

More Than Just a Motor Company

WASHGUARD WASHDOWN DUTY PT PRODUCTS

ELECTRIC MOTORS, GEAR REDUCERS, AC & DC DRIVES

Bulletin 1500

WASHGUARD WHITE EPOXY







- Our original moisture-shedding "Duck" motor
- Durable RUST-OLEUM® white epoxy coating
- · Stainless steel shaft, conduit box cover, nameplate, fan guard
- Special gaskets, slingers and seals
- · Four endshield drains
- Moisture-resistant interior components
- Inverter rated IRISTM insulation system
- Single-phase, three-phase and DC SCR models
- NEMA and IEC metric frames in stock

WASHGUARD ALL-STAINLESS

Maximum Service in Critically Clean or Corrosive Environments





- All exterior components of 300 series stainless steel, including motor frame, endshield and conduit box castings
- Endshields o-ring sealed to frame
- · IEEE 841 severe-duty features standard
- Meets demanding pharmaceutical requirements; also excellent for chemical-processing applications involving nitric acid and caustic lye
- Incorporates all WASHGUARD mechanical and electrical features, plus IRIS[™] insulation system
- BISSC certified
- Viton seals, gaskets, and o-rings
- Hydrophobic breathers







WASHGUARD SST ALL-STAINLESS

Stainless Steel Tough for Demanding Washdown Applications



- All exterior components of 300 series stainless steel, including motor frame, endshield and conduit box castings
- Moisture resistant sealant between frame and endbells
- Full-fact nameplate is laseretched on the motor frame
- Built to withstand the demanding washdown environments found in the food processing, chemical processing and beverage industries
- No paint or coatings of any type are used on the exterior of the motor
- · Four locations for T-drains provided on each endshield
- IRIS[™] insulation system

WASHGUARD II PAINT-FREE

Superior, Extended Life in Severe Environments





- Paint-free exterior 300 series stainless frame, base, conduit box lid and fasteners
- Specially processed endshields and conduit box housing, qualified to withstand more than 2,500 hours of salt spray on external surfaces
- · Etched stainless steel nameplate
- Proven WASHGUARD mechanical and electrical features
- IRIS[™] insulation system
- BISSC certified for baking industry



WASHGUARD & WASHGUARD ALL-STAINLESS GEAR REDUCER

LEESON

Designed and Built to Withstand the Rigors of High-Pressure Washdowns

LEESON Washdown Duty gear reducers are designed and built to withstand the rigors of high-pressure washdowns in many applications, including: food service, chemical, poultry processing, car washes and more. Built on the foundation of LEESON's industrialduty Ironman[™] by Ohio Gear line, these reducers add exclusive WASHGUARD or WASHGUARD All-Stainless features to ensure trouble-free operation.

Combine the gear reducer with a LEESON WASHGUARD or WASHGUARD All-Stainless motor for a gearmotor that boasts an unmatched ability to thrive under conditions that would quickly destroy most other motors and gear reducers.

Features

- WASHGUARD Reducers food-grade white epoxy paint provides superior durability in wet and caustic environments.
- WASHGUARD All-Stainless Reducers 316 grade cast stainless steel housing and covers withstand severe duty environments.
- Viton[®] double-lip seals are up to five times more durable than nitrile seals and provide added resistance to chemicals common in washdown applications.
- Patented Forsheda V-ring on output shaft provides extra protection from high pressure water spray and other contaminants.
- O-ring on "flat-faced" input flange provides a positive seal against moisture intrusion.
- Stainless steel output shaft is corrosion resistant for long life.
- O-rings on input and output covers eliminate gaskets, sealants and leaks.
- Food-Grade Synthetic Lubricant, Mobil SHC634, meets USDA Class H2 standards.
- Enviroseal feature provides a vent-free and "sealed for life" design.
- **BISSC Certified** Bakery Industry Sanitation Standards Committee

MICRO SERIES WASHGUARD INVERTERS

Delivering "Big Drive" Features



Combine LEESON's NEMA 4/12 or 4X SPEEDMASTER® Micro Series inverters with food-safe white epoxy-coated



Combine LEESON's NEMA 4/12 or 4X SPEEDMASTER® Micro Series inverters with food-safe all-stainless WASHGUARD® motors.

1/2 through 60 HP features:

- · Food-safe epoxy finish or stainless steel enclosure
- Rugged heavy-gauge NEMA 12, 4/12 or 4X (stainless) IP65 dust-tight, water-tight steel enclosure with barriertype terminal strips
- Plain-English readout for ease of programming and operation
- Intelligent Power Module, advanced IGBT electronics
- Selectable carrier frequencies for optimized motor performance and quiet operation
- · Single and three phase input models available
- 115/230, 200-240, 400-480 and 480-590 VAC versions – for 50Hz or 60Hz applications

SPEEDMASTER® DC SCR CONTROLS

Straightforward, Economical Speed Control



Combine LEESON's NEMA 4/12 or 4X SPEEDMASTER[®] Micro Series inverters with food-safe Gear+Motors™.

Fractional through 3 HP features:

- Non-metallic NEMA 4X enclosures
- Precise 1% speed regulation
- · Reversing and non-reversing versions available



PACKAGED SOLUTIONS – A LEESON SPECIALTY

Specially Engineered Products

Specially engineered washdown-duty motors and gearmotors are available from LEESON to meet specific application needs and wants. At our Design Center in Grafton, Wisconsin, collaborative engineering efforts come together to develop fast-track prototypes for customer evaluation. Then, flexible manufacturing processes allow production lots matched to OEM build schedules. Pictured are just a few of the many special WASHGUARD motors, gear reducers and gearmotors we have developed to meet customer application requirements.



LEESON's flexible epoxy coating systems allow custom runs of WASHGUARD and other severe-environment motors.



Parallel-shaft DC SCR adjustable speed drive gearmotor for food packaging machine.



Metric flanged (B14) motor for closecoupling of European gear reducer.



All-Stainless gear+motor packages for nearly any severe duty environment.



Stainless hollow output shaft WASHGUARD reducers for harsh duty applications.



NEMA C face, custom shaft motor for pump coupling.



Electrically special stainless steel motor for seafood processing equipment.



Mechanically special WASHGUARD motor for the poultry processing industry.



WASHDOWN DUTY PRODUCTS

LEESON Electric offers a variety of Inverter Rated Motors and Gear+Motor packages to compliment our family of SPEEDMASTER® AC Adjustable Speed Drive products.











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