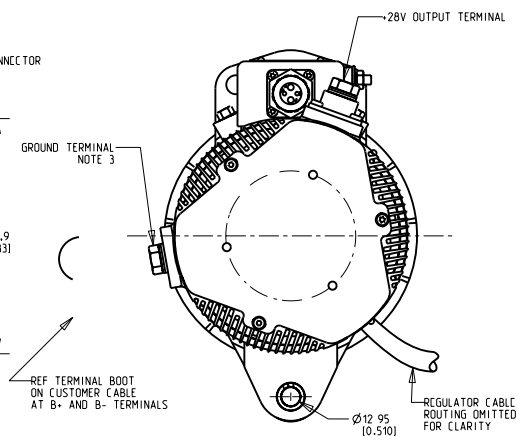
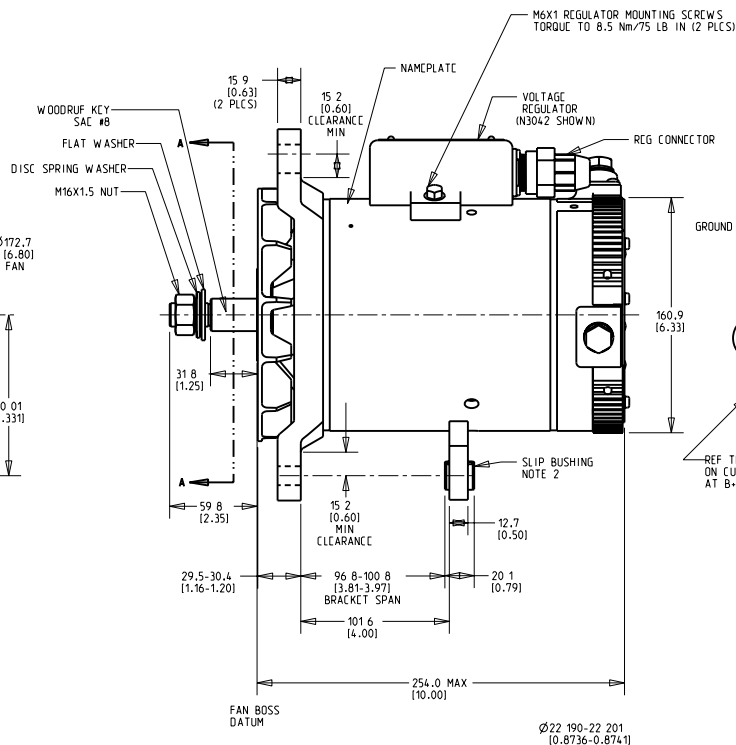
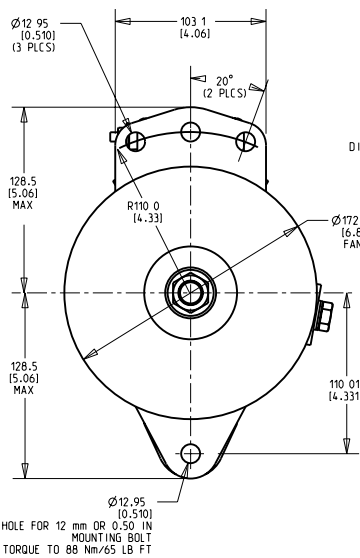
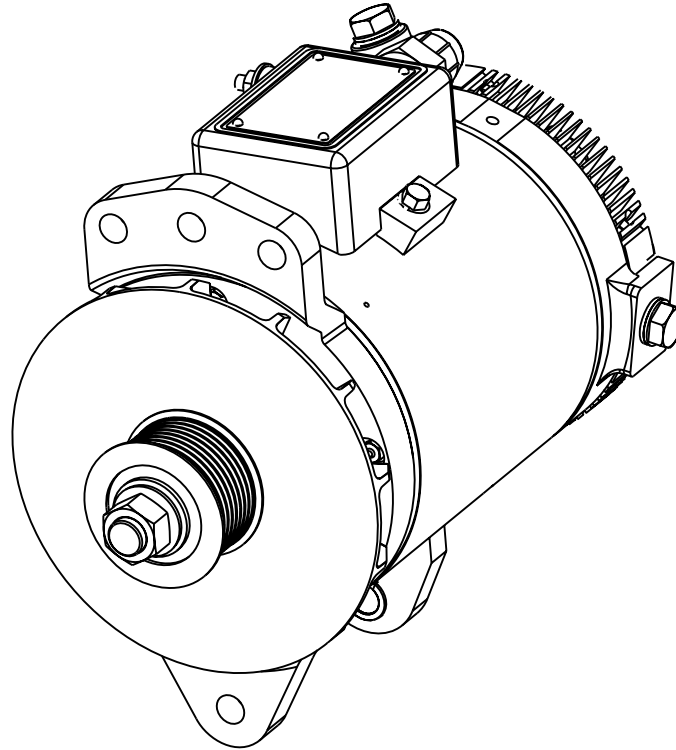




**C.E. Niehoff & Co.**  
BRUSHLESS ALTERNATORS

**N1127**  
**28V 140A**

**DESIGNING FOR TOMORROW'S DEMANDS**



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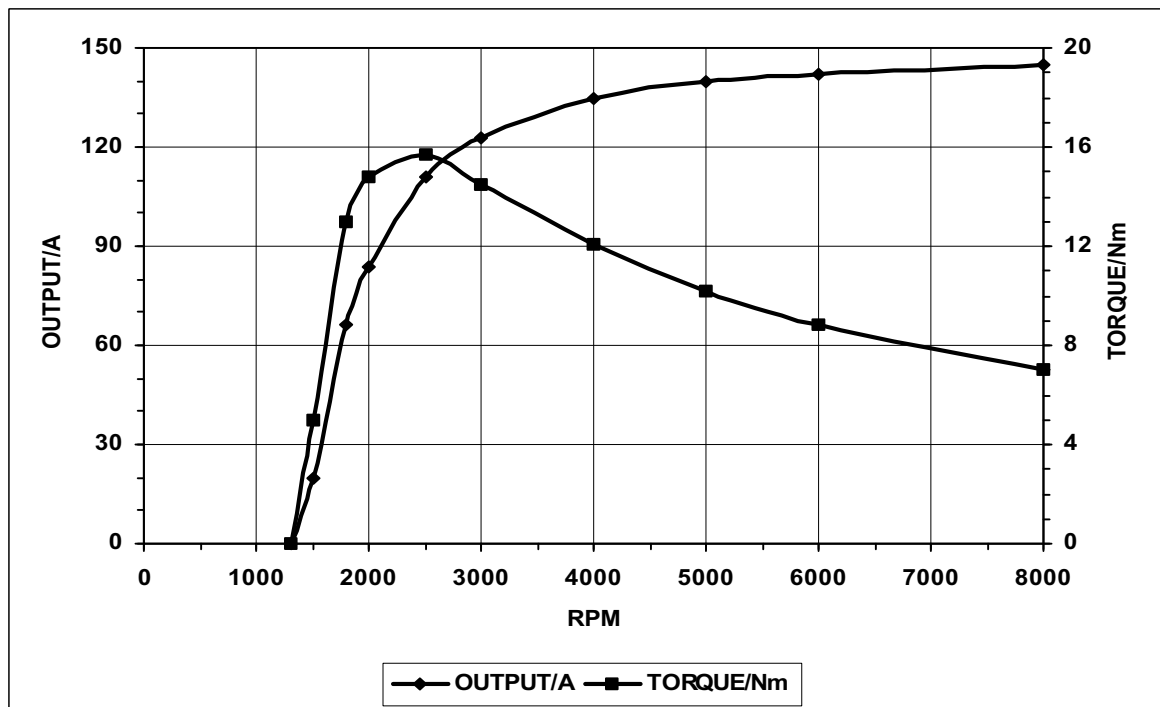
## **DESIGNING FOR TOMORROW'S DEMANDS**

**ALTERNATOR CHARACTERISTICS FOR 28 VOLTS/ 140 AMPS:**

**APPLICABLE MODELS: N1127**

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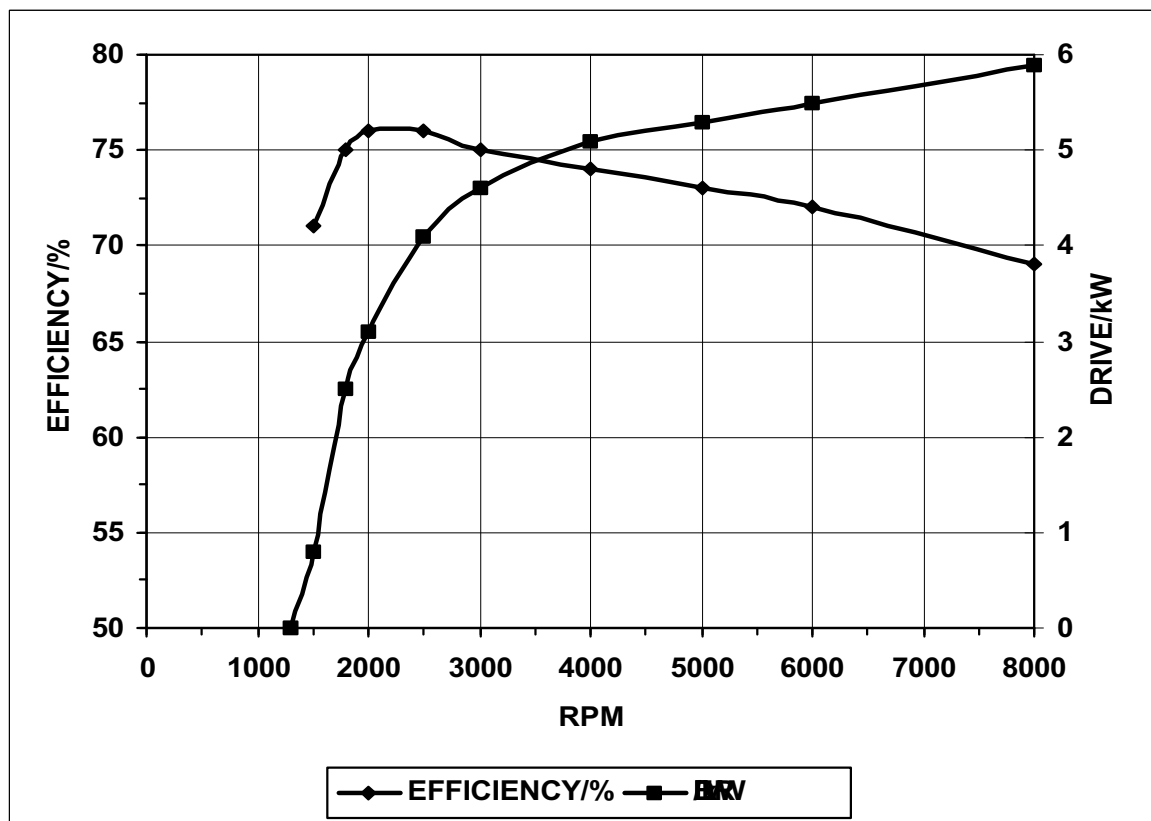
## **DESIGNING FOR TOMORROW'S DEMANDS**

**ALTERNATOR CHARACTERISTICS FOR 28 VOLTS/ 140 AMPS:**

**APPLICABLE MODELS: N1127**

**DRIVE CURVE:** DRIVE HORSEPOWER IN 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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**28V 140A**

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

### **ALTERNATOR CHARACTERISTICS FOR 28 VOLTS/ 140 AMPS: APPLICABLE MODELS: N1127**

#### **SPECIFICATIONS:**

- 140 AMPERE 28 VOLTS NEGATIVE GROUND ALTERNATOR SYSTEM.
- BRUSHLESS 3 PHASE SELF-ENERGIZING AND SELF RECTIFYING.
- AMBIENT OPERATING TEMPERATURE: -54°C/-65°F TO 93°C/200°F.
- BI-DIRECTIONAL ROTATION.
- SEALED BEARINGS: FRONT 206 BALL; REAR 203 BALL.
- UNIT WEIGHT 20 kg/ 44 LBS
- MAXIMUM SPEED 8000 RPM
- PEAK TORQUE AT 22 °C/72°F MACHINE TEMPERATURE IS 17.1 Nm AT 2000 RPM AND 97 AMPERE AT 28.0 VOLTS.
- PEAK DRIVE REQUIREMENTS AT 22 °C/72°F MACHINE TEMPERATURE IS 6.5 kW AT 8000 RPM AND 163 AMPERE LOAD AT 28.0 VOLTS.

#### **Headquarters**

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