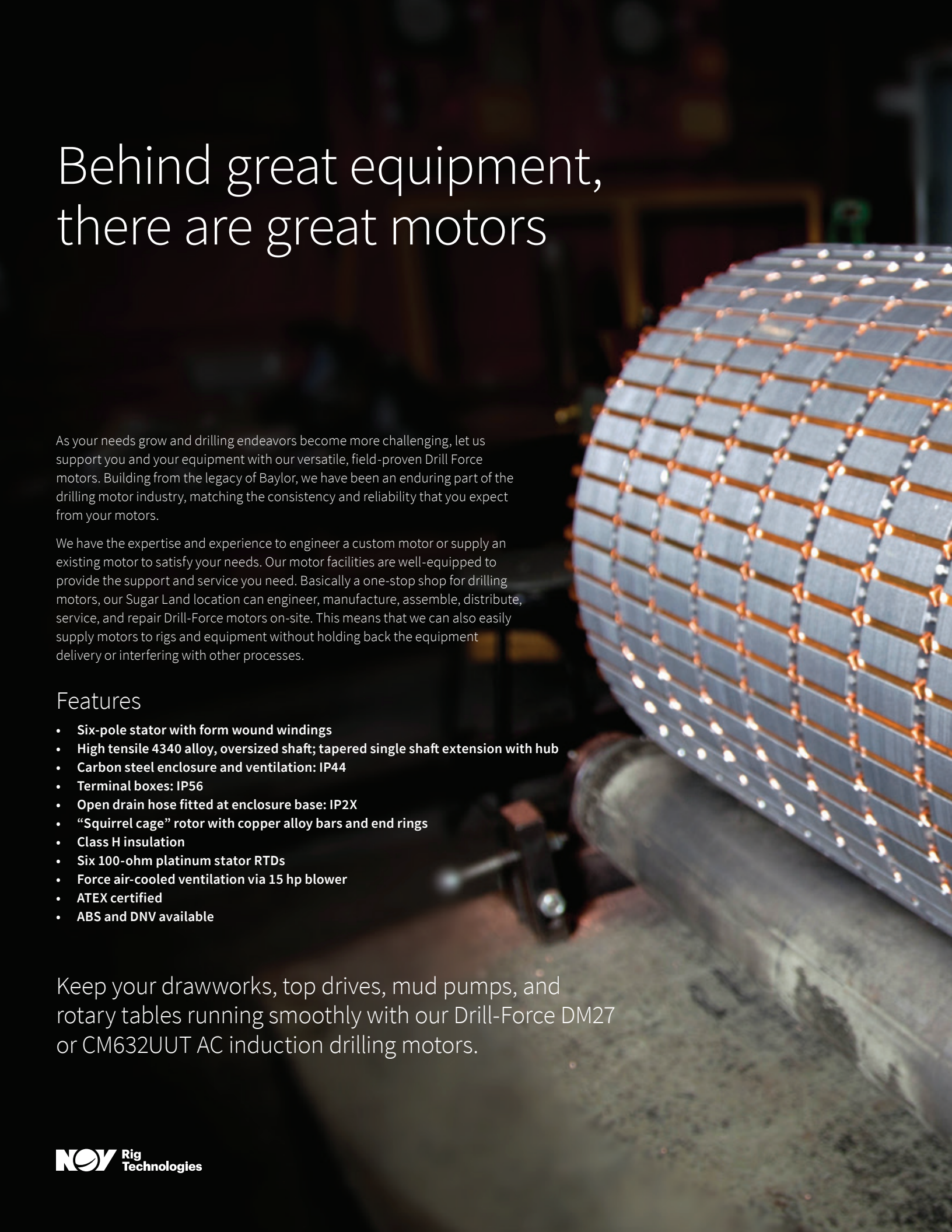
Drill-Force

AC Drilling Motors

NOV Rig Technologies

Behind great equipment, there are great motors



As your needs grow and drilling endeavors become more challenging, let us support you and your equipment with our versatile, field-proven Drill Force motors. Building from the legacy of Baylor, we have been an enduring part of the drilling motor industry, matching the consistency and reliability that you expect from your motors.

We have the expertise and experience to engineer a custom motor or supply an existing motor to satisfy your needs. Our motor facilities are well-equipped to provide the support and service you need. Basically a one-stop shop for drilling motors, our Sugar Land location can engineer, manufacture, assemble, distribute, service, and repair Drill-Force motors on-site. This means that we can also easily supply motors to rigs and equipment without holding back the equipment delivery or interfering with other processes.

Features

- **Six-pole stator with form wound windings**
- **High tensile 4340 alloy, oversized shaft; tapered single shaft extension with hub**
- **Carbon steel enclosure and ventilation: IP44**
- **Terminal boxes: IP56**
- **Open drain hose fitted at enclosure base: IP2X**
- **“Squirrel cage” rotor with copper alloy bars and end rings**
- **Class H insulation**
- **Six 100-ohm platinum stator RTDs**
- **Force air-cooled ventilation via 15 hp blower**
- **ATEX certified**
- **ABS and DNV available**

Keep your drawworks, top drives, mud pumps, and rotary tables running smoothly with our Drill-Force DM27 or CM632UUT AC induction drilling motors.

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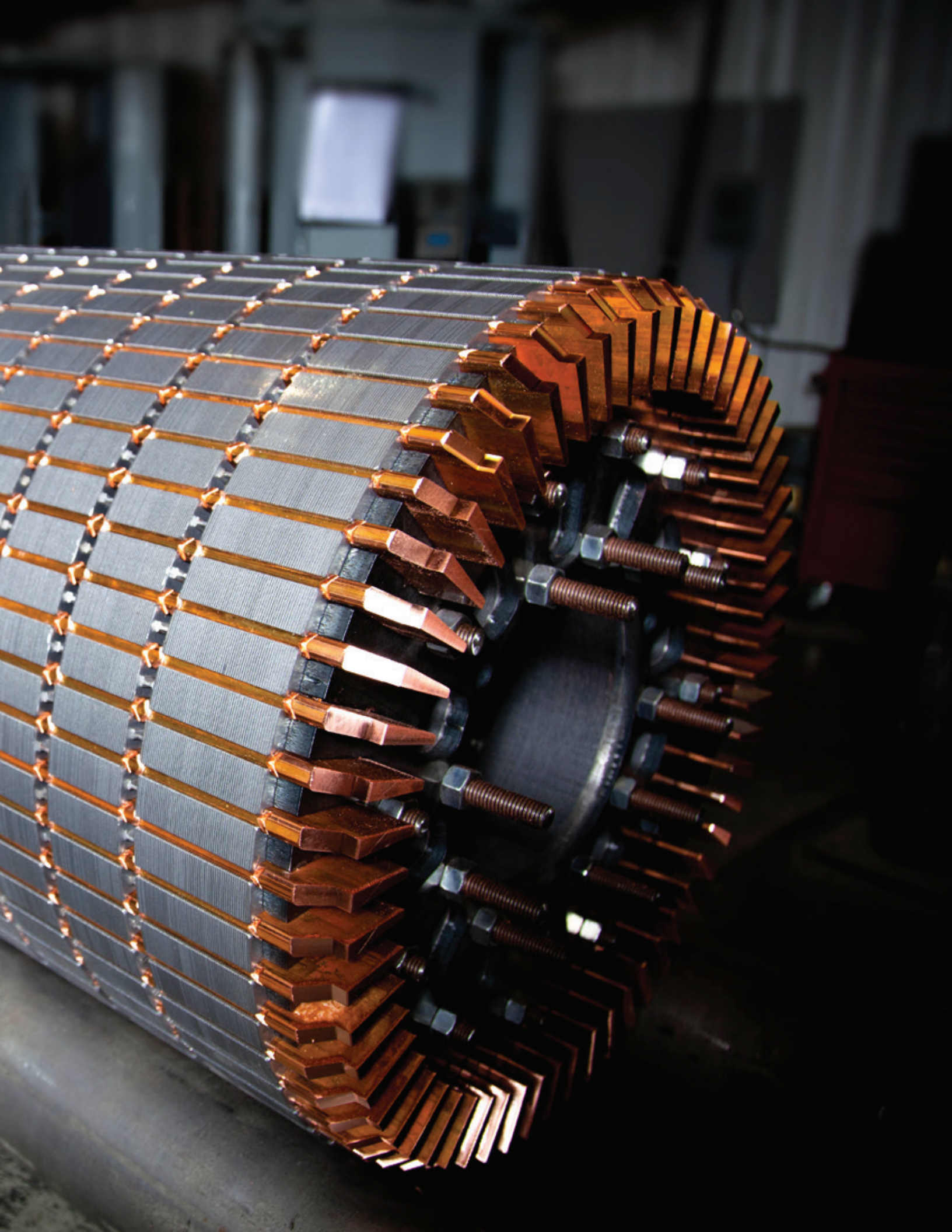
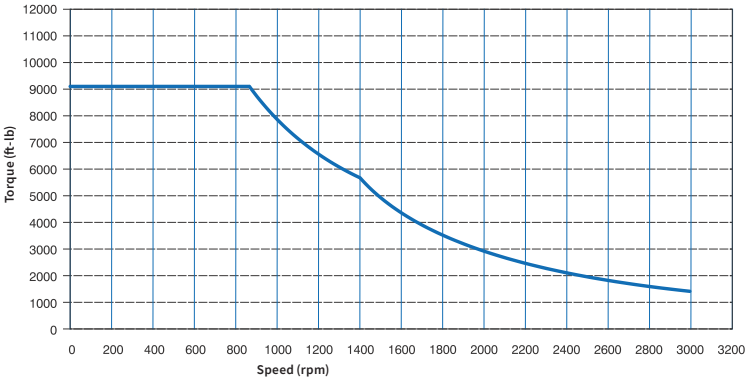


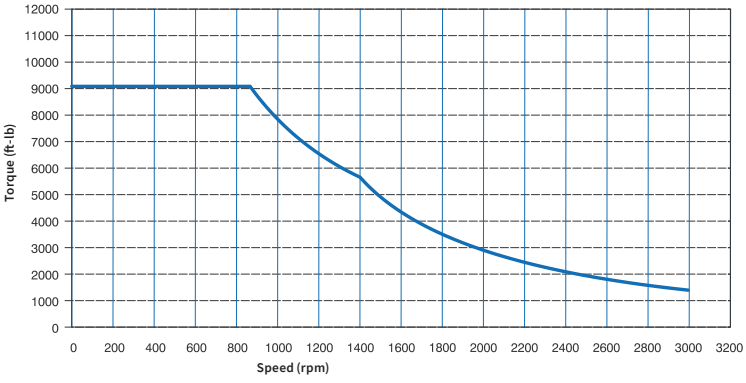
CM632UUT
AC induction drilling motor

CM632UUT 1500 and 1600 hp AC induction drilling motors

CM632UUT 1500 hp performance curves (torque vs speed)
600V operation, tested data from 0 to 2400 rpm



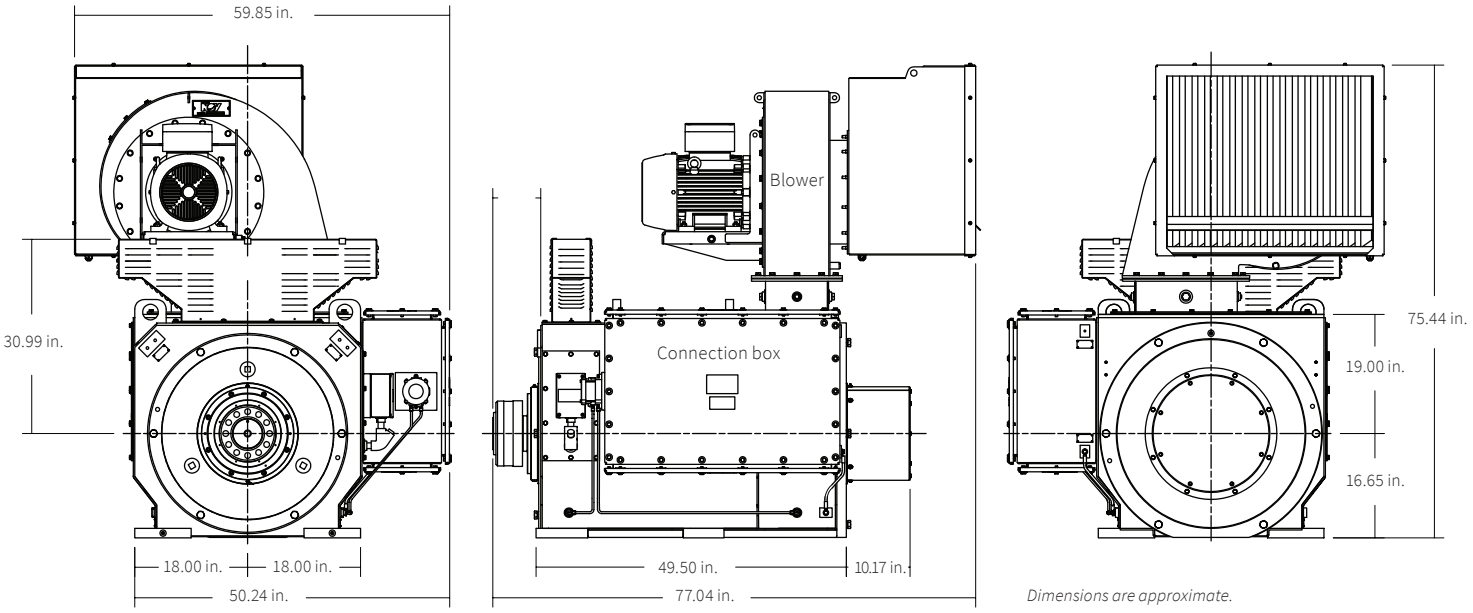
CM632UUT 1500 hp performance curves (torque vs speed)
690V operation, tested data from 0 to 2400 rpm



CM632UUT 1500 hp performance ratings The CM632UUT 1500 hp AC induction drilling motor with 3400 SCFM airflow and -40° to 55° C ambient temperature range

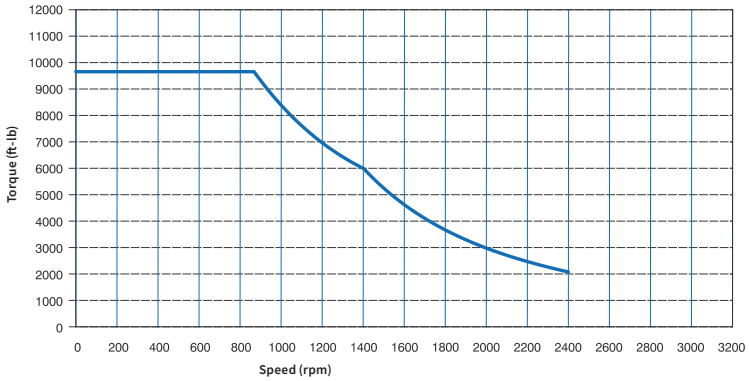
	Continuous rating	Drawworks duty cycle
Volts (AC)	600/690	600
Power output (hp)	1500	2000
Speed (rpm) @ rated power output	870 to 1400	
Torque (ft lb)	9055	12074
Speed (rpm) @ rated torque	0 to 870	
Max speed (rpm)	3000	

CM632UUT AC induction drilling motor

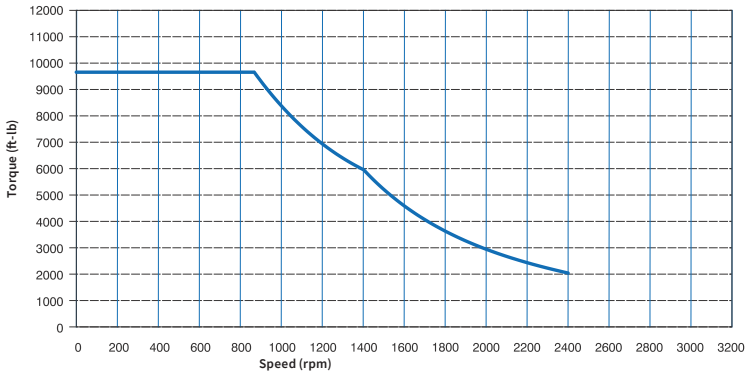


Dimensions are approximate.

CM632UUT 1600 hp performance curves (torque vs speed)
600V operation, tested data

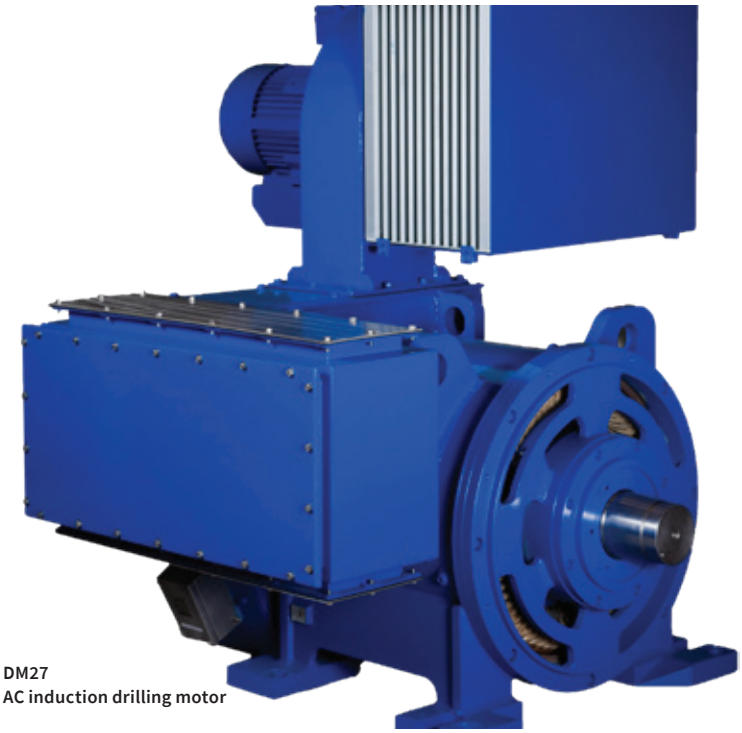


CM632UUT 1600 hp performance curves (torque vs speed)
690V operation, tested data



CM632UUT 1600 hp performance ratings The CM632UUT 1600 hp AC induction drilling motor with 3400 SCFM airflow and -40° to 55° C ambient temperature range

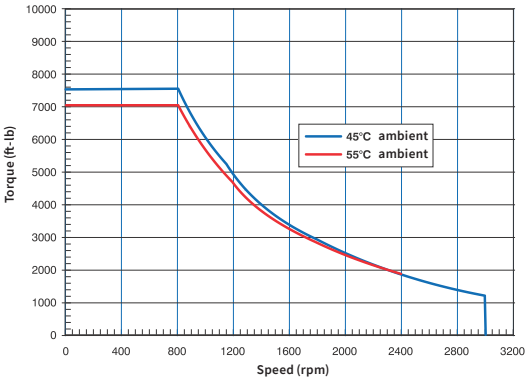
	Continuous rating	Drawworks duty cycle
Volts (AC)	600/690	600
Power output (hp)	1600	2000
Speed (rpm) @ rated power output	870 to 1400	
Torque (ft lb)	9659	12074
Speed (rpm0 @ rated torque	0 to 870	
Max speed (rpm)	2400	



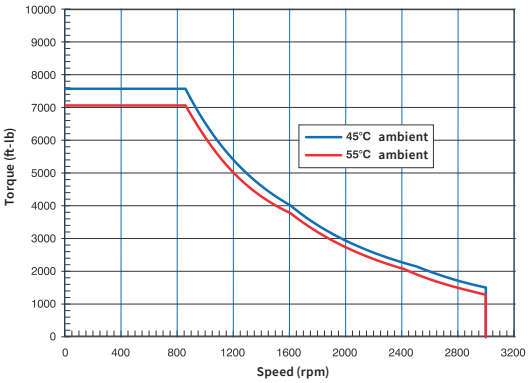
DM27
AC induction drilling motor

DM27 AC induction drilling motors

DM27 performance curves (torque vs speed)
600V operation, tested data



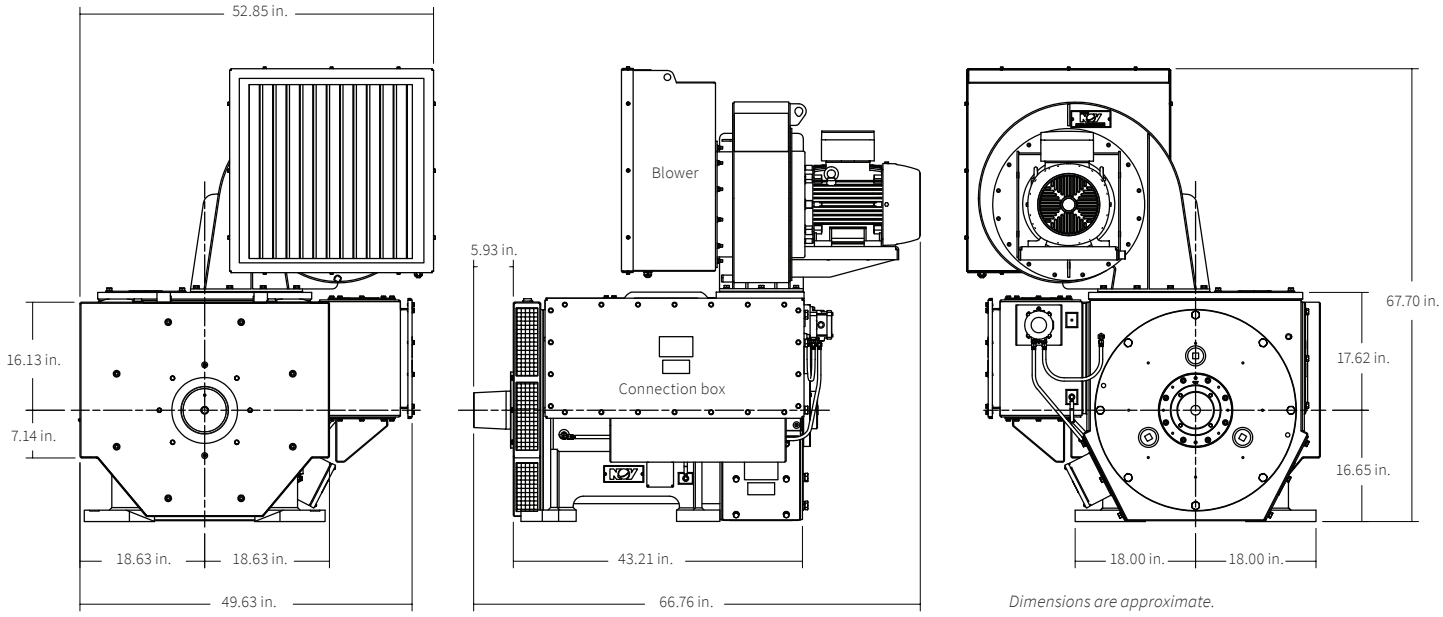
DM27 performance curves (torque vs speed)
690V operation, tested data from 0 to 2400 rpm, calculated data from 2400 to 3000 rpm



DM27 performance ratings The DM27 AC induction drilling motor with 2800 SCFM airflow and -40° to 45° C ambient temperature range

	Continuous rating	Drawworks duty cycle
Volts (AC)	600/690	600/690
Power output (hp)	1150/1229	1400/1500
Speed (rpm) @ rated power output	800 to 1150/855 to 1600	
Torque (ft lb)	7550	9200
Speed (rpm) @ rated torque	0 to 800/0 to 855	0 to 800/0 to 855
Max speed (rpm)	3000	

DM27 AC induction drilling motor



Dimensions are approximate.

Innovative technology: NOV's leadership in the development of AC technology in top drives, drawworks, rotary tables, pipe handling systems, and mud pumps has led to the development of the Drill-Force drive systems. Drill-Force motors are specifically designed to optimize the drilling performance of the machines they power.

The Drill-Force line used Six Sigma design techniques to improve the quality and efficiency of the material to yield a lighter, more durable product with lower inertia, better VFD response time, and better thermal efficiency than our competitors.

Efficiency and performance: Applying the same techniques to our manufacturing process led to quality motors with consistent performance. The Drill-Force motors, paired with our Drill-Force VFD, will drive NOV-built equipment with increased efficiency, performance, and reliability unmatched in the industry.

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