



AC Recondition As Found

Kimberly Clark (10176-KCM)

500 Murphy Dr.
Maumelle, AR 72113

FolderID: 100155
FormID: 14283902

AC Recondition - Rev. 2

Location: Shop
Serial Number: 29MN323320
Description: 40HP RELIANCE 1800RPM 324T

Hi-Speed Job Number:	100155
Manufacturer:	Reliance
Product Number:	P32G3320J G9
Serial Number:	29MN323320
HP/kW:	40 (HP)
RPM:	1775 (RPM)
Frame:	324T
Voltage:	460
Current:	49.5
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: ● 4 - Good

Overall Condition



1. Report Date
2. Nameplate Picture

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3. Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received
Serviceable

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Initial Mechanical/Electrical



● 5.	Does Shaft Turn Freely?	(Yes) Yes
6.	Does Shaft Have Visible Damage?	(No) No
7.	Assembled Shaft Runout	0.001 Inches
8.	Assembled Shaft End Play	
9.	Air Gap Variation <10%	
● 10.	Lead Condition	(P) Pass
11.	Lead Length	
12.	Frame Condition	pass

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14. Broken or Missing Components

fan cover bolt broken off.
requires drill and tap

Initial Electrical Inspection



15. Insulation Resistance/Megger

16. Winding Resistance

1-2

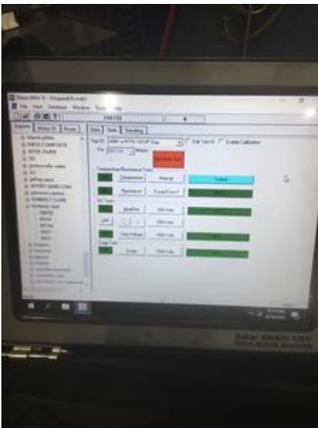
1-3

2-3

17. Perform Surge Test

(P) Pass

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18. Stator Condition

saturated with oil

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Mechanical Inspection

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19.	Drive End Bearing Number-	6311
20.	Drive End Bearing Qty.	1
21.	Drive End Bearing Type	(Ball) Ball Bearing
22.	Drive End Lubrication Type	(Grease) Grease Lubricated
23.	Drive End Bearing Insulation or Grounding Device?	none
24.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none
25.	Drive End Bearing Condition	worn
26.	Opposite Drive End Bearing Number-	6311
27.	Opposite Drive End Bearing Qty.	1
28.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
29.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
30.	Opposite Drive End Bearing Insulation or Grounding Device?	none
31.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	
32.	Opposite Drive End Bearing Condition	worn
33.	Drive End Seal	
34.	Opposite Drive End Seal	

Rotor Inspection

35.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
36.	Growler Test	(Pass) Pass
37.	Number of Rotor Bars	
38.	Rotor Condition	good
39.	List the Parts needed for the Repair Below	
40.	Signature of Technician that Disassembled Motor	Terrence Holland



Mechanical Fits- Rotor

41.	Shaft Runout		
42.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
43.	Coupling Fit Closest to Bearing Housing		
	0 Degrees	90 Degrees	120 Degrees
44.	Coupling Fit Closest to the end of the Shaft		
	0 Degrees	60 Degrees	120 Degrees
45.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
46.	Drive End Bearing Shaft Fit Condition		
47.	Opposite Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
48.	Opposite Drive End Bearing Shaft Fit Condition		

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49. Shaft Air Seal Fits	Drive End Air Seal	Opposite Drive End Air Seal	
Mechanical Fits- Bearing Housings			
50. Drive End - Endbell Bearing Fit	0 Degrees	60 Degrees	120 Degrees
51. Drive End - Endbell Bearing Fit Condition			
52. Opposite Drive End - Endbell Bearing Fit	0 Degrees	60 Degrees	120 Degrees
53. Opposite Drive End - Endbell Bearing Fit Condition			
54. Bearing Cap Condition	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
55. End Bell Air Seal Fits	Drive End Air Seal	Opposite Drive End Air Seal	
56. List Machine Work Needed Below			
57. Technician			
Dynamic Balance Report			
58. Rotor Weight and Balance Grade	Rotor Weight	Balance Grade	
59. Initial Balance Readings	Drive End	Opposite Drive End	
60. Final Balance Readings	Drive End	Opposite Drive End	
61. Technician			
Rewind			
62. Core Test Results - Watts loss per Pound	Pre-Burnout	Post Burnout	
63. Core Hot Spot Test	Pre-Burnout	Post-Burnout	
64. Post Rewind Electrical Test- Insulation Resistance			
65. Post Rewind Polarization Index			
66. Post Rewind Winding Resistance	1-2	1-3	2-3
67. Post Rewind Surge Test			
68. Post Rewind Hi-Pot			
69. Technician			
Root Cause of Failure			

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70.	Failure locations		
71.	Root cause of failure		
Mechanical Fits- Rotor - Post Repair			
72.	Shaft Runout Post Repair		
73.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
74.	Coupling Fit Closest to Bearing Housing Post Repair		
	0 Degrees	90 Degrees	120 Degrees
75.	Coupling Fit Closest to the end of the Shaft Post Repair		
	0 Degrees	60 Degrees	120 Degrees
76.	Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
77.	Opposite Drive End Bearing Shaft Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
78.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
79.	Shaft Repair Sign-off		
Mechanical Fits- Bearing Housings - Post Repair			
80.	Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
81.	Opposite Drive End - Endbell Bearing Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees
82.	Bearing Cap Condition Post Repair		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
83.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
84.	End Bell Repair Sign-off		
Assembly			
85.	Photograph All Major Components prior to assembly		
86.	Final Insulation Resistance Test		
87.	Assembled Shaft Endplay		
88.	Assembled Shaft Runout		
89.	Test Run Voltage		
	Volts	Volts	Volts

90. Test Run Amperage	Amps	Amps	Amps
91. Drive End Vibration Readings - Inches Per Second	Horizontal	Vertical	Axial
92. Opposite Drive End Vibration Readings - Inches Per Second	Horizontal	Vertical	Axial
93. Ambient Temperature - Fahrenheit			
94. Drive End Bearing Temps - Fahrenheit	5 Minutes	10 Minutes	15 Minutes
95. Opposite Drive End Bearing Temps - Fahrenheit	5 Minutes	10 Minutes	15 Minutes
96. Final Test Run Sign-off			
97. Document Final Condition with Pictures after paint			
98. Final Pics and QC Review			Terrence. Holland P2300

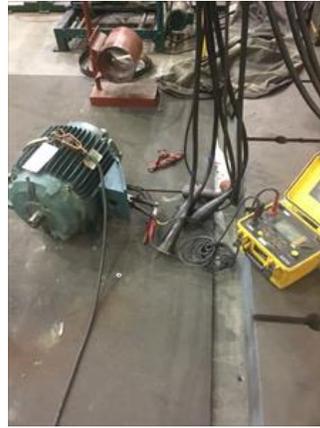
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