

Job Information

Job #: 96670 Date: March 20, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Arauco Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Reliance Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: Model#: P36C0319K

Service Factor: 1.15 Frame: 364T

Horsepower/kW: 60 Rated RPM: 1775

Rated Amps: 144/72.4 Rated Voltage: 230/460

Phase: 3 Cycles: 60

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?: Contaminant(s): Yes None

> Shaft rotation: Bi-directional Contaminant(s) Amt: None

Shaft grounding device

No present?:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: **FAG**

Insulated: Bearing DE Size: No 6313-2Z

Bearings ODE: Worn Bearings ODE make: SKF

Bearing ODE Size: Bearing Type: Ball 6313 insulated bearing

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: Full Grease Cond. DE: Other

Grease Amt ODE: Full Grease Cond. ODE: Other

Seals DE type: N/A

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: None Shaft Image:





Brg. Image:



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





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

Missing parts? Endbell Image:

☐ J-Box ☐ J-Box cover O-rings

✓ None ☐ HH cover Glands







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: 9 Terminal Markings:

Length of leads: 7in 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: Worn 4-Yellow 8-Red

Lug type: NA Connections As Received:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 48

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: Bottom of slot If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Painted Winding image Winding Thermal Protection: No

Winding condition: Losing bond

Winding Thermal Protection DE:

Winding Thermal
Protection ODE:

Stator test results: Rewind

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: Other 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: 6313

Shaft runout(TIR-Inbound): Bearing ODE Size: 6313

Retainer condition: Good

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Seals DE condition : None Brg. Seats DE: Good

Seals DE type: N/A 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: Good Foot/Flange condition: Ok

Endbell DE size: 5.5139 BAD Foot flatness: Pass

Endbell DE insulated?: —

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

variation)?

Endbell ODE insulated?: -

Endbell ODE size:

5.5120



Conclusion

Component Failure

Cause of Failure

Comments

Windings are blown, DE end bell is over sized, and the bearings show normal signs of wear. Recommend new bearings, rewind, and machine work.

Chas Elely

Service Tech name: Chris Wiley

Service Tech signature: