

MILLINGTON, TN LITTLE ROCK, AR

Job Information

Job #:	96885				Date:	May 22, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	3M company		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Siemens	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	E06T0623FU	Model#:	
Service Factor:	1.15	Frame:	405T
Horsepower/kW:	100	Rated RPM:	1780
Rated Amps:	113	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image





DE

ODE

F1

F2

Тор







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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	Contaminant(s):	Grease
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Fell Apart	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

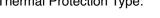


Bearing Make Image



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Bearing Retainer Image



Thermal Protection



Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Unknown		
Grease Amt DE:	1/4	Grease Cond. DE:	Hard
Grease Amt ODE:	Full	Grease Cond. ODE:	Watery
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:	



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Mechanical Inspection (Continued)

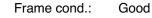
Brg. Image:



Water jacket:	N/A
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Fan: Ok







Single piece

Motor Mount Position:	Horizontal/F	oot mount		Endbell type:
Missing parts?			Endbell Image:	
J-Box cover	O-rings	J-Box		-6
HH cover	Glands	None		



Other missing parts

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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Pie	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

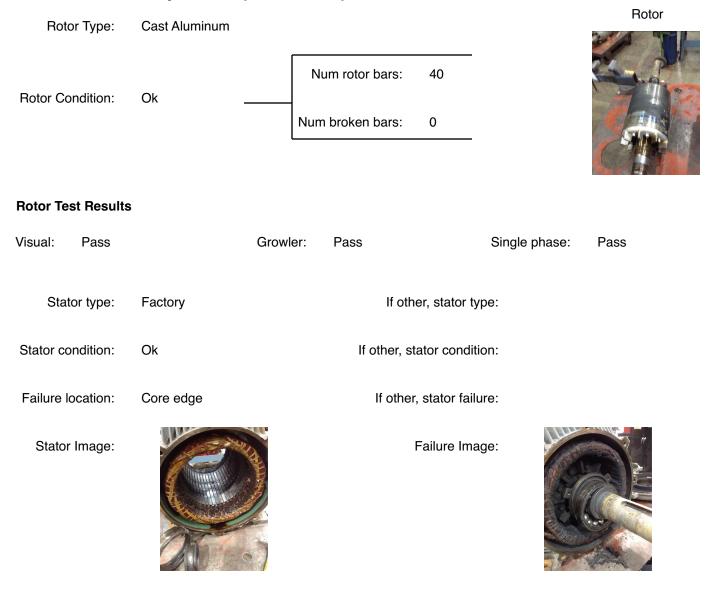
Number of leads:	3	Terminal Markings:		
Length of leads:	16 in	REF: NEMA Sto Markings Identi	ds. MG 1-2009, Rev. 1- fied By Color:	2010, 2.41-Terminal
Size of leads:		1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Worn	4-Yellow	8-Red	
Lug type:	NA	Connections As R	eceived:	
Lug Condition:	_		Terminal	Lugs
Lug size:				
Lug Attachment:	_			

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AC Electrical Inspection (Continued)



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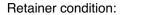


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AC Electrical Inspection (Continued)

Winding color:	Dull black	Winding	g image Wind	ling Thermal Protec	ction: No
Winding condition :	Solid				
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				
Pha	ases A to B	Phases B to C	Phases C to	A Resis	tive imbalance
Incoming 0.0	00	0.00	0.00		
Leads/jum	pers: Other		Lead jump	per Image. :	
If other, leads/jum	ipers:				
Mechanical In	spection				
Inspect bolt holes and	l fasteners. Valida	te correct fasteners.			
Shaft Co	ondition: Good		Bearings Reta	ainer: Yes	

Type of grounding device: Bearing DE Size: 6316 Shaft runout(TIR-Inbound): Bearing ODE Size: 6316



Good

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Mechanical Inspection (Continued)

Seals DE condition :	Worn	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 :	Worn	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:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	6.6949	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	6.6985	variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

Cause of Failure

Comments

Fan cover bolts are broke off, bearings failed, DE bearing fit on shaft is undersized, both end bells are over sized, signs of core damage and the windings are blown. Recommend new bearings, rewind, replacement of fan cover bolts, and machine work.

Service Tech name: Chris Wiley

Service Tech signature:

Chry Lly

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