

Job Information

Job #: 140348 Date: August 6, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Mars Reason:

Contact: Motor#: 140348 PO#:

Application: Direct Drive Special notes:

Name Plate Information

Manufacturer: ABb Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: 3G1F1551304890 Model#: 3GBP312830-

BXGC401

Service Factor: 1.06/1.0 Frame:

Horsepower/kW: 250KW Rated RPM: 2393

Rated Amps: 540 Rated Voltage: 400

Phase: 3 Cycles: 80

Special design: Yes

Nameplate DE ODE F1 F2 Top















Mechanical Inspection

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE:

Inspect bolt holes and fasteners. Validate correct fasteners.

.001

Other

Yes

Does the shaft turn freely?: Contaminant(s): Yes None

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

Shaft grounding device No Contaminant Image:

present?:

Insulated: Bearing DE Size:

Bearings ODE: Other Bearings ODE make: SKF

Bearing Type: Bearing ODE Size: Ball 6316M/C4VL0241

Thermal Protection: Bearings Retainer: Yes Yes

Retainer condition: Good Thermal Protection Type: **RTD**

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

Bearings DE make:

SKF

6316M/C3



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type: Grease Thermal Protection device DE: Good

Lubrication brand inbound: Unknown Thermal Protection device ODE: Good

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: Labyrinth Seals Image:

Seals DE size:

Seals DE (inbound) condition: Good

Seals Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Good

Labyrinth

Shaft damage cause: Shaft Image: None

Fax 901-873-5301



Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: Ok

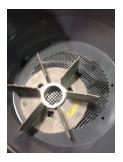


Fan: C



Frame cond.:

Good





Motor Mount Position:

Vertical Flange 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: 12 Terminal Markings: W1W2-U1U2-V1V2 /

RTDs13-14-15-15-16-17-18 /

Length of leads: 10" REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: #1 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: Delta

Lug size: 3/8

Reg

Good

Lug type:

Lug Condition:

Lug Attachment: Acceptable

Terminal



Lugs





Ok

AC Electrical Inspection (Continued)

Rotor Type: Cast Bronze

Num rotor bars: 51

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: Ok

Failure location: Other If other, stator failure: N/A

Stator Image: Failure Image





Fax 901-873-5301



AC Electrical Inspection (Continued)

Winding color: Painted

Winding image

Winding Thermal Protection:

Yes

Winding condition:

Losing bond

Winding Thermal Protection DE:

Good

Winding Thermal Protection ODE:

Good

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

Leads/jumpers:

If other, leads/jumpers:

Ok

Lead jumper Image.:



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



Conclusion

Com	ponent	Failure
-----	--------	----------------

N/A

Cause of Failure

There was not any failure . This is just a reconditioning of the motor which is usually a typical of any storage motor for the customer

Comments

This motor is marked backwards meaning DE is #2 ODE IS #1

THE BEARINGS ARE BOTH INSTANT COAT 6316 BUT ONE IS A C3 AND THE OTHER IS A C4 THE 6316C3 GOES ON THE DRIVE END / THE 6316C4 GOES ON THE OPPOSITE DRIVE END (6316C3-DE-2 punch mark) (6316C4-ODE-1 punch mark)

Service Tech name: Michael Jordan

Service Tech signature: