

# **Job Information**

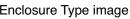
Job #:	96419				Date:	January 8, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

### **Customer Information**

Name:	Process and power		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

### **Name Plate Information**

Manufacturer:	IR	Enclosure :	Open Drop Proof (ODP)	Enclosure Typ
Serial#:	740787/002	Model#:	Hpm250dm	1
Service Factor:		Frame:	lp23	
Horsepower/kW:	300 hp	Rated RPM:	2700	
Rated Amps:	425	Rated Voltage:	460	
Phase:	3	Cycles:	60	
Special design:	No			





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):	Good		
Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	NU320ECP
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Roller	Bearing ODE Size:	6320C3
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:	Charred
Grease Amt ODE:	Full	Grease Cond. ODE:	Charred
Seals DE type:	Isolators	Seals Image:	
Seals DE size:	110x130x12		$\bigcirc$
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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IN/A

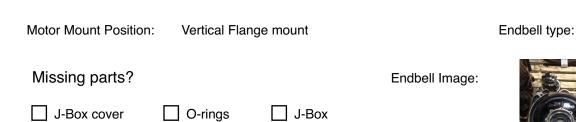
Fan:

N/A

Fi

Frame cond.: Good





Single piece



HH cover

Glands 🛛 🗹 None

#### Other missing parts

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# **Mechanical Inspection (Continued)**

			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:	_	Terminal Markings:		
Length of leads:	7 foot 7"	REF: NEMA Sto Markings Identii	ls. MG 1-2009, Rev. 1- ïed By Color:	2010, 2.41-Terminal
Size of leads:	16mm2	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:	Copper	Connections As Re	eceived:	
Lug Condition:	Good		Terminal	Lugs
Lug size:	MR2010+			
Lug Attachment:	-			

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# **AC Electrical Inspection (Continued)**

Rotor Type:	Other			Rotor
Rotor Condition:	Ok	Num rotor bars: um broken bars:		
Rotor Test Results				
Visual: Pass	Growler:	Pass	Single phase:	Pass
Stator type:	Factory	If other, stator ty		
Stator condition:	Ok	If other, stator conditi	.on:	
Failure location:	Other	If other, stator fail	ıre:	
Stator Image:				

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# **AC Electrical Inspection (Continued)**

Like new	Winding	g image	Winding Therma	Protection:	No
Solid	d				
_					
_					
Salvageable					
ood	Surge incoming:	Good	Hi-pot in	coming: Go	od
coming					
es A to B	Phases B to C	Phase	es C to A	Resistive imba	alance
ers: Ok		Lea	d jumper Image. :		2
ers:					
pection					
	Solid  Salvageable Salvageable coming ers: Ok ers: Ok ers:	Solid - - Salvageable Salvageable Salvageable Salvageable Surge incoming: Phases B to C Phases B to C	Solid - Solid - Salvageable od Surge incoming: Good coming es A to B Phases B to C Phase ers: Ok Lea	Solid - Solid	Solid - Event of the set of the

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	NU320ECP
Shaft runout(TIR-Inbound):	0.001	Bearing ODE Size:	6320C3
Retainer condition:	Good		

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	Isolators	If DE undersized, amt.:	
Seals DE size:	Same	Brg. Seats ODE:	Undersized
Seals DE (inbound) condition :	Same	If ODE undersized, amt.:	0.0006
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:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	8.4685	Foot flatness:	Pass
Endbell DE insulated?:	No	Does Air Gap Meet Cu	stomer or EASA spec(<10%
Endbell ODE size:	8.4680	variation)?	
Endbell ODE insulated?:	No	_	

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### Conclusion

#### **Component Failure**

Bearings, seal, fiberglass bearing fit, winding sensor, both endbells

#### **Cause of Failure**

Worn seal and normal wear

#### Comments

Service Tech name: Trevor Hall

Service Tech signature:

// -pla

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