PRODUCT NOTE

400 Hp Top Drive drilling motor
Rugged, reliable, and built to last

Baldor-Reliance® Top Drive drilling motors are durable, safe and meet the performance demands of on-shore drilling rigs. The compact, power dense design offers more power in a smaller package with certifications to ensure equipment and personnel safety.

Baldor-Reliance top drive drilling motors are designed based on over 25 years of experience building high performance AC top drive drilling motors. Our motors include the following features to provide a compact, high performance top drive drilling motor that is built to last.

- **400HP, 1150/2400 rpm, 575V rated** (random wound or form wound)
- **Available with ambient temperature ratings up to 55C**
- **CSA, ATEX, IEC-Ex, and ABS Certifications available**
- **Rugged laminated steel frame with IP44 rated DPSV enclosure**
- **Ductile iron bearing brackets with industry standard DE and ODE flanges**
- **Stainless steel air outlet covers with stainless steel mesh screens**
- **Critical fasteners secured with safety wire or cotter keys**
- **Rated for shock loads up to 6G**
- **Class II double ended shaft with industry standard tapers fitted for hydraulic removal of the coupling**
- **Cast aluminum rotor locked to the shaft to resist high shock loads**
- **DE roller bearings and ODE back to back angular contact bearings**
- **Double inboard and outboard seal system on the DE and ODE with Inpro Seal on the ODE outboard side**
- Patented Positive Lubrication System with Black Pearl grease
- Bearing RTDs available upon request
- Optimum pole winding designed for VSD operation
  - Available in random wound or form wound designs
  - Designed to meet or exceed the requirements of NEMA MG1 part 31.4.4.2
  - Industry leading corona resistant insulation system
  - Class H temperature rating
  - Sealed VPI system capable of passing IEEE-429 immersion test
  - 690V rated insulation with 575V operating voltage
  - Three thermostats as standard, RTDs available upon request
- IP54 rated ductile cast iron terminal box with bus bars and accessory terminal strips as standard
- Durable C3+ paint system
- Manufactured in Gainesville, GA – ISO 9001, US Navy, Nuclear 1E QA, and ATEX certified

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