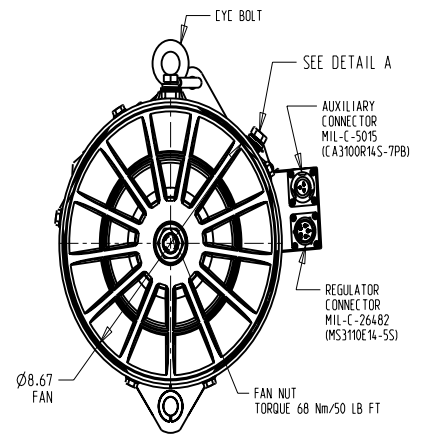
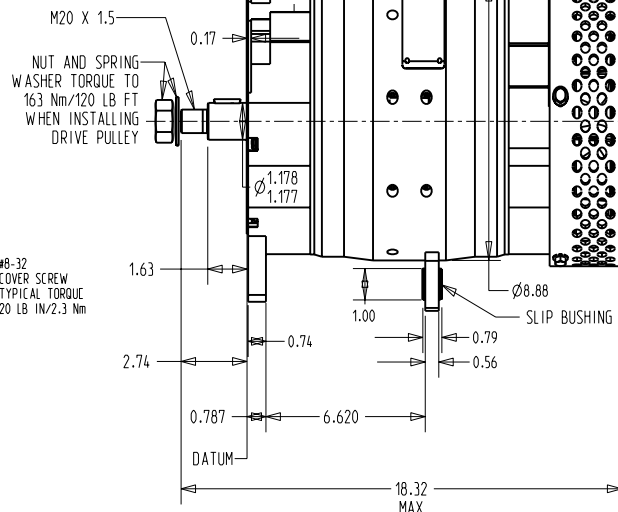
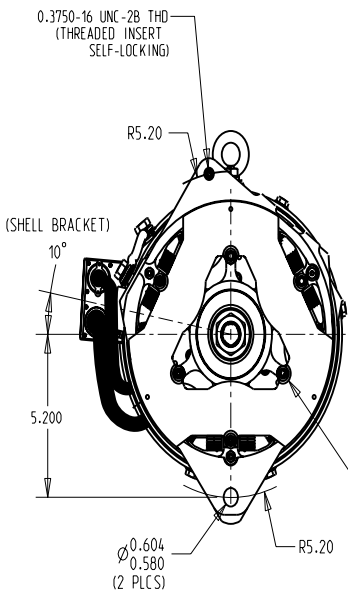
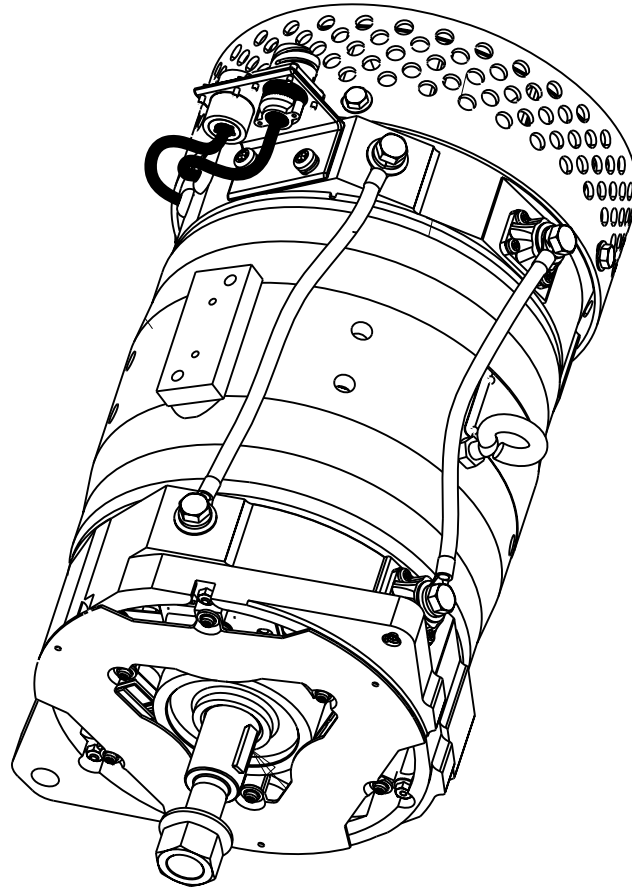




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**N1611**  
**28V 570A**

**DESIGNING FOR TOMORROW'S DEMANDS**





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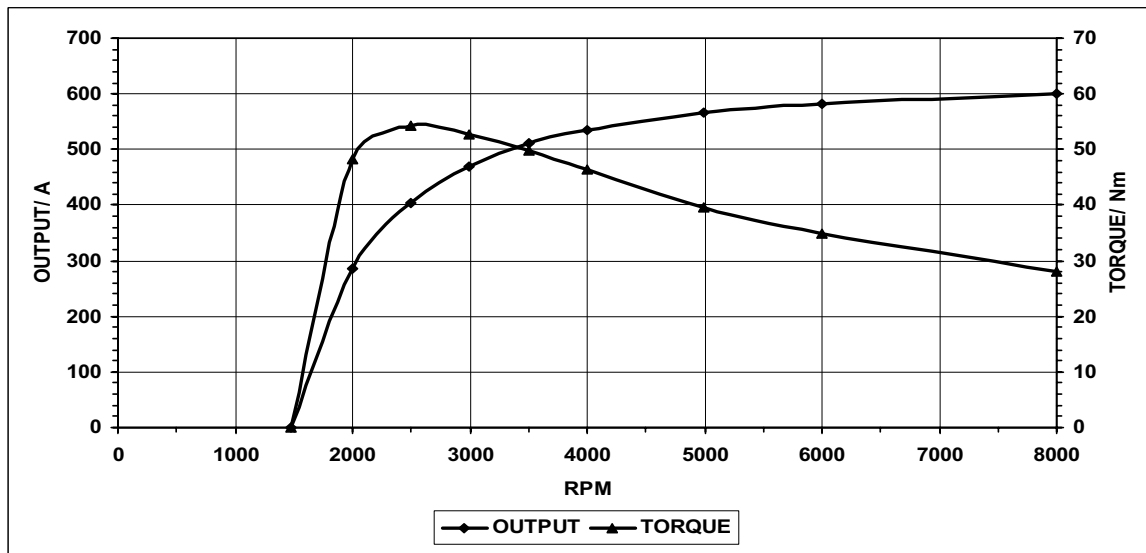
## **DESIGNING FOR TOMORROW'S DEMANDS**

**ALTERNATOR CHARACTERISTICS FOR 28 VOLTS/ 570 AMPS:**

**APPLICABLE MODELS: N1611**

**OUTPUT CURVE:** OUTPUT AMPERES VERSUS ALTERNATOR SHAFT SPEED IN RPM AT 28.0 VOLTS.

**TORQUE CURVE:** DRIVE TORQUE IN Nm VERSUS ALTERNATOR SHAFT SPEED IN RPM REQUIRED TO PRODUCE OUTPUT CURVE.



ALL MEASUREMENTS DEPICTED ON PERFORMANCE CURVES ARE TAKEN AT 22 °C/72°F AMBIENT TEMPERATURE (UNLESS OTHERWISE SPECIFIED) AND A STABILIZED MACHINE TEMPERATURE AT MAXIMUM OUTPUT WITH VOLTAGE CONSTANT AS SPECIFIED.

**ABBREVIATIONS:**

RPM            REVOLUTIONS PER MINUTE

Nm             NEWTON-METER

Conversion: 1 Nm = 8.85 Pound Inch (LBIN)



