



**KEEPING YOUR FACILITY UP TO SPEED**  
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

**Job Number 102082**

Prepared for Union Pacific-Vine St 10945

1020 N. Vine Street  
North Little Rock AR

# Table of Contents

AC Inspection as Found - *Shop*

AC Inspection - Rev. 2: *A13T4017GPE*

**1.0**

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*Printed on 11/29/2023*

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

## AC Inspection as Found


Union Pacific-Vine St 10945  
1020 N. Vine Street  
North Little Rock, AR

FolderID: 102082  
FormID: 18399230

### AC Inspection - Rev. 2

Location: Shop  
Serial Number: A13T4017GPE  
Description: 15HP SIEMENS 1800RPM 254T

Hi-Speed Job Number:	102082
Manufacturer:	Siemens
Product Number:	1LE22212BB114AA3
Serial Number:	A13T4017GPE
HP/kW:	15 (HP)
RPM:	1770 (RPM)
Frame:	254T
Voltage:	230 / 460
Current:	38/19
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.0
Enclosure:	TEFC
J-box Included:	Complete
Coupling/Sheave:	Sheave
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found:  8 - Good

### Overall Condition

1. Report Date
2. Nameplate Picture



3. Photos of all six sides of the machine.

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4. Describe the Overall Condition of the Equipment as Received

*Dirty*

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

**inches**

*Flush*



### Initial Mechanical/Electrical

6. Does Shaft Turn Freely?	(Yes) Yes
7. Does Shaft Have Visible Damage?	(No) No
8. Assembled Shaft Runout	Inches
<i>Na</i>	
9. Assembled Shaft End Play	inches
<i>Na</i>	
10. Air Gap Variation <10%	
<i>Na</i>	
11. Lead Condition	(P) Pass
12. Lead Length	8 Inches
13. Lead Numbers	1-9
14. Frame Condition	pass

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15. Fan Condition

(P) Pass



16. Broken or Missing Components

na

Initial Electrical Inspection

17. Insulation Resistance/Megger

5611 Megohms

Test Date	11/17/2023	11/17/2023
Test Time	10:58:18 AM	10:47:26 AM
L1-L2 (Ohms)	0.488 Corr: 0.4...	
L2-L3 (Ohms)	0.488 Corr: 0.4...	
Max Delta R %	0.088	
Coil 1 (Ohms)	0.730 Corr: 0.7...	
Coil 2 (Ohms)	0.732 Corr: 0.7...	
Coil 3 (Ohms)	0.732 Corr: 0.7...	
Megohm Stat.	PASS	No Test
Volts (V)	508	
II(A)	0.0905	
Resist	5611	
At 40°C	1515	
PI Status	No Test	No Test
Notes (N)		
Nameplate	Application	Results Summary
	Surge	

18. Winding Resistance

1-2

1-3

2-3

0.730

0.732

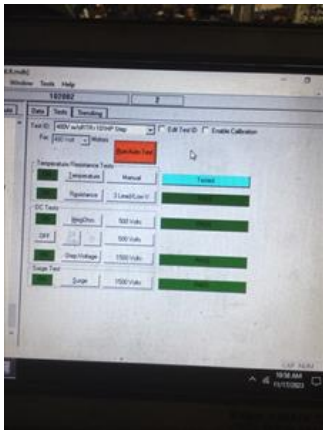
0.732

Test Date	11/17/2023	11/17/2023
Test Time	10:58:18 AM	10:47:26 AM
IR Temp Com.	Thermoplastic	None
Pasist Status	PASS	No Test
Bal L1 (Ohms)		
Bal L2 (Ohms)		
Bal L3 (Ohms)		
L1-L2 (Ohms)	0.487 Corr: 0.4...	
L2-L3 (Ohms)	0.488 Corr: 0.4...	
L3-L1 (Ohms)	0.488 Corr: 0.4...	
Max Delta R %	0.088	
Coil 1 (Ohms)	0.730 Corr: 0.7...	
Coil 2 (Ohms)	0.732 Corr: 0.7...	
Coil 3 (Ohms)	0.732 Corr: 0.7...	
At 40°C	1515	No Test
Nameplate	Application	Results Summary
	Surge	



19. Perform Surge Test

(P) Pass



20. Number of Stator Slots	48
21. Stator Condition	pass
22. Stator Thermistors/Ohms	na
23. Stator Overloads/Ohms	na
<b>Mechanical Inspection</b>	
24. Drive End Bearing Brand	ors
25. Drive End Bearing Number-	6209
26. Drive End Bearing Qty.	1
27. Drive End Bearing Type	(Ball) Ball Bearing
28. Drive End Lubrication Type	(Grease) Grease Lubricated
29. Drive End Bearing Insulation or Grounding Device?	na
30. Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
31. Drive End Bearing Condition	signs of frosting



