

Job Information

Job #:	96053				Date:	October 3, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Baldor	Enclosure :	Open Drop Proof (ODP)	Enclo
Serial#:	f499	Model#:		6
Service Factor:	1.15	Frame:	145TCZ	
Horsepower/kW:	3	Rated RPM:	3450	
Rated Amps:	7.4/3.7	Rated Voltage:	230/460	
Phase:	3	Cycles:	60	
Special design:	No			

Enclosure Type image



Nameplate

DE

ODE

F1

F2

Тор



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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:	FAG
Insulated:	No	Bearing DE Size:	6205
Bearings ODE:	Worn	Bearings ODE make:	FAG
Bearing Type:	Ball	Bearing ODE Size:	6203
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:	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:	1/4	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:	

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Mechanical Inspection (Continued)

Brg. Image:



Water	jacket:	N/A
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Fan: Ok



Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount

O-rings

Glands

Endbell type:

Single piece

Endbell Image:





Other missing parts

Missing parts?

J-Box cover

HH cover

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J-Box

None



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	

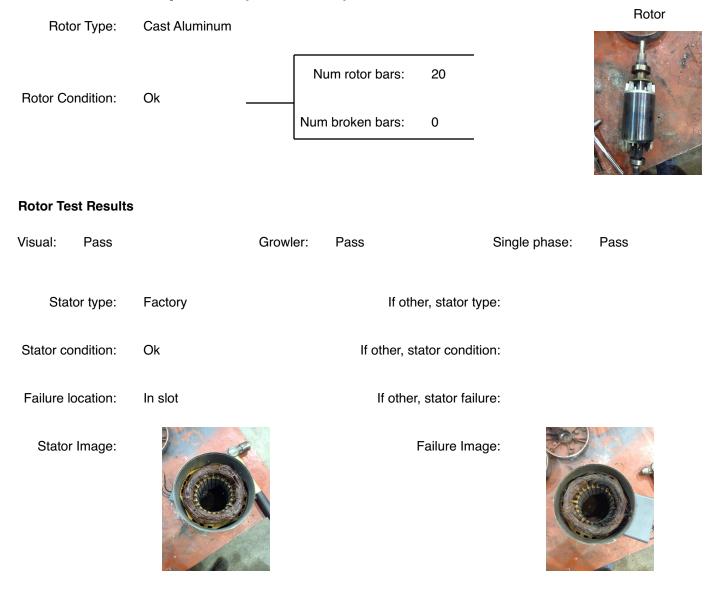
AC Electrical Inspection

Number of leads:	3	Terminal Markings	:			
Length of leads:	6 1/2 inch	REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:				
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:	Good	4-Yellow	8-Red			
Lug type:		Connections As F	Received:			
Lug Condition:	_		Terminal	Lugs		
Lug size:						
Lug Attachment:	_					

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding color:	Dull black	Winding	image	Winding Thermal P	rotection: No
Winding condition :	Solid				
Winding Thermal Protection DE:	_				
Winding Thermal Protection ODE:	_				
Stator test results:	Rewind				
Megs incoming: Go	bod	Surge incoming:	Good	Hi-pot incor	ning: Good
Winding Resistance In	coming				
Phase	es A to B	Phases B to C	Phases	s C to A R	esistive imbalance
Incoming 0.00		0.00	0.00		
Leads/jumpe	ers: Ok				
If other, leads/jumpe	ers:				

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6205
Shaft runout(TIR-Inbound):	0.001	Bearing ODE Size:	6203

Retainer condition: Good

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Mechanical Inspection (Continued)

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:	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:	2.0478	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	1.5770BAD	variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

Cause of Failure

Comments

Windings are blown at cores edge. ODE bearing shows signs of contamination and corrosion. ODE endbell is over sized. Recommend reconditioning, rewind, and machine work.

Service Tech name: Chris Wiley

Service Tech signature:

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