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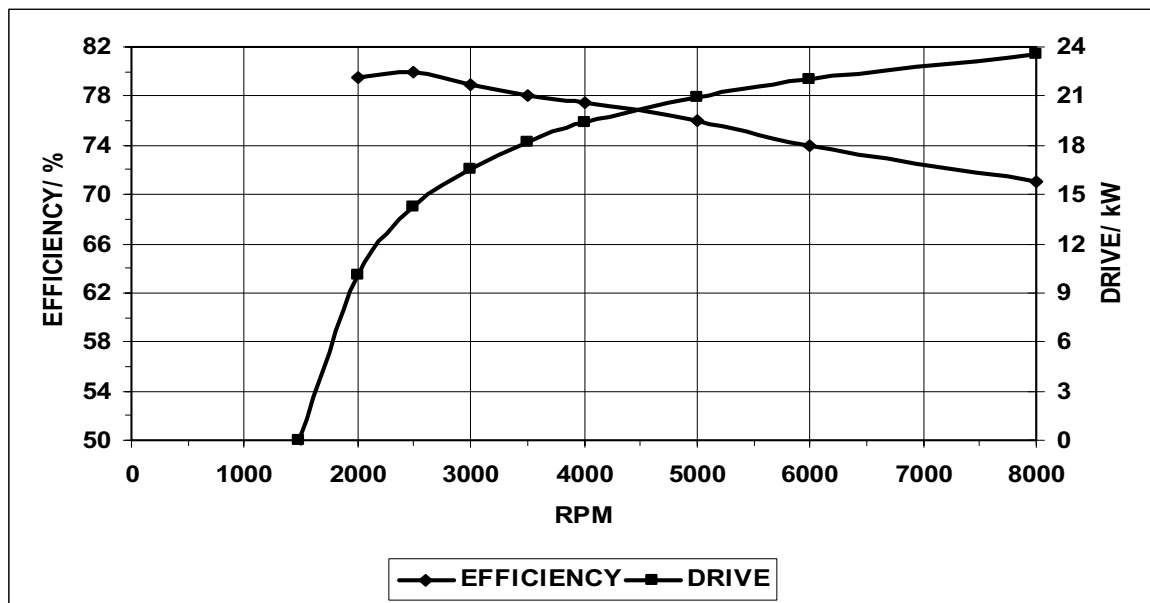
## **DESIGNING FOR TOMORROW'S DEMANDS**

**ALTERNATOR CHARACTERISTICS FOR 28 VOLTS/ 570 AMPS:**

**APPLICABLE MODELS: N1611**

**DRIVE CURVE:** DRIVE HORSEPOWER OR kW VERSUS ALTERNATOR SHAFT SPEED IN RPM REQUIRED TO PRODUCE OUTPUT CURVE.

**EFFICIENCY CURVE:** EFFICIENCY IN PERCENTAGE OF ALTERNATOR OUTPUT POWER DIVIDED BY INPUT POWER VERSUS ALTERNATOR SHAFT SPEED IN RPM REQUIRED TO PRODUCE OUTPUT CURVE



ABBREVIATIONS:

RPM REVOLUTIONS PER MINUTE

kW KILOWATTS (1000 WATTS)

Conversion: 1 kW = 1.341 horsepower (HP)



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## **DESIGNING FOR TOMORROW'S DEMANDS**

**ALTERNATOR CHARACTERISTICS FOR 28 VOLTS/ 570 AMPS:**

**APPLICABLE MODELS: N1611**

**SPECIFICATIONS:**

- 570 AMPERE 28 VOLTS NEGATIVE GROUND ALTERNATOR SYSTEM
- BRUSHLESS (6) PHASE SELF-ENERGIZING AND SELF-RECTIFYING
- USES EXTERNAL SOLID STATE VOLTAGE REGULATOR
- AMBIENT OPERATING TEMPERATURE: -54 °C/-65°F TO 93°C/200°F
- BI-DIRECTIONAL ROTATION
- SEALED BEARINGS: FRONT 306 BALL; REAR 206 BALL
- UNIT WEIGHT 51 kg/ 112 LBS
- ROTOR INERTIA WITH FAN 468 kg cm<sup>2</sup>/ 160 LB IN<sup>2</sup> (BY WEIGHT)
- MAXIMUM SPEED 8000 RPM
- PEAK TORQUE AT 22 °C/72°F MACHINE TEMPERATURE IS 60.1 Nm AT 2500 RPM AND A 453 AMPERE LOAD AT 28.0 VOLTS
- PEAK DRIVE REQUIREMENTS AT 22 °C/72°F MACHINE TEMPERATURE IS 25.4 kW AT 8000 RPM AND A 658 AMPERE LOAD AT 28.0 VOLTS

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