coiler and winder drives.

Beyond Bearings

Training. Installation Support. Trouble-shooting. And more.

When you choose NTN, your team is equipped with all the necessary tools and resources to get the job done right. From installation to problem-solving, we'll be there with the hands-on support you need to take on your toughest challenges. This includes extra services such as:



Technical Training Unit

On-site, mobile training unit offering specialized, hands-on instruction from NTN engineers



Product Training School

Three days of in-depth instruction from NTN engineers at headquarters
www.go.ntnamericas.com/trainingschool



eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature
www.ntnamericas.com/eknowledge



NTN Bearing Finder

Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings
www.bearingfinder.ntnamericas.com

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