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P37

FolderID: 101156



## **AC Recondition As Found ARKANSAS SERVICE ONE**

14318 EAST POLK ROAD **ALEXANDER, AR 72002** 

AC Recondition - Rev. 2

MOTOR SHOP LR Location: Serial Number: 6936289A-003

Description: 15HP RELIANCE 1800RPM 254T

FormID: 16338623

Manufacturer:	Reliance
Product Number:	P25G5292A
Serial Number:	6936289A-003
HP/kW:	15 (HP)
RPM:	1765 (RPM)
Frame:	254T
Voltage:	230 / 460
Current:	39/19.5
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Sheave
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final

No

Random Wound

Rolling Element

101156

**Hi-Speed Job Number:** 

Priorities Found: **2 - High** 



6 - Good

Heaters:

Winding Type:

**Bearing Type:** 

# **Overall Condition**

Report Date















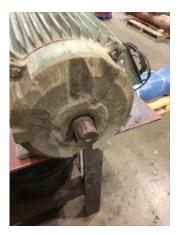




















3. Photos of all six sides of the machine.

Describe the Overall Condition of the Equipment as Received
 Ok

5. Distance from the end of the shaft to the Coupling/Sheave 0.75 inches

#### **Initial Mechanical/Electrical**

6.	Does Shaft Turn Freely?	(Yes) Yes
7.	Does Shaft Have Visible Damage?	(No) No

- 8. Assembled Shaft Runout
- 9. Assembled Shaft End Play
- 10. Air Gap Variation <10%
- 11. Lead Condition (P) Pass
- 12. Lead Length 12 Inches
- 13. Frame Condition good
- 14. Fan Condition (F) Fail

15. Broken or Missing Components fan broken 1 5/8 shaft 7 1/2 fan diameter

### **Initial Electrical Inspection**

16. Insulation Resistance/Megger Megohms

17. Winding Resistance

1-2 1-3 2-3

## 18. Perform Surge Test





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P57

(P) Pass

19. Number of Stator Slots

Mechanical Inspection 21. Drive End Bearing Brand 22. Drive End Bearing Number- 23. Drive End Bearing Qty. 24. Drive End Bearing Type 25. Drive End Bearing Type 26. Drive End Bearing Insulation or Grounding Device? 27. Drive End Bearing Insulation or Grounding Device? 28. Drive End Bearing Insulation or Grounding Device? 29. Drive End Bearing Condition 20. Drive End Bearing Condition 20. Opposite Drive End Bearing Rumber- 21. Opposite Drive End Bearing Rumber- 22. Opposite Drive End Bearing Rumber- 23. Opposite Drive End Bearing Rumber- 24. Opposite Drive End Bearing Type 25. Drive End Bearing Rumber- 26. Drive End Bearing Rumber- 27. Opposite Drive End Bearing Rumber- 28. Opposite Drive End Bearing Rumber- 39. Opposite Drive End Bearing Rumber- 39. Opposite Drive End Bearing Type 30. Opposite Drive End Bearing Rumber- 30. Opposite Drive End Bearing Insulation or Grounding Device? 30. Opposite Drive End Bearing Insulation or Grounding Device? 30. Opposite Drive End Bearing Condition 31. Opposite Drive End Bearing Condition 32. Opposite Drive End Bearing Condition 33. Opposite Drive End Bearing Condition 34. Opposite Drive End Bearing Condition 35. Opposite Drive End Bearing Condition 36. Opposite Drive End Bearing Condition 37. Drive End Seal 38. Opposite Drive End Seal 39. Rotor Type/Material 39. Rotor Type		Stator Condition	ok
21. Drive End Bearing Brand 22. Drive End Bearing Number- 6309 2RS 23. Drive End Bearing Oty 1 24. Drive End Bearing Type (Ball) Ball Bearing 25. Drive End Bearing Type (Gall) Ball Bearing 26. Drive End Bearing Insulation or Grounding Device? no 27. Drive End Wavy Washer/Snap-Ring Other Retention Device? no 28. Drive End Bearing Condition rusty water contamination 29. Opposite Drive End Bearing Stand 30. Opposite Drive End Bearing Type (Ball) Ball Bearing 31. Opposite Drive End Bearing Type (Ball) Ball Bearing 32. Opposite Drive End Bearing Type (Ball) Ball Bearing 33. Opposite Drive End Bearing Type (Grease) Grease Lubricated 34. Opposite Drive End Bearing Insulation or Grounding Device? no 35. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? wavy 36. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device? wavy 37. Drive End Seal no 38. Opposite Drive End Seal 39. Rotor Type/Material (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast 40. Growler Test (Pass) Pass 41. Number of Rotor Bars 42. Rotor Condition good 43. List the Parts needed for the Repair Below 2 - 6309 2RS bearings, replacement fan 15/8 shaft/ 7 1/2 fan diameter 44. Signature of Technician that Disassembled Motor David Maclin	Mecha	anical Inspection	
23. Drive End Bearing Cty.  24. Drive End Bearing Type (Ball) Ball Bearing 25. Drive End Bearing Insulation or Grounding Device? no Drive End Bearing Insulation or Grounding Device? no Drive End Bearing Condition 27. Drive End Wavy Washer/Snap-Ring Other Retention Device? no Deposite Drive End Bearing Strand 30. Opposite Drive End Bearing Rumber- 31. Opposite Drive End Bearing Cty. 32. Opposite Drive End Bearing Type (Ball) Ball Bearing 33. Opposite Drive End Bearing Type (Ball) Ball Bearing 34. Opposite Drive End Bearing Insulation or Grounding Device? no Deposite Drive End Bearing Insulation or Grounding Device? no Deposite Drive End Bearing Insulation or Grounding Device? no Deposite Drive End Bearing Condition frosting Drive End Seal no Rotor Inspection 39. Rotor Type/Material (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast Drive End Bearing Device Type/Material (Squirrel Aluminum) Devices Device Type/Material (Squirrel Aluminum) Devices Device Type/Material Device Test Device Te		•	
24. Drive End Bearing Type (Ball) Ball Bearing 25. Drive End Lubrication Type (Grease) Grease Lubricated 26. Drive End Bearing Insulation or Grounding Device? no 27. Drive End Wavy Washer/Snap-Ring Other Retention Device? no 28. Drive End Bearing Condition rusty water contamination 29. Opposite Drive End Bearing Brand 30. Opposite Drive End Bearing Number- 31. Opposite Drive End Bearing Otty. 1 32. Opposite Drive End Bearing Type (Ball) Ball Bearing 33. Opposite Drive End Bearing Type (Grease) Grease Lubricated 34. Opposite Drive End Bearing Insulation or Grounding Device? no 35. Opposite Drive End Bearing Insulation or Grounding Device? wavy 36. Opposite Drive End Bearing Condition frosting 37. Drive End Seal no 38. Opposite Drive End Seal no 39. Rotor Type/Material (Squirrel Aluminum) Squirrel Cage Aluminum Die Cast 40. Growler Test (Pass) Pass 41. Number of Rotor Bars 42. Rotor Condition good 43. List the Parts needed for the Repair Below 2 - 6309 2RS bearings, replacement fan 1 5/8 shaft/ 7 1/2 fan diameter 44. Signature of Technician that Disassembled Motor David Maclin  Mechanical Fits- Rotor 45. Shaft Runout Drive End Bearing Fit Rotor Body Opposite Drive End Bearing	22.	Drive End Bearing Number-	6309 2RS
25. Drive End Lubrication Type 26. Drive End Bearing Insulation or Grounding Device? 27. Drive End Wavy Washer/Snap-Ring Other Retention Device? 28. Drive End Bearing Condition 29. Opposite Drive End Bearing Brand 30. Opposite Drive End Bearing Number- 31. Opposite Drive End Bearing Qty. 31. Opposite Drive End Bearing Qty. 32. Opposite Drive End Bearing Type 33. Opposite Drive End Bearing Insulation or Grounding Device? 34. Opposite Drive End Bearing Insulation or Grounding Device? 35. Opposite Drive End Bearing Insulation or Grounding Device? 36. Opposite Drive End Bearing Condition 37. Drive End Seal 38. Opposite Drive End Bearing Condition 39. Rotor Type/Material 40. Growler Test 40. Growler Test 40. Growler Test 41. Number of Rotor Bars 42. Rotor Condition 43. List the Parts needed for the Repair Below 44. Signature of Technician that Disassembled Motor 44. Signature of Technician that Disassembled Motor 45. Shaft Runout 46. Rotor Runout 46. Rotor Runout 46. Drive End Bearing Fit 47. Rotor Body 48. Opposite Drive End Bearing Fit 49. Opposite Drive End Bearing Fit 40. Opposite Drive End Seal 40. Drive End Bearing Fit 41. Number of Rotor Bars 42. Signature of Technician that Disassembled Motor 43. Drive End Bearing Fit 44. Signature of Technician that Disassembled Motor 45. Shaft Runout 46. Rotor Runout 47. Drive End Bearing Fit 48. Rotor Body 49. Opposite Drive End Bearing 49. Opposite Drive End Bearing 40. Opposite Drive End Bearing	23.	Drive End Bearing Qty.	1
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45. Shaft Runout  46. Rotor Runout  Drive End Bearing Fit Rotor Body Opposite Drive End Bearing	44.	Signature of Technician that Disassembled Motor	David Maclin
46. Rotor Runout  Drive End Bearing Fit Rotor Body Opposite Drive End Bearing			
Drive End Bearing Fit Rotor Body Opposite Drive End Bearing			
	45.	Shaft Runout	
47 Counting Fit Closest to Bearing Housing	45.	Shaft Runout Rotor Runout	
11. Coupling I it Globost to Douring Flouding	45.	Shaft Runout Rotor Runout	Opposite Drive End Bearing
0 Degrees 90 Degrees 120 Degrees	45.	Shaft Runout Rotor Runout Drive End Bearing Fit Rotor Body	Opposite Drive End Bearing
	45. 46.	Shaft Runout Rotor Runout Drive End Bearing Fit Rotor Body  Coupling Fit Closest to Bearing Housing	
48. Coupling Fit Closest to the end of the Shaft	45. 46.	Shaft Runout Rotor Runout Drive End Bearing Fit Rotor Body  Coupling Fit Closest to Bearing Housing	
0 Degrees 60 Degrees 120 Degrees	45. 46. 47.	Shaft Runout Rotor Runout Drive End Bearing Fit Rotor Body  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degrees	
	45. 46. 47.	Shaft Runout  Rotor Runout  Drive End Bearing Fit Rotor Body  Coupling Fit Closest to Bearing Housing  0 Degrees 90 Degrees  Coupling Fit Closest to the end of the Shaft	120 Degrees
49. Drive End Bearing Shaft Fit	45. 46. 47.	Shaft Runout  Rotor Runout  Drive End Bearing Fit Rotor Body  Coupling Fit Closest to Bearing Housing  0 Degrees 90 Degrees  Coupling Fit Closest to the end of the Shaft	120 Degrees
-	45. 46. 47.	Shaft Runout  Rotor Runout  Drive End Bearing Fit Rotor Body  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degrees  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degrees	120 Degrees
1.772 1.772 1.772	45. 46. 47.	Shaft Runout Rotor Runout Drive End Bearing Fit Rotor Body  Coupling Fit Closest to Bearing Housing 0 Degrees 90 Degrees  Coupling Fit Closest to the end of the Shaft 0 Degrees 60 Degrees  Drive End Bearing Shaft Fit	120 Degrees

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	50.	Drive End Bearing Shaft Fit Condi			(P) Pass	
	51.	Opposite Drive End Bearing Shaft	t Fit			
		0 Degrees	60 Degrees	120 Degrees		
		1.7722	1.7722	1.7722		
	52.	Opposite Drive End Bearing Shaft	t Fit Condition		(P) Pass	
	53.	Shaft Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
M	echa	nical Fits- Bearing Housings				
	54.	Drive End - Endbell Bearing Fit				
		0 Degrees	60 Degrees	120 Degrees		
		3.9372	3.9373	3.9373		
	55.	Drive End - Endbell Bearing Fit Co			(F) Fail	
	56.	Opposite Drive End - Endbell Bea	ring Fit			
		0 Degrees	60 Degrees	120 Degrees		
		3.9372	3.9372	3.9372		
	57.	Opposite Drive End - Endbell Bea	ring Fit Condition		(P) Pass	
	58.	Bearing Cap Condition				
		Drive End Bearing Cap	Opposite Drive End Bearing Cap			
	59.	End Bell Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
	60.	List Machine Work Needed Below None	1			
	61.	Technician		I	David Maclin	
		$\sim$				
	1					
					_	
Dy		ic Balance Report				0
	62.	Rotor Weight and Balance Grade				
		Rotor Weight	Balance Grade			
	63.	Initial Balance Readings				
		Drive End	Opposite Drive End			

