

Job Information

Job #: 94717

Date: September 13, 2018

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Flakeboard

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Siemens

Enclosure : Totally Enclosed
Fan Cooled

Enclosure Type image

Serial#: F04T0140L0

Model#: 1LA03644FPP1

Service Factor:

Frame: 364T

Horsepower/kW: 60

Rated RPM: 1775

Rated Amps: 142/70.8

Rated Voltage: 230/460

Phase: 3

Cycles: 60

Special design: No



Nameplate

DE

ODE

F1

F2

Top



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

| | | | |
|----------------------------------|----------------|---------------------|------|
| Does the shaft turn freely?: | Yes | Contaminant(s): | None |
| Shaft rotation: | Bi-directional | Contaminant(s) Amt: | None |
| Shaft grounding device present?: | Yes | | |
| Type of grounding device: | Aegis | | |
| Shaft runout(TIR-Inbound): | <.001 | | |

| | | | |
|--------------|------|-------------------|-----|
| Bearings DE: | Good | Bearings DE make: | FAG |
|--------------|------|-------------------|-----|

| | | | |
|------------|----|------------------|--|
| Insulated: | No | Bearing DE Size: | |
|------------|----|------------------|--|

| | | | |
|---------------|------|--------------------|-----|
| Bearings ODE: | Good | Bearings ODE make: | FAG |
|---------------|------|--------------------|-----|

| | | | |
|---------------|------|-------------------|--|
| Bearing Type: | Ball | Bearing ODE Size: | |
|---------------|------|-------------------|--|

| | | | |
|--------------------|----|---------------------|-----|
| Bearings Retainer: | No | Thermal Protection: | Yes |
|--------------------|----|---------------------|-----|

| | | | |
|---------------------|---|--------------------------|---|
| Retainer condition: | — | Thermal Protection Type: | — |
|---------------------|---|--------------------------|---|

Bearing Type Image



Bearing Make Image

Bearing Retainer Image

Not
Available

Thermal Protection

Not
Available

Mechanical Inspection (Continued)

Lubrication Type: Grease

Thermal Protection device DE: —

Lubrication brand inbound: Mobile Polyrex EM

Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full

Grease Cond. DE: New

Grease Amt ODE: Full

Grease Cond. ODE: New

Seals DE type: N/A

Seals DE size:

Seals DE (inbound) condition :

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition
:

Shaft damage cause: None

Shaft Image:



WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

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Phone 501-375-9178
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Mechanical Inspection (Continued)

Brg. Image:



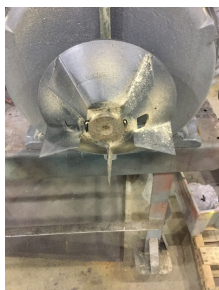
Bushings/sleeves image:



Water jacket: N/A

Fan: Ok

Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

☒ J-Box cover ☐ O-rings ☒ J-Box☐ HH cover ☐ Glands ☐ None

Endbell Image:



Other missing parts

Mechanical Inspection (Continued)

Air Gap Measurements (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: 9

Terminal Markings:

Length of leads: 15"

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

Size of leads:

1-Blue
2-White
3-Orange
4-Yellow

5-Black
6-No color assigned
7-No color assigned
8-Red

P1-No color assigned
P2-Brown

Lead condition: Good

Lug type:

Connections As Received: 460 volt

Lug Condition: Good

Terminal

Lugs

Lug size:

Lug Attachment: —



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor

Rotor Condition: Ok

Num rotor bars:

Num broken bars:



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Turn-Turn short

If other, stator condition:

Failure location: Core edge

If other, stator failure:

Stator Image:



Failure Image:



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AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

Winding Thermal Protection: Yes

Winding condition : Solid

Winding Thermal
Protection DE: —Winding Thermal
Protection ODE: —

Stator test results: Rewind



Megs incoming: Bad

Surge incoming: Bad

Hi-pot incoming: Bad

Winding Resistance Incoming

| | Phases A to B | Phases B to C | Phases C to A | Resistive imbalance |
|----------|---------------|---------------|---------------|---------------------|
| Incoming | 0.124 | 0.161 | 0.126 | 27.7 |

Leads/jumpers: Ok

If other, leads/jumpers:



MILLINGTON, TN

LITTLE ROCK, AR

Conclusion

Component Failure

Windings shorted at edge of stator, 2 coils shorted and grounded

Cause of Failure

Comments

Service Tech name: Lynn McDonald

Service Tech signature:

A handwritten signature in black ink that reads 'Lynn McDonald'.

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