



Hi-Speed Industrial Service  
7030 Ryburn Dr  
Millington, Tn 38053  
901-873-5300

## AC Inspection as Found

Draslovka  
2571 Fite Road  
Millington, TN 38057

FolderID: 153432  
FormID: 21285784



### AC Inspection - Rev. 2

Completed by: JAMES VALENTINE on  
08/13/2024

Location: Default

Serial Number: 6891424

Description: 250 Hp Reliance

Hi-Speed Job Number:	153432
Manufacturer:	Reliance
Serial Number:	6891424
HP/kW:	250 (HP)
RPM:	1790 (RPM)
Frame:	449T
Voltage:	460
Current:	277 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	Coupling
Date Received:	08/13/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 53 - Good

### Overall Condition



● 1. Report Date

08/13/2024

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2. Nameplate Picture

P2



3. Photos of all six sides of the machine.

P3









4.	Describe the Overall Condition of the Equipment as Received		
	<i>Good</i>		
5.	Distance from the end of the shaft to the Coupling/Sheave	0 inches	
6.	Report Date [COPY]		
Initial Mechanical/Electrical			<input type="checkbox"/>
7.	Does Shaft Turn Freely?	(Y) Yes	
8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
9.	Does Shaft Have Visible Damage?	(No) No	
10.	Assembled Shaft Runout	Inches	
11.	Assembled Shaft End Play		
12.	Air Gap Variation <10%		
13.	Lead Condition	(P) Pass	
14.	Lead Length	28 Inches	
15.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
	3/8		
16.	Lead Numbers	t1-t3	
17.	Frame Condition	good	
18.	Fan Condition	(P) Pass	P18



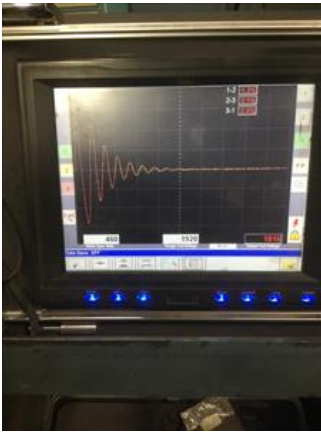
19.	Broken or Missing Components	none	
Initial Electrical Inspection			<input type="checkbox"/>

<div> <div>20. Insulation Resistance/Megger</div> <div>   </div> </div>	<div> <div>Megohms</div> <div>   </div> </div>	<div> <div>P20</div> <div> <div></div> <div></div> </div> </div>
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<div> <div>21. Winding Resistance</div> <div> <div>1-2</div> <div>1-3</div> <div>2-3</div> </div> </div>	<div> <div>P21</div> <div> <div></div> <div></div> </div> </div>
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<div> <div>22. Perform Surge Test</div> <div> <div>(P) Pass</div> </div> </div>	<div> <div>P22</div> <div> <div></div> <div></div> </div> </div>
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23.	Number of Stator Slots	73	
24.	Stator Condition	good	
25.	Stator Thermistors/Ohms		
26.	Stator Overloads/Ohms		
<b>Mechanical Inspection</b>			
27.	Drive End Bearing Brand	fag	
28.	Drive End Bearing Number-	6318	
29.	Drive End Bearing Qty.	1	
30.	Drive End Bearing Type	(Ball) Ball Bearing	
31.	Drive End Lubrication Type	(Grease) Grease Lubricated	
32.	Drive End Bearing Insulation or Grounding Device?	none	
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
34.	Drive End Bearing Condition	good	P34



35.	Opposite Drive End Bearing Brand	skf	
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37. Opposite Drive End Bearing Qty.

1

38. Opposite Drive End Bearing Type

(Ball) Ball Bearing

39. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated

40. Opposite Drive End Bearing Insulation or Grounding Device?

insulated bearing

41. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

wavy washer

P41



42. Opposite Drive End Bearing Condition

good

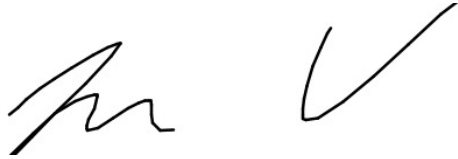
P42




43. Drive End Seal

44. Opposite Drive End Seal

**Rotor Inspection**

45.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
46.	Growler Test	(Pass) Pass		
47.	Number of Rotor Bars	50		
48.	Rotor Condition	good		
49.	List the Parts needed for the Repair Below 1-6318 insulated bearing 1-6318 bearing 1-bearing snap ring			
50.	Signature of Technician that Disassembled Motor	James Valentine		
				
<b>Mechanical Fits- Rotor</b>				
51.	Shaft Runout	inches		
52.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
53.	Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 Degrees	120 Degrees	
	3.375	3.375	3.375	
54.	Coupling Fit Closest to the end of the Shaft			
	0 Degrees	60 Degrees	120 Degrees	
	3.374	3.374	3.374	
55.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.543	3.543	3.543	
	3.5440/3.5434			
56.	Drive End Bearing Shaft Fit Condition	(P) Pass		
57.	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
	3.5438	3.5438	3.5438	
	3.5440/3.5434			
58.	Opposite Drive End Bearing Shaft Fit Condition	(P) Pass		
59.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
<b>Mechanical Fits- Bearing Housings</b>				
60.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
	7.4812	7.4812	7.4812	
	7.4803/7.4814			
61.	Drive End - Endbell Bearing Fit Condition	(P) Pass		

62.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	7.4803	7.4803	7.4803
	7.4803/7.4814		
63.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
64.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	good	good	
65.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
66.	List Machine Work Needed Below		
	None		
67.	Technician		James Valentine
			
<b>Root Cause of Failure</b>			
68.	Failure locations		
	Reconditioning		
69.	Root cause of failure		
	N/a		