

Job Information

Job #: 94041 Date: March 19, 2018

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Eden Isle Reason:

Contact: Motor#: PO#:

Application: — Special notes: Motor has been wound for 230v only. Name plate info

needs to be corrected.

Name Plate Information

6201959

No

Serial#:

Manufacturer: Smith&Loveless Enclosure: Open Drop Proof Enclosure Type image

(ODP)

Model#: 324-14200-01

Service Factor: Frame: 324upz

Horsepower/kW: 5 Rated RPM: 1160

Rated Amps: 20/10 Rated Voltage: 230/460

Phase: 1 Cycles: 60

Nameplate DE ODE F1 F2 Top



Special design:











WEST TENNESSEE



Mechanical Inspection

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE:

Other

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): None

Shaft rotation: CCW Contaminant(s) Amt: None

Shaft grounding device No Contaminant Image:

present?:

Insulated: No Bearing DE Size: 6312D 2rs

Bearings ODE: Other Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size: 6312D 2rs

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

Bearings DE make:

Other



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type: Grease Thermal Protection device DE: —

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: Full Grease Cond. DE: New

Grease Amt ODE: Full Grease Cond. ODE: New

Seals DE type: Slinger Seals Image:

Seals DE size:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: Other

Seals Image 2:

Shaft Image:



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: Ok



Fan: Ok



Frame cond.:

Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Endbell Image:

Single piece

Missing parts?

☐ J-Box cover

O-rings

☐ J-Box

☐ HH cover

Glands

☐ None

Other missing parts





Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Piece Endbell)

Does Air Gap Meet Customer or EASA spec(<10% variation)?

DE @ 0 ODE @ 0 -

DE @ 90 ODE @ 90

DE @ 180 ODE @ 180

DE @ 270 ODE @ 270

AC Electrical Inspection

Number of leads: — Terminal Markings:

Length of leads: REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: 1-Blue 5-Black P1-No color assigned

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

Lead condition: Good 4-Yellow 8-Red

Connections As Received: Lug type:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor



Rotor Test Results

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: In slot If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

Winding Thermal Protection:

Yes

Winding condition:

Solid

Rewind

Winding Thermal

Protection DE:

Winding Thermal Protection ODE:

Stator test results:

Megs incoming:

Good

Surge incoming:

Good

Hi-pot incoming:

Good

Winding Resistance Incoming

Phases A to B

Phases B to C

Phases C to A

Resistive imbalance

Incoming

Leads/jumpers:

Ok

If other, leads/jumpers:



Conclusion

Component Failure

Cause of Failure

Shaft worn

Comments

Initially found leads were hooked up for rotation in the wrong direction. Re-hooked up the leads for the right rotation and the motor ran good at 230v pulling approximately 16 amps on both legs. However the following discrepancies were noted. The motor is apparently wound for 230v operation only and the 460v information on the motor name plate was not removed. The drive end end bell slinger was caulked to the shaft because of the shaft having excessive wear and needs to be machined to the proper specs. Also the drive end end bell was full of grease and the opposite

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