

### **Job Information**

Job #: 136864 Date: March 13, 2018

Priority: 3 Authorized OT: No Authorized by:

#### **Customer Information**

Name: Usg Reason:

Contact: Will leadbetter Motor#: PO#:

Application: – Special notes:

## **Name Plate Information**

Manufacturer: Siemens Enclosure: Open Drop Proof Enclosure Type image

(ODP)

Serial#: Model#: 1laq4054se41a

Service Factor: Frame: 405t

Horsepower/kW: 100 Rated RPM: 1780

Rated Amps: 113 Rated Voltage: 460

Phase: 3 Cycles:

No

Nameplate DE ODE F1 F2 Top



Special design:











Fax 901-873-5301



# **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 No Contaminant Image:

present?:

Shaft runout(TIR-Inbound):

Type of grounding device:

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: Yes

Retainer condition: — Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection





## **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: Watery

Grease Amt ODE: Full Grease Cond. ODE: Watery

Seals DE type: Slinger Seals Image:

Seals DE size:

Slinger

Seals Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Seals DE (inbound) condition:

Shaft damage cause: None Shaft Image:

AVAILABLE

NOT

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# **Mechanical Inspection (Continued)**

Brg. Image:



Bushings/sleeves image:



Water jacket:

Ok

AVAILABLE



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:

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: — 4-Yellow 8-Red

Connections As Received: Lug type:

Lug size:

Lug Condition:

Lug Attachment: —

Terminal



Lugs





# **AC Electrical Inspection (Continued)**

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 35

Num broken bars: 0

Rotor



#### **Rotor Test Results**

**Rotor Condition:** 

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Other If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: Other If other, stator failure:

Stator Image: Failure Image:







# **AC Electrical Inspection (Continued)**

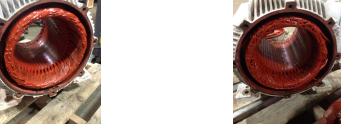
Winding color: Painted Winding image Winding Thermal Protection: Yes

Winding condition: Solid

Winding Thermal \_\_\_\_ Protection DE:

Winding Thermal Protection ODE:

Stator test results: Salvageable



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 0.2 0.2 0.2 0.2

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:





### Conclusion

**Component Failure** 

Over grease

**Cause of Failure** 

Comments

Clean up new bearings

Service Tech name: Terry f

Service Tech signature:

77730