

Generator Report

Generator #1

Wednesday, Apr. 23, 2008

Generator Characteristics

Type: 4-Pole Turbine
Size: 500 kW
Usage: Standby Generator
Fuel Type: Diesel
Voltage: 575 VAC, 3-Phase, 60 Hz
Efficiency Factor: 0.96
Power Factor: 0.80
Ambient Temperature: 104 °F
Altitude: 1000 Feet

Conductor / Cable Characteristics

Current: 3-Sets of (3)- 350 kcmils THHN, Cu conductors
Ground: (3)- 250 kcmils THHN, Cu conductors
Distance: 100 Feet
Raceway: Electric Metallic Tubing (EMT)

Load Characteristics

Connected Load: 799.11 A

Motor Loads:

- LIFT (1) - 3.15 HP, 19.00 A, 208 VAC, 1Ø, 60 Hz, 1.00 SF, Cap Start / Cap Run - From: Shop Panel F
- LIFT (1) - 3.15 HP, 19.00 A, 208 VAC, 1Ø, 60 Hz, 1.00 SF, Cap Start / Cap Run - From: Shop Panel F
- GAS HEATER (1) - 0.52 HP, 5.46 A, 120 VAC, 1Ø, 60 Hz, 1.40 SF, Cap Start / Ind Run - From: Shop Panel F
- GAS HEATER (1) - 0.63 HP, 6.58 A, 120 VAC, 1Ø, 60 Hz, 1.40 SF, Cap Start / Ind Run - From: Shop Panel F
- THINNER RECYCLER (1) - 0.96 HP, 10.00 A, 120 VAC, 1Ø, 60 Hz, 1.40 SF, Cap Start / Ind Run - From: Shop Panel E
- THINNER RECYCLER (1) - 0.96 HP, 10.00 A, 120 VAC, 1Ø, 60 Hz, 1.40 SF, Cap Start / Ind Run - From: Shop Panel E
- THINNER RECYCLER (1) - 0.96 HP, 10.00 A, 120 VAC, 1Ø, 60 Hz, 1.40 SF, Cap Start / Ind Run - From: Shop Panel E
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- A/C UNIT (1) - 12.64 HP, 18.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- A/C UNIT (1) - 19.66 HP, 28.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Handler (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Handler (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Dryer (1) - 7.50 HP, 11.31 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel B
- Air Compressor (1) - 50.00 HP, 75.40 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel B
- Mixing Room (1) - 12.44 HP, 15.13 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A
- Sanding Station (1) - 16.74 HP, 23.33 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A
- Prep Station (1) - 40.37 HP, 53.46 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A

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Load Characteristics - cont.

Motor Loads:

- Booth 2 (1) - 40.37 HP, 53.46 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A
- Prep-Station (1) - 40.37 HP, 53.46 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A-1
- Booth 1 (1) - 40.37 HP, 53.46 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A-1
- THINNER RECYCLER (1) - 0.96 HP, 10.00 A, 120 VAC, 1Ø, 60 Hz, 1.40 SF, Cap Start / Ind Run - From: Shop Panel E
- THINNER RECYCLER (1) - 0.96 HP, 10.00 A, 120 VAC, 1Ø, 60 Hz, 1.40 SF, Cap Start / Ind Run - From: Shop Panel E
- THINNER RECYCLER (1) - 0.96 HP, 10.00 A, 120 VAC, 1Ø, 60 Hz, 1.40 SF, Cap Start / Ind Run - From: Shop Panel E
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- A/C UNIT (1) - 12.64 HP, 18.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- A/C UNIT (1) - 19.66 HP, 28.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Handler (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Handler (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Dryer (1) - 7.50 HP, 11.31 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel B
- Air Compressor (1) - 50.00 HP, 75.40 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel B
- Mixing Room (1) - 12.44 HP, 15.13 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A
- Sanding Station (1) - 16.74 HP, 23.33 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A
- Prep Station (1) - 40.37 HP, 53.46 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A
- Booth 2 (1) - 40.37 HP, 53.46 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A
- Prep-Station (1) - 40.37 HP, 53.46 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A-1
- Booth 1 (1) - 40.37 HP, 53.46 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A-1
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- EXHAUST FAN shop (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.60 SF, Full Voltage - From: Panel D
- A/C UNIT (1) - 12.64 HP, 18.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- A/C UNIT (1) - 19.66 HP, 28.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Handler (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Handler (1) - 3.32 HP, 5.00 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Post Lift (1) - 9.52 HP, 14.35 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel D
- Air Dryer (1) - 7.50 HP, 11.31 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel B
- Air Compressor (1) - 50.00 HP, 75.40 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel B
- Mixing Room (1) - 12.44 HP, 15.13 A, 480 VAC, 3Ø, 60 Hz, 1.00 SF, Full Voltage - From: Panel A

