



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

AC Inspection as Found
MISSISSIPPI SILICON, LLC
P.O. BOX 316
BURNSVILLE, MS 38833

FolderID: 152629
FormID: 20158362



AC Inspection - Rev. 2

Location: Shop

Serial Number:

Hi-Speed Job Number:	152629
Manufacturer:	SEW Eurodrive
Product Number:	R67 R36 DRS71S4/TF
Serial Number:	01.7188018701.0006.15
HP/kW:	.37 (kW)
RPM:	1700 (RPM)
Voltage:	460
Current:	1.83/1.06 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/19/2024
Bearing RTDs:	No
Stator RTDs:	Yes
Repair Stage:	Teardown Inspection
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 11 - High ● 55 - Good

Overall Condition



- | | |
|---|------------|
| ● 1. Report Date | 04/23/2024 |
| ● 2. Nameplate Picture | P2 |



- | | |
|---|----|
| ● 3. Photos of all six sides of the machine. | P3 |
|---|----|

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



4. Describe the Overall Condition of the Equipment as Received






Rewind needs new fan no machine work

Initial Mechanical/Electrical



- | | |
|--|------------------------------|
| 5. Does Shaft Turn Freely? | (N) No |
| 6. Does the shaft require T.I.R in Lathe to identify additional repairs? | (No) No |
| 7. Does Shaft Have Visible Damage? | (No) No |
| 8. Assembled Shaft Runout
<i>N/A motor locked up</i> | Inches |
| 9. Assembled Shaft End Play
<i>N/A motor locked up</i> | inches |
| 10. Air Gap Variation <10% | no provision for measurement |

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

11.	Lead Condition	(P) Pass	
12.	Lead Length	6 Inches	
13.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
14.	Lead Numbers	no numbers	
15.	Stator Temperature Detector Rating and Function		
	Quantity	Rating	Quantity Passed
16.	Frame Condition	good	
17.	Fan Condition	(F) Fail	P17
<div style="display: flex; justify-content: space-around;">   </div>			
18.	Broken or Missing Components	yes	
	<i>Fan melted</i>		
Initial Electrical Inspection 			
19.	Insulation Resistance/Megger	0 Megohms	P19
<div style="display: flex; justify-content: space-around;">   </div>			
20.	Winding Resistance		
	1-2	1-3	2-3
	0	0	0
	<i>Burnt</i>		



22. Number of Stator Slots	24
23. Stator Condition	rewind
24. Stator Thermistors/Ohms	N/A
25. Stator Overloads/Ohms	N/A

Mechanical Inspection

26. Drive End Bearing Brand	nsk
27. Drive End Bearing Number-	6303 zz c3
28. Drive End Bearing Qty.	1
29. Drive End Bearing Type	(Ball) Ball Bearing
30. Drive End Lubrication Type	(Grease) Grease Lubricated
31. Drive End Bearing Insulation or Grounding Device?	none present
32. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring





34. Opposite Drive End Bearing Brand	skf	
35. Opposite Drive End Bearing Number-	6203	
36. Opposite Drive End Bearing Qty.	1	
37. Opposite Drive End Bearing Type	(Ball) Ball Bearing	
38. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
39. Opposite Drive End Bearing Insulation or Grounding Device?	none present	
40. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	P40



Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.



43. Opposite Drive End Seal lip seal P43
16-28-7



Rotor Inspection

- | | |
|--|--------------------------------------|
| 44. Rotor Type/Material | (Aluminum Bar) Aluminum Barred Rotor |
| 45. Growler Test | (Pass) Pass |
| 46. Number of Rotor Bars | 30 |
| 47. Rotor Condition | good |
| 48. List the Parts needed for the Repair Below
1- 16-28-7 lipseal
1- 17-30-7 lipseal
1- Fan
1- 6203 zz
1- 6303 zz | |
| 49. Signature of Technician that Disassembled Motor | Nigel Hill |



Mechanical Fits- Rotor

- | | | |
|-----------------------|------------|----------------------------|
| 50. Shaft Runout | inches | |
| 51. Rotor Runout | | |
| Drive End Bearing Fit | Rotor Body | Opposite Drive End Bearing |

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

52.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
53.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	0.6693	0.6694	0.6694
	Tol. 0.6695-0.6692		
55.	Drive End Bearing Shaft Fit Condition (P) Pass		
56.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	0.6695	0.6694	0.6695
	Tol. 0.6695-0.6692		
57.	Opposite Drive End Bearing Shaft Fit Condition (P) Pass		
58.	Shaft Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	good	good	
Mechanical Fits- Bearing Housings			
59.	Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.8506	1.8506	1.8506
	Tol. 1.8504-1.8510		
60.	Drive End - Endbell Bearing Fit Condition (P) Pass		
61.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	1.5753	1.5754	1.5754
	Tol. 1.5748-1.5754		
62.	Opposite Drive End - Endbell Bearing Fit Condition (P) Pass		
63.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	N/A	N/A	
64.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	good	good	
65.	List Machine Work Needed Below None		
66.	Technician 		
	Nigel Hill		
Root Cause of Failure			
67.	Failure locations		

68. Root cause of failure