

Job Information

Job #: 96410 Date: January 6, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: 3M Reason:

Contact: Motor#: PO#:

Application: – Special notes:

J06T2010ES1

Name Plate Information

Serial#:

Service Factor:

Horsepower/kW:

Manufacturer: Siemens Enclosure: Totally Enclosed Enclosure Type image

B449T

1185

Model#:

Frame:

Rated RPM:

Fan Cooled

Rated Amps: 280.0 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

1.15

250

Nameplate DE ODE F1 F2 Top







WEST TENNESSEE



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?:

No Contaminant Image:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: 6318 2Z

Bearings ODE: Worn Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size: 6316 2Z

Bearings Retainer: Yes Thermal Protection: Yes

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: 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: Slinger Seals Image:

Seals DE size:

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: Other Shaft Image:





Brg. Image:



Bushings/sleeves image:



Water jacket:

N/A

Fan: (

Ok

Frame cond.:

Good



Endbell Image:

Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

✓ J-Box cover

O-rings

J-Box

☐ HH cover

Glands

☐ None

Other missing parts



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: 17" 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: —

Fax 901-873-5301



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 49

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: 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: No

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

Leads/jumpers: Ok Lead jumper Image. :

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: 6318 2Z

Shaft runout(TIR-Inbound): Bearing ODE Size: 6316 2Z

Retainer condition: Good

ax 901-873-5301



Seals DE condition: Worn Brg. Seats DE: Good

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

Seals DE size: 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: Bad Foot/Flange condition: Ok

Endbell DE size: 7.4825 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301 CENTRAL ARKANSAS 6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 Fax 501-375-4254

Lip worn



Conclusion

Component Failure

Both bearings worn. Both housing fits bad and windings test bad on both meg and surge tests.

Cause of Failure

Comments

D.E. End-bell protective cover cracked. D.E. Shaft extension gaulded. Windings failed all electrical tests and require rewind. Both end-bell housing fits are bad and require re-sleeving. End bell Fan cover mount bolt hole needs to be drilled and tapped. Electrical connection box missing.

Service Tech name: Terrence Holland

Service Tech signature: