

Job Information

97071 Job #: Date: July 15, 2020

Priority: Authorized OT: No Authorized by:

Customer Information

Name: AIM Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Manufacturer: Siemens Enclosure: Open Drop Proof **Enclosure Type image**

(ODP)

1lg62582aa99z Serial#: Model#:

Service Factor: 250m 1.15 Frame:

Horsepower/kW: 100 Rated RPM: 3580

Rated Amps: 136/132 Rated Voltage: 440/460

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?: No Contaminant(s): None

Shaft rotation: CCW Contaminant(s) Amt: None

Shaft grounding device

present?:

Type of grounding device:

Shaft runout(TIR-Inbound): 0.001

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 215ec

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6215 2z

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease Thermal Protection device DE: -

Lubrication brand inbound: Unknown Thermal Protection device ODE: —

Lubrication brand outbound: Unknown

Grease Amt DE: N/A Grease Cond. DE: Other

Grease Amt ODE: 0 Grease Cond. ODE: Charred

Seals DE type: Isolators

Seals DE size: Special

Seals DE (inbound) condition: Bad

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: Other Shaft Image:





Brg. Image:



Water jacket: N/A Fan: Missing Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount Endbell type: Single piece

Missing parts? Endbell Image:

☐ J-Box cover ☐ O-rings ☐ J-Box

☐ HH cover ☐ Glands ☐ None

Other missing parts

Fan, fan cover





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: 6 Terminal Markings:

Length of leads: 13 foot REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: 2 awg 1-Blue 5-Black P1-No color assigned

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

Lead condition: Bad 4-Yellow 8-Red

Lug type: Copper Connections As Received:

Lug Condition: Good Terminal Lugs

Lug Attachment: —

Fax 901-873-5301

Lug size:

Same



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 28

Num broken bars: 0

Rotor



Rotor Test Results

Rotor Condition:

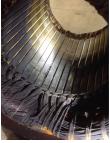
Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Poled If other, stator condition:

Failure location: In slot If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Dull black Winding image Winding Thermal Protection: No

Winding condition: Charred

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

Leads/jumpers: Replace

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Damaged Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 215 ec skf

Shaft runout(TIR-Inbound): 0.001 Bearing ODE Size: 6215 2z

Retainer condition: Good

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Seals DE condition: Worn Brg. Seats DE: Good

Seals DE type: Isolators If DE undersized, amt.:

Seals DE size: Special Brg. Seats ODE: Undersized

Seals DE (inbound) condition: Bad If ODE undersized, amt.: .005

Seals ODE condition: None Shaft damage: Salvageable

Seals ODE type: N/A

Seals ODE size:

Bushings/sleeves DE: Ok

Seals ODE (inbound) condition : Bushings/sleeves ODE: Ok

Endbell fits/damage: Good Foot/Flange condition: Ok

Endbell DE size: 5.1188 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

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5.1186



Conclusion

Component Failure

Bearings, windings, opposite drive end shaft

Cause of Failure

Rear bearing came apart

Comments

Service Tech name: Trevor Hall

Service Tech signature:

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