



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

AC Recondition Repair Report

FolderID: 98135
FormID: 10483161

Molex, Inc. (10511)
801 Murphy Dr.
Maumelle, AR 72113

Priorities Found: ● 1 - High ● 13 - Good

General

1. Job Number	98135
2. Report Date	04/22/2021
3. Customer	MOLEX

Name Plate Information

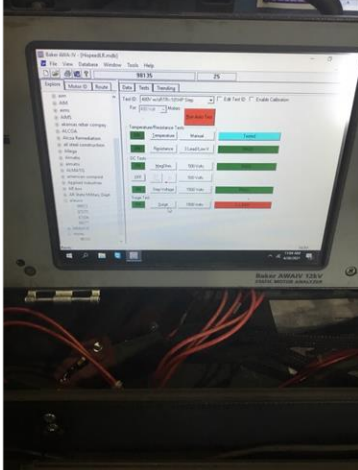
4. Manufacturer

BALDOR

P5






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5. Model	CAT# EM2547T
6. Serial Number	Z0510100310
7. Horsepower	60
8. KW	
9. Volts	460
10. Amps	68
11. RPM	1775
12. Frame	364T
13. Enclosure	TEFC
14. Cycles	60
15. Phase	3

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16. Service Factor	1.15	
17. Motor Mount Position		
Initial Inspection		
18. Number of Leads	9	P13
		
19. Lead Length	12 Inches	
20. Lead Size		
● 21. Lead Condition	(P) Pass	P42
		
22. Lead Markings	1-9	
23. Lug Size, Condition, and Type		
24. Winding RTD's		
25. Winding Rtd's Condition		
26. Shaft Run Out	0.001	
27. Does Shaft Turn Freely	yes	
28. Does Shaft Have Visible Damage	no	
29. Bearing Rtd's	(NA) Not Applicable	
● 30. Bearing Rtd's Condition	(NA) Not Applicable	
31. Contamination		P104
<i>Dirty</i>		

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32. Frame Condition

(P) Pass

P106



33. Fan Condition

(NA) Not Applicable

34. Broken or missing components

Initial Electric Test

35. Resistance to Ground

36. Winding Resistance 1-2

37. Winding Resistance 2-3

38. Winding Resistance 1-3

39. Resistive Imbalance

40. Hi-Pot

41. Surge Test

(P) Pass

Tested bad with new machine. Retested with old machine and stator tested good.

42. Stator Condition

pass

43. Failure Location

Initial Rotor Inspection



44. Rotor Type

laminate press squirrel cage

P4



45. Air Gap <10% Variation

46. Number of Rotor Bars

47. Number of Broken Rotor Bars

0

● 48. Growler Test

(P) Pass

● 49. Rotor Condition

(P) Pass

P50



Mechanical Inspection



50. Bearing Manufacture

SKF

51. Bearing DE Size

6313 Z C3

P15



52. Bearing DE Type

deep groove ball bearing

53. DE Bearing Qty.

1

54. Bearing ODE Size

6311 Z C3

P43





55. Bearing ODE Type	deep groove ball bearing	
56. ODE Bearing Qty.	1	
57. Insulated Bearing		
58. Lubrication Type	grease	
59. Grease Condition	(F) Fail	P74



60. Bearing Retainers	(NA) Not Applicable	
61. Shaft Grounding Device	(NA) Not Applicable	
62. DE Seal	(NA) Not Applicable	
63. DE Seal Type/Size		
64. ODE Seal	(NA) Not Applicable	
65. ODE Seal Type/Size		


Root Cause of Failure

66. Component Failure	bearings worn	
67. Cause of Failure	Contaminated grease	
68. Comments	Stator windings tested bad with new tester. Retested windings with old machine, windings tested good.	
69. Service Technician	Terrence. Holland	

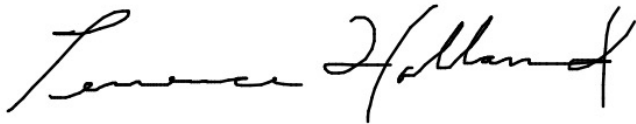
Terrence Holland

Machine Fit Inspection Report



70.	Shaft Run Out	
71.	Initial Shaft Run Out	
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(P) Pass
74.	DE Initial Shaft Bearing Fit Size 1	2.559 "
75.	DE Initial Shaft Bearing Fit Size 2	2.559 "
76.	DE Initial Shaft Bearing Fit Size 3	2.559 "
77.	DE Finial Shaft Bearing Fit Size 1	
78.	DE Finial Shaft Bearing Fit Size 2	
79.	DE Finial Shaft Bearing Fit Size 3	
80.	ODE Bearing Shaft Fit	(P) Pass
81.	ODE Initial Shaft Bearing Fit Size 1	2.1653 "
82.	ODE Initial Shaft Bearing Fit Size 2	2.1652 "
83.	ODE Initial Shaft Bearing Fit Size 3	2.1652 "
84.	ODE Finial Shaft Bearing Fit Size 1	
85.	ODE Finial Shaft Bearing Fit Size 2	
86.	ODE Finial Shaft Bearing Fit Size 3	
87.	DE Air Seal Shaft Fit	
88.	DE Initial Air Seal Shaft Size	
89.	DE Final Air Seal Shaft Size	
90.	ODE Air Seal Shaft Fit	
91.	ODE Initial Air Seal Shaft Size	
92.	ODE Final Air Seal Shaft Size	
93.	DE Endbell Fit	P129
		
94.	DE Initial Endbell Fit Size 1	5.5129 "
95.	DE Initial Endbell Fit Size 2	5.5124 "
96.	DE Initial Endbell Fit Size 3	5.5122 "
97.	DE Final Endbell Fit Size 1	
98.	DE Finial Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	
100.	DE Endbell Fit Insulated	
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Finial Endbell Air Seal Fit Size	
104.	ODE Endbell Fit	

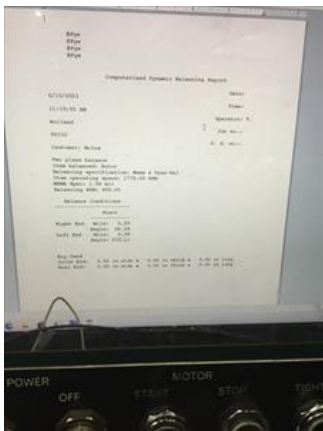
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105. ODE Initial Endbell Fit Size 1	4.7244 "
106. ODE Initial Endbell Fit Size 2	4.7246 "
107. ODE Initial Endbell Fit Size 3	4.7247 "
108. ODE Final Endbell Fit Size 1	
109. ODE Final Endbell Fit Size 2	
110. ODE Final Endbell Fit Size 3	
111. ODE Endbell Fit Insulated	(NA) Not Applicable
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Final Endbell Seal Fit Size	
115. Foot Flatness	(P) Pass
116. Foot Condition	(P) Pass
117. Flange Condition	(NA) Not Applicable
118. Service Technician	Terrence. Holland
	

 **Rewind stator.**

Balancing Report

119. Balance Type nema standard P6



- 120. Balance Operating Speed
- 121. Start Left End
- 122. Start Right End
- 123. Balancing Specification
- 124. Finish Left End
- 125. Finish Right End
- 126. Service Technician

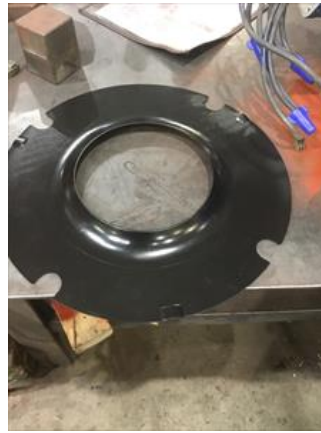
Assembly and Final Test

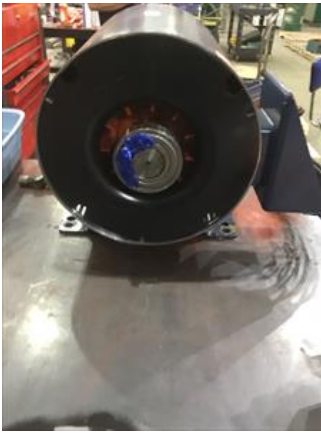
- 127. Meggar Testing Reading Mohm
- 128. Surge Test
- 129. Hi-Pot Ua
- 130. Winding Resistance 1-2
- 131. Winding Resistance 2-3

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132.	Winding Resistance 1-3	
133.	Test Run Voltage Phase A	
134.	Test Run Amps A	
135.	Test Run Voltage Phase B	
136.	Test Run Amps B	
137.	Test Run Voltage Phase C	
138.	Test Run Amps C	
139.	DE Horizontal Vibration Reading	0.05 In/Sec
140.	DE Vertical Vibration Reading	0.03 In/Sec
141.	DE Axial Vibration Reading	0.03 In/Sec
142.	ODE Horizontal Vibration Reading	0.04 In/Sec
143.	ODE Vertical Vibration Reading	0.05 In/Sec
144.	ODE Axial Vibration Reading	0.02 In/Sec
145.	Ambient Temp at start of Test Run	
146.	Temp at 5 minutes	
147.	Temp at 10 minutes	
148.	Temp at 15 minutes	
149.	Temp at 20 minutes	
150.	Temp at 25 minutes	
151.	Temp at 30 minutes	
152.	Temp at 35 minutes	
153.	Temp at 40 minutes	
154.	Temp at 45 minutes	
155.	Temp at 50 minutes	
156.	Temp at 55 minutes	
157.	Temp at 60 minutes	
● 158.	Motor Paint	(P) Pass P136









159. Service Technician

Terrence. Holland

Terrence Holland