Drive End Opposite Drive End



65. Technician

Rowing	

66. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

67. Core Hot Spot Test

Pre-Burnout Post-Burnout

- 68. Post Rewind Electrical Test- Insulation Resistance
- 69. Post Rewind Polarization Index
- 70. Post Rewind Winding Resistance

1-2 1-3

- 71. Post Rewind Surge Test
- 72. Post Rewind Hi-Pot
- 73. Technician

#### **Root Cause of Failure**

- 74. Failure locations
- 75. Root cause of failure

## Mechanical Fits- Rotor - Post Repair

- 76. Shaft Runout Post Repair
- 77. Rotor Runout Post Repair

Drive End Bearing Fit Rotor Body Opposite Drive End Bearing

2-3

78. Coupling Fit Closest to Bearing Housing Post Repair

0 Degrees 90 Degrees 120 Degrees

79. Coupling Fit Closest to the end of the Shaft Post Repair

0 Degrees 60 Degrees 120 Degrees

	80.	Drive End Bearing Shaft Fit Post F	Repair	
		0 Degrees	60 Degrees	120 Degrees
	81.	Opposite Drive End Bearing Shaft	Fit Post Repair	
		0 Degrees	60 Degrees	120 Degrees
	82.	Shaft Air Seal Fits Post Repair		
		Drive End Air Seal	Opposite Drive End Air Seal	
	83.	Shaft Repair Sign-off		
Me		nical Fits- Bearing Housings -	•	
	84.	Drive End - Endbell Bearing Fit Po	•	
		0 Degrees	60 Degrees	120 Degrees
	85.	Opposite Drive End - Endbell Bea	•	
		0 Degrees	60 Degrees	120 Degrees
	86.	Bearing Cap Condition Post Repa		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	87.	End Bell Air Seal Fits Post Repair		
		Drive End Air Seal	Opposite Drive End Air Seal	
	88.	End Bell Repair Sign-off		

88. End Bell Repair Sign-off

#### **Assembly**

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- 89. QC Check All Parts for Cleanliness Prior to Assembly
- 90. Photograph All Major Components prior to assembly

P17























- 91. Final Insulation Resistance Test
- 92. Assembled Shaft Endplay
- 93. Assembled Shaft Runout
- 94. Test Run Voltage P53

Volts Volts Volts





95. Test Run Amperage

Amps Amps Amps

96. Drive End Vibration Readings - Inches Per Second

Horizontal Vertical Axial

97.	Opposite Drive End Vibration	Readings - Inches Per Second		
	Horizontal	Vertical	Axial	
98.	Ambient Temperature - Fahre	nheit		
99.	Drive End Bearing Temps - Fa	ahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
100.	Opposite Drive End Bearing T	emps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
101.	Document Final Condition with	n Pictures after paint		
102.	Final Pics and QC Review		Terrence Holland	P102
		0		









