NUM Group
A Trusted Partner for Brand Label & OEM Motors
Servomotor Highlights
Wide Standard Range in Different Series
Customized and Customer Specific Motors

Architecture
- Permanent magnet three-phase synchronous motor
- Neodymium-iron-boron (NdFeB) magnets

Strength
- Torque range from 0.5 up to 160 Nm (S1 continuous torque)
  - Speed range from 1,500 to 6,000 rpm
- High degree of protection: up to IP67 as option
- Low cogging and ripple torque
- High overload capability
- H Class Insulation (180 °C) / F Class rated (155 °C)
- Temperature sensor KTY84-130
- Connectors rotatable for a full 270°
  - (Right-angled M23 connector).

Customizing
- Modifications of winding, flange, mechanics, etc.
- Customized and custom specific motors

Options
- Various range of encoder systems: High and medium resolution as single- and multi-turn encoders, resolvers, single cable solution
- Holding brake, permanent magnet brake
- Protection class up to IP 67
- Different inertia for optimal machine kinematics
- Shaft with and without key

Approbation
- CE, UL and cUL recognised

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Single cable motor technology
- Same motor range as BHX / BPX
- Encoder wiring becomes very easy
- Encoder cable completely eliminated
- Power cable simply has 2 extra shielded wires, connected using screw terminals on the drive
- Multiple savings include smaller cable chain dimensions, lower moving masses, reduced component costs and wiring, better reliability and improved EM immunity, ...
Motor development and manufacturing is a core competency of the company NUM. Development and production at one site. Very fast engineering capability on customer request. Minor customization of existing designs within 2 weeks. Major customization of existing designs within 12 to 14 weeks. Modification of mechanics, connection technology, winding. Modifications already for small and medium volume 100% OEM Development. The portfolio of customized motors includes servo and spindle motors, torque motors, design-in servo motors, high-speed motors (up to 25,000 rpm).
Innovative engineering is key to the production of quality motors at NUM Group

- Long track record in servo and spindle motors
- Production and engineering know-how on mechanics as well as winding/magnet design
- Strong and wide standard product range, with thousands of specifications on hand
- Innovative motor design: conventional and concentrated winding technology
- State-of-the-art development tools for Finite Element Analysis and 3D mechanical design
- Specific know-how for high speed flux-weakened synchronous motors (for example: 250 Nm rated torque and max speed 10,000 rpm)

Motor Production Facility
Over 30 Years of Motor Engineering and Manufacturing Experience

- Over 30 years of manufacturing experience
- Manufacturing site for all motors and drives for NUM Group, as well as for renowned OEM and private label customers
- XX.000 motor and drive axes produced per year
- More than 5000 different servo motor variants
- More than 2000 different spindle motor variants
- Custom made built-in synchronous and asynchronous spindles
- World-class service and on-time delivery
- Outstanding Quality record and full traceability of all products & parts
- Standard repair time of 2 working days (ex. works)
- Detailed report with each repair

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