

Job Information

96269 Job #: Date: November 25,

2019

Priority: Authorized OT: No Authorized by:

Customer Information

Name: **AR Industrial Machinery** Reason:

Contact: Motor#: PO#:

Application: Special notes:

Name Plate Information

Manufacturer: Siemens Enclosure: Totally Enclosed **Enclosure Type image**

Fan Cooled

Serial#: Model#:

Service Factor: 1.15 Frame:

Horsepower/kW: 100 Rated RPM: 3600

Rated Amps: 118/136 Rated Voltage: 440

Phase: 3 Cycles: 60

Special design:

No

Nameplate DE ODE F1 F2 Top







Not Not Available Available



Fax 901-873-5301



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): Oil

Shaft rotation: Bi-directional Contaminant(s) Amt: Other

Shaft grounding device No

present?: Contaminant Image:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 6215EC

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

. . .

Not Available

Seals Image 2:



Mechanical Inspection (Continued)

Lubrication Type: Oil Thermal Protection device DE:

Lubrication brand inbound: Unknown Thermal Protection device ODE:

Lubrication brand outbound: Unknown

> Grease Amt DE: 0 Grease Cond. DE: Other

Grease Amt ODE: 1/4 Grease Cond. ODE: Other

Seals DE type: Seals Image: Isolators

Seals DE size: 3.3479

Seals DE (inbound) condition:

Seals ODE (inbound) condition

Seals ODE type: N/A

Seals ODE size:

Shaft damage cause: Shaft Image: None

Not Available



Mechanical Inspection (Continued)

Brg. Image:



Water jacket: N/A

Not

Available

Fan:

Ok

Endbell Image:

Frame cond.:

Good

Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

O-rings

☐ J-Box

☐ J-Box cover

☐ HH cover

Glands

✓ None

Other missing parts



Lugs



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

Cut

Lug type:

Lug size:

Lug Condition:

Number of leads: 6 Terminal Markings:

Length of leads: 11FT 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

Terminal

3-Orange 7-No color assigned

Lead condition: Good 4-Yellow 8-Red

Connections As Received:

Not Not Lug Attachment: — Available Available

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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: Still has color Winding image Winding Thermal Protection: No

Winding condition: Solid

Winding Thermal Protection DE:

Winding Thermal Protection ODE:

Stator test results: Salvageable

Not Available

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 0.00 0.00 0.00

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 6215EC

Shaft runout(TIR-Inbound): Bearing ODE Size: 6216-2Z

Retainer condition: Good

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Mechanical Inspection (Continued)

Seals DE condition: Worn Brg. Seats DE: Good

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

Seals DE size: 3.3479 Brg. Seats ODE: Good

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

Seals ODE condition: None Shaft damage: OK

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: 5.1190 Foot flatness: Pass

Endbell DE insulated?: —

5.1190

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

variation)?

Endbell ODE insulated?: -

Endbell ODE size:



Conclusion

Component Failure

Cause of Failure

Comments

Both bearings show signs of wear and the seal on the DE is worn. Recommend reconditioning, new bearings, and a new seal.

Mis Mul

Service Tech name: Chris Wiley

Service Tech signature: