

FEATURES/BENEFITS



TIGEAR-2 GEARMOTORS

TIGEAR-2 C-face gearmotors are now available at our Crossville, TN Distribution Center. TIGEAR-2 gearmotors are only available with quill C-face input and with single solid or hollow output shafts. TIGEAR-2 gearmotors are available with either standard efficient (SABRE) or premium efficient (XE) Reliance Electric motors.

TIGEAR-2 Reducer Features:

- Compact Drive Package
 - 8 Case Sizes 1.33" to 3.50" Center Distance
 - Up to 60:1 Ratio in Single Reduction Reducer
 - Quill Input with Single Solid or Hollow Output
- Virtually Maintenance-Free
 - Totally Enclosed Ventless Construction
 - Factory Filled with Premium Synthetic Lubricant - No Routine Oil Changes Required
 - Advanced Sealing Technology for Long Leak-Free Performance
- Advanced Gear Design
 - More Torque Capacity
 - Higher Efficiency
 - Less Wear



Reliance Electric Standard Efficient Motor - SABRE

- 1750 rpm
- 60 Hz, 208-230/460v
- TEFC – IP44
- Rolled Steel Construction that Meet or Exceed EPCo Efficiency Levels
- Designed for all Standard Industrial Applications in a Dusty, Dirty and / or Humid environment
- Inverter Capable – Insulation Meets NEMA MG1 Part 31.40.4.2

Reliance Electric Premium Efficient Motor - XE

- 1750 rpm
- 60 Hz, 230/460v
- TEFC – IP 44
- Rolled Steel (56C – 140TC) and Cast Iron (180TC – 210TC) Construction that Meet or Exceed NEMA Premium Efficiency Levels
- Designed for all Standard Industrial Applications in a Dusty, Dirty and / or Humid environment
- Inverter Capable – Insulation Meets NEMA MG1 Part 31.40.4.2

TIGEAR-2 GEARMOTORS

New TIGEAR-2 Sealing System

The new totally enclosed, ventless sealing system operates effectively with no pressure vent, no compression chamber. TIGEAR-2 contains a new factory-filled synthetic lubricant that actually runs cooler, as well as eliminates the need for routine oil changes. All reducers are filled with the proper amount of lubricant for any approved mounting position. Simply install it, then forget it.

New Custom-Formulated HNBR Wave Seal

Hydrogenated Nitrile Butadiene Rubber (HNBR) material has been proven to be a better all-round choice for oil compatibility, wear, and temperature range. Overall, it provides up to 6 times greater wear resistance than industry standard nitrile seals.

Special Hydrodynamic Wave Seal Design

The special wave shape (molded into the seal lip) generates a better hydrodynamic film, which is required between the seal and the shaft for long life. This special wave design generates less drag, less heat, and virtually eliminates shaft grooving created by the single-point wear track, which is common with conventional trimmed lip seal designs. The sinusoidal lip of the wave seal effectively pushes external

contaminants away and pumps lubricant back into the oil sump.

Special Lip Construction

Optimized lip-to-shaft contact pressures ensure maximum life. In addition, special sealing elements operate under pressure without detrimental effect on service life or sealing performance.

New Factory-Filled Synthetic Lubricant

The standard synthetic lubricant used in TIGEAR-2 meets H1 food grade requirements and accommodates a wide range of operating temperatures. In extensive laboratory test, it lowered operating temperatures by 20-F over other popular synthetics. No routine scheduled oil changes are required.

New GRIP TIGHT® Tapered Adapter Bushing System Eliminates Hop and Wobble



Locking System

The TIGEAR-2 reducer's new GRIP TIGHT tapered bushing system uses concepts that have proven to be effective in the locking mechanism of the DODGE GRIP TIGHT bearing to simplify installation and removal and prevent fretting corrosion problems. There are no loose fasteners to misplace during installation, and the locking nut creates a positive means for easy removal.

Minimum Shaft Length

The system's tapered bushings allow for mounting in some of the tightest places on almost any size shaft. (Driven shafts need not protrude completely through the reducer bore.)

Bushing Options

When used in pairs, the new tapered bushings can be used without output keys. Corrosion resistant options are available for severe washdown applications.