

### **Job Information**

Job #:	96610				Date:	March 4, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

### **Customer Information**

Name:	AIM		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

## **Name Plate Information**

Manufacturer:	ABB	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	3G1P185000805	Model#:	МЗАА
Service Factor:	1.15	Frame:	250
Horsepower/kW:	75	Rated RPM:	3579
Rated Amps:	117	Rated Voltage:	440
Phase:	3	Cycles:	60
Special design:	No		

#### Enclosure Type image



Nameplate

DE

ODE

F1

F2









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# **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		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	213
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	215/ BB1-4582
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

#### Bearing Type Image



Bearing Make Image



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**Thermal Protection** 



# **Mechanical Inspection (Continued)**

Lubrication Type:	Oil	Thermal Protection device DE:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Unknown		
Grease Amt DE:	N/A	Grease Cond. DE:	Other
Grease Amt ODE:	0	Grease Cond. ODE:	Other
Seals DE type:	Other		
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:	



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#### **Mechanical Inspection (Continued)**

Brg. Image:



Water jacket:	Ok	Fan:	Ok	Frame cond.:	Good

Motor Mount Position: Horizontal/Foot mount

Endbell type:

Single piece



Missing parts?

# Endbell Image:



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Other missing parts

Fan Cover



# **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Sing	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	

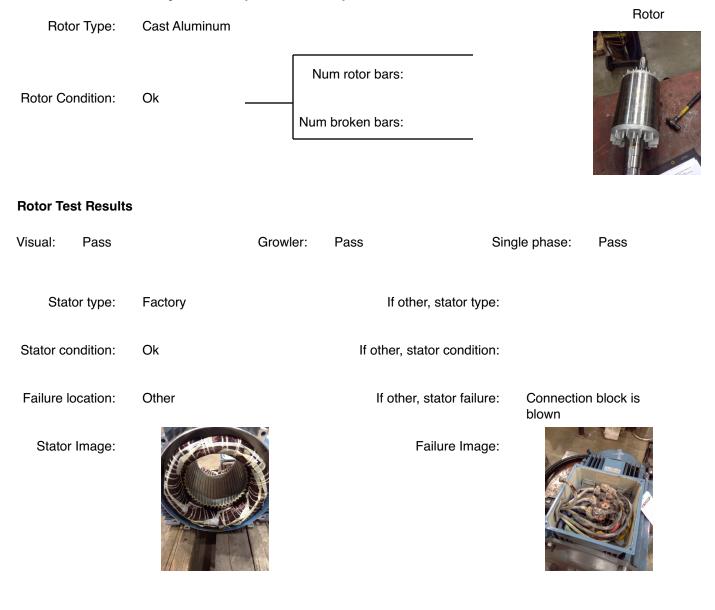
# **AC Electrical Inspection**

Number of leads:	6	Terminal Markings:		
Length of leads:	13in	REF: NEMA Sto Markings Identif	ls. MG 1-2009, Rev. 1- ïed By Color:	2010, 2.41-Terminal
Size of leads:	F3	1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Worn	4-Yellow	8-Red	
Lug type:		Connections As Re	eceived:	
Lug Condition:	Bad		Terminal	Lugs
Lug size:				
Lug Attachment:	_			

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#### **AC Electrical Inspection (Continued)**



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# **AC Electrical Inspection (Continued)**

Winding color	: Like new	Winding	g image Wir	nding Thermal Protectio	n: No
Winding condition	: Solid		un num		
Mindin or Theorem			A CONTRACTOR		
Winding Therma Protection DE					
Winding Therma Protection ODE					
Stator test results	: Salvageable				
					<b>a</b> 1
Megs incoming:	Good	Surge incoming:	Good	Hi-pot incoming:	Good
Winding Resistanc	e Incoming				
P	hases A to B	Phases B to C	Phases C	to A Resistive	imbalance
Incoming C	0.00	0.00	0.00		
Leads/ju	mpers: Ok				
lf other, leads/ju	mpers:				
, , <b>,</b> .					
Mechanical I	spection				
	ispection				
Inspect bolt holes ar	nd fasteners. Valida	ate correct fasteners.			
Shaft C	Condition: Good		Bearings Re	etainer: Yes	

Shan Conulion.	Cloud	Dearings Netamer.	165
Type of grounding device:		Bearing DE Size:	213
Shaft runout(TIR-Inbound):		Bearing ODE Size:	215

Retainer condition: 0

n: Good

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Other	Brg. Seats DE:	Good
Seals DE type:	Other	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:	ОК
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:	4.7253	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	5.1185	variation)?	
Endbell ODE insulated?:	_		

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#### Conclusion

**Component Failure** 

**Cause of Failure** 

Comments

Both bearings show normal signs of wear and the connection block is blown from a loose connection in the the leads. Recommend new connection block, new bearings, and reconditioning

Service Tech name: Chr

Chris Wiley

Service Tech signature:

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