Synchronous motor with IE5+ energy efficiency
Efficient and compact
NORD DRIVESYSTEMS

Synchronous motor with IE5+ energy efficiency

The new IE5+ motor generation is designed for minimizing variants and reducing operating costs

- Highest operational efficiency with IE5+ technology
- Reduced TCO and fast ROI
- Variant reduction through constant torque over a wide speed range
- Non-ventilated variant (N-Design) for hygienic wash-down areas such as food & beverage applications and other harsh environments
- Ventilated variant (F-Design*) with a high overload capacity for logistics, packaging, post & parcel, manufacturing, and more
- Fully matched NORD modular system solution with gear unit, motor and variable frequency drive

Features

- Latest generation permanent magnet synchronous motor (PMSM)
- Power range from 0.5 – 5.5 HP in two frame sizes
- Available with direct mounting to NORD gear units, NEMA C-Face, IEC B14, and IEC B5 flange mounting
- Continuous torque of 14.16 – 161.1 lb-in in two frame sizes
- Speed range from 0 – 2100 rpm
- Optional nsd tupH™ Sealed Surface Conversion System
- Optional IP69K protection class when sold as a complete gearmotor
- Optional integrated encoder
- Optional integrated mechanical brake

NORD geared motors with nsd tupH are the optimal choice for use in challenging environmental conditions.

- Easy to clean surfaces
- Resistant to acids and alkalis (wide pH range)
- No spreading of corrosion, even if damaged
- No flaking
- Corrosion-resistant – no contact corrosion
- Conforms to FDA Title 21 CFR 175.300
- Free from chromates

Sealed Surface Conversion System

SK 93072.1 bevel gear unit
NORD IE5+ synchronous motor
NORDAC ON variable frequency drive*

The complete solution for extreme conditions

- Surface-treated housing components
- DIN and standard components made from stainless steel
- Wash-down housing (gear unit and motor)
- Stainless steel shafts
- Special radial shaft seals
- Food-compatible oil

*US availability Q1 2022
By reducing the number of variants, it is possible to minimize administrative expenses and set up leaner manufacturing, logistics, storage, and service processes. The new generation of IE5 motors combines the benefits of NORD’s modular system with the possibility of reducing system variants. This solution is tailored to each customer and features the following advantages:

- Motor can be operated worldwide
- High system overload capacity
- Large speed range
- Explicitly tailored to the individual load range
- Minimal space requirements paired with high power density

**Variant reduction**

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**US availability Q4 2021**
INNOVATIVE, EFFICIENT SOLUTIONS FOR ALL-AROUND COMPATIBILITY.

Innovative, compatible, future-ready: DuoDrive*, IE5+, and NORDAC ON**.

*US availability Q4 2021
**US availability Q1 2022