



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

**AC Inspection as Found**  
**MARS FOOD (0001269)**  
1098 N. Broadway  
Greenville, MS 38701

FolderID: 155285  
FormID: 24097609



**AC Inspection - Rev. 2**

Location: Motor Shop

Serial Number:

Description: 11KW AC

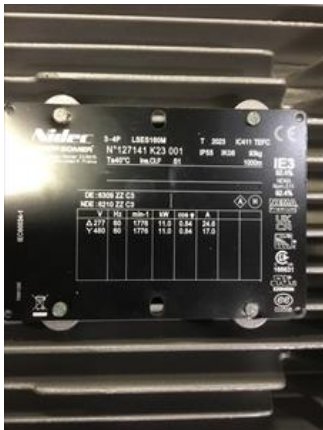
Hi-Speed Job Number:	155285
Manufacturer:	US Motors/Nidec
HP/kW:	11 (kW)
RPM:	1776 (RPM)
Voltage:	480
Current:	17 (Amps)
Phase:	Three
Hz:	60 (Hz)
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	04/08/2026
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 3 - High ● 10 - Good

**Overall Condition**



- |                      |            |
|----------------------|------------|
| 1. Report Date       | 04/14/2025 |
| 2. Nameplate Picture | P2         |





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

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4. Describe the Overall Condition of the Equipment as Received		
<i>Stator passed all electrical tests. Drive end bearing failed. Needs bore and bushing installed in opposite drive end and damaged end of shaft filed.</i>		
<input checked="" type="radio"/>	5. Is this a UL Listed Motor	(No) No
<input checked="" type="radio"/>	6. Is the motor water cooled or can be pressure checked before teardown	(No) No
<b>Initial Mechanical/Electrical</b>		<input type="checkbox"/>
<input checked="" type="radio"/>	7. Does Shaft Turn Freely?	(N) No
<input checked="" type="radio"/>	8. Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	9. Does Shaft Have Visible Damage?	(Yes) Yes
<div style="display: flex; justify-content: space-around;">   </div>		
10.	Assembled Shaft Runout	Inches
11.	Assembled Shaft End Play	inches
12.	Air Gap Variation <10%	No Provisions for measurement

P9



14. Lead Length	6 Inches	
15. Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
#10		
16. Lead Numbers	UVW 1-2	
17. Are the Leads insulated with Chico or other material	(No) No	
18. Frame Condition	Pass	
19. Fan Condition	(N) NA	
20. Does motor have internal fan?	(No) No	
21. Broken or Missing Components	Yes	P21



Missing fan and fan shroud.

## Initial Electrical Inspection





23. Winding Resistance

1-2

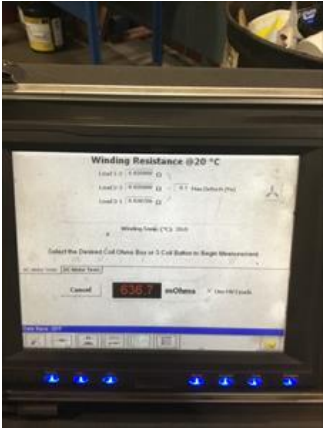
1-3

2-3

.6359

.6358

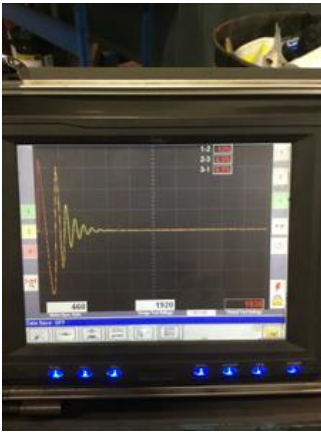
.6367



24. Perform Surge Test

(P) Pass






25. Number of Stator Slots	48	
26. Stator Condition	Pass	P26
<div>  <i>Stator had moisture present. Stator was dried out and retested.</i> </div>		






27. Stator Thermistors/Ohms	230	P27
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28. Stator Overloads/Ohms	N/A	
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<b>Mechanical Inspection</b>		
29. Drive End Bearing Brand	UNK	
30. Drive End Bearing Number-	6309 2RS C3	
31. Drive End Bearing Qty.	1	
32. Drive End Bearing Type	(Ball) Ball Bearing	
33. Drive End Lubrication Type	(Grease) Grease Lubricated	

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34. Drive End Bearing Insulation or Grounding Device?	None	
35. Drive End Wavy Washer/Snap-Ring Other Retention Device?	Snap Ring and seal sleeve	P35
		
36. Drive End Bearing Condition	Destroyed	P36
		
37. Opposite Drive End Bearing Brand	HCH	P37
		
38. Opposite Drive End Bearing Number-	6210 2RS C3	
39. Opposite Drive End Bearing Qty.	1	
40. Opposite Drive End Bearing Type	(Ball) Ball Bearing	
41. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
42. Opposite Drive End Bearing Insulation or Grounding Device?	None	
43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Wavy Washer	
44. Opposite Drive End Bearing Condition	Normal wear	P44

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45. Drive End Seal

50 62 7

P45



46. Opposite Drive End Seal

VA50

P46



## Rotor Inspection



47. Rotor Type/Material

(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast

48. Growler Test

(Pass) Pass

49. Number of Rotor Bars

40





51. List the Parts needed for the Repair Below

50 62 7  
VA 50  
6210 2rs C3  
6309 3rs C3

52. Signature of Technician that Disassembled Motor

Brandon Woodard

### Mechanical Fits- Rotor



53. Shaft Runout **0.002 inches**

54. Rotor Runout

Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
<b>0.001</b>	<b>0.001</b>	<b>0.001</b>

55. Coupling Fit Closest to Bearing Housing

P55

0 Degrees	90 Degrees	120 Degrees
<b>1.378</b>	<b>1.378</b>	<b>1.378</b>



56. Coupling Fit Closest to the end of the Shaft

0 Degrees	60 Degrees	120 Degrees
<b>1.378</b>	<b>1.378</b>	<b>1.378</b>

57. Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.7719	1.7719	1.7719

1.7718-1.7722



58. Drive End Bearing Shaft Fit Condition

(P) Pass

59. Opposite Drive End Bearing Shaft Fit

0 Degrees	60 Degrees	120 Degrees
1.969	1.969	1.969

1.9686-1.9690



60. Opposite Drive End Bearing Shaft Fit Condition



(P) Pass

61. Shaft Air Seal Fits

Drive End Air Seal	Opposite Drive End Air Seal
Pass	Pass

Mechanical Fits- Bearing Housings



62.	Drive End - Endbell Bearing Fit			P62
	0 Degrees	60 Degrees	120 Degrees	
	3.9381	3.9381	3.9381	
	<div><div></div>Tolerance is 3.9370-3.9379. .0002 over tolerance recommend no machine work</div>			
				
63.	Drive End - Endbell Bearing Fit Condition			(P) Pass
64.	Opposite Drive End - Endbell Bearing Fit			P64
	0 Degrees	60 Degrees	120 Degrees	
	3.5455	3.5452	3.5452	
	<div><div></div>Tolerance is 3.5433-3.5442</div>			
				
65.	Opposite Drive End - Endbell Bearing Fit Condition			(F) Fail
66.	Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	Pass	N/A		
67.	End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Pass	Pass		
68.	List Machine Work Needed Below			
	Bore and bush opposite driveend. Repair end of shaft.			
69.	Technician			Brandon Woodard



#### Root Cause of Failure

70. Failure locations

*Drive end bearing.*

71. Root cause of failure

*No grease.*