

Job Information

Job #: 140206 Date: July 18, 2019

Priority: 4 Authorized OT: No Authorized by:

Customer Information

Name: USG Reason: Motor locked up

Contact: Motor#: PO#:

Application: Direct Drive Special notes: Customer requested to have a peckerhead installed on

motor.

Name Plate Information

Manufacturer: Siemens Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: 1LA04054SE41A Model#: RGZESD

Service Factor: 1.15 Frame: 405T

Horsepower/kW: 100 Rated RPM: 1785

Rated Amps: 113 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top















Mechanical Inspection

Type of grounding device:

Shaft runout(TIR-Inbound):

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): Water

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

Shaft grounding device present?: No Contaminant Image:

N/A

N/A

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 6316

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6316

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image Bearing Make Image



Bearing Retainer Image



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type: Grease Thermal Protection device DE: N/A

Lubrication brand inbound: Unknown Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: 1/4 Grease Cond. DE: Watery

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

Seals DE type: Slinger Seals Image:

Seals DE size:

Seals DE (inbound) condition :

Slinger

Seals Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Shaft damage cause: None Shaft Image:

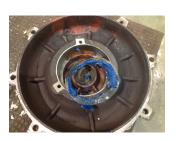


Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N/A



Fan: Ok



Frame cond.:

Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

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: 3 Terminal Markings: 1-3

Length of leads: 12" 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: Bad 4-Yellow 8-Red

Connections As Received: Bad

Lug Condition: Bad Terminal

Lug size:

N/A

Lug Attachment: —

Lug type:



Lugs





AC Electrical Inspection (Continued)

Rotor Type: Barred Copper

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: Coil-Coil short If other, stator condition:

Failure location: Coil head If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Dull black Winding image Winding Thermal Protection:

Winding condition: Charred

Winding Thermal Protection DE:

Winding Thermal Protection ODE:

Stator test results: Rewind





No

Megs incoming: Bad 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: Replace Lead jumper Image. :

If other, leads/jumpers:





Conclusion

Co	mn	one	nt	Fail	ure

Windings burnt

Cause of Failure

Water in motor

Comments

Customer requests that a peckerhead be installed on motor.

Service Tech name: Erich Sodam

Service Tech signature:

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Elle