32. Opposite Drive End Bearing Brand	ors
33. Opposite Drive End Bearing Number-	6209
34. Opposite Drive End Bearing Qty.	1
35. Opposite Drive End Bearing Type	(Ball) Ball Bearing
36. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
37. Opposite Drive End Bearing Insulation or Grounding Device?	na
38. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring

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40. Drive End Seal

Na

41. Opposite Drive End Seal

Na

**Rotor Inspection**

42. Rotor Type/Material

(Squirrel Aluminum) Squirrel  
Cage Aluminum Die Cast

43. Growler Test

(Pass) Pass

44. Number of Rotor Bars

44

45. Rotor Condition

pass

46. List the Parts needed for the Repair Below

6209 x2

Aegis ring is recommended

47. Signature of Technician that Disassembled Motor

Cw

**Mechanical Fits- Rotor**

48. Shaft Runout

0.003 inches

49. Rotor Runout

Drive End Bearing Fit

Rotor Body

Opposite Drive End Bearing

Na

50. Coupling Fit Closest to Bearing Housing

0 Degrees

90 Degrees

120 Degrees

Na

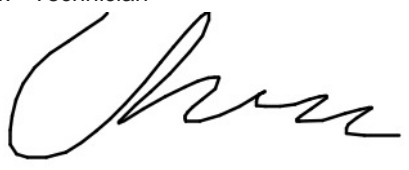
51. Coupling Fit Closest to the end of the Shaft

0 Degrees

60 Degrees

120 Degrees

Na

52. Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.7719	1.772	1.7719	
53. Drive End Bearing Shaft Fit Condition			(P) Pass
54. Opposite Drive End Bearing Shaft Fit			
0 Degrees	60 Degrees	120 Degrees	
1.7718	1.7719	1.7718	
55. Opposite Drive End Bearing Shaft Fit Condition			(P) Pass
56. Shaft Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
<div>  Na </div>			
<b>Mechanical Fits- Bearing Housings</b>			
57. Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
3.3469	3.3469	3.3468	
58. Drive End - Endbell Bearing Fit Condition			(P) Pass
59. Opposite Drive End - Endbell Bearing Fit			
0 Degrees	60 Degrees	120 Degrees	
3.3471	3.3472	3.3471	
60. Opposite Drive End - Endbell Bearing Fit Condition			(P) Pass
61. Bearing Cap Condition			
Drive End Bearing Cap	Opposite Drive End Bearing Cap		
<div>  Na </div>			
62. End Bell Air Seal Fits			
Drive End Air Seal	Opposite Drive End Air Seal		
<div>  Na </div>			
63. List Machine Work Needed Below			
Na			
64. Technician			Cw
			
<b>Dynamic Balance Report</b>			
65. Rotor Weight and Balance Grade			
Rotor Weight	Balance Grade		
<div>  Na </div>			

## 66. Initial Balance Readings

Drive End

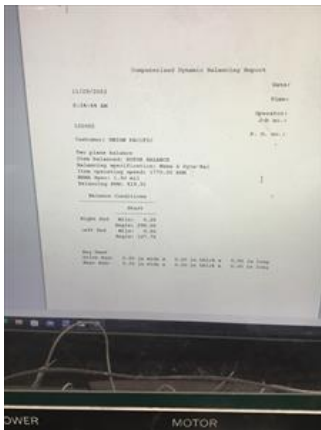
Opposite Drive End



## 67. Final Balance Readings

Drive End

Opposite Drive End



## 68. Technician

Cw

## Rewind

## 69. Core Test Results - Watts loss per Pound

Pre-Burnout

Post Burnout

## 70. Core Hot Spot Test

Pre-Burnout

Post-Burnout

## 71. Post Rewind Electrical Test- Insulation Resistance

## 72. Post Rewind Polarization Index

73. Post Rewind Winding Resistance		
1-2	1-3	2-3
74. Post Rewind Surge Test		
75. Post Rewind Hi-Pot		
76. Technician		
<b>Root Cause of Failure</b>		
77. Failure locations		
<i>Bearings and power cord</i>		
78. Root cause of failure		
<i>Frosting and dry rot</i>		
<b>Mechanical Fits- Rotor - Post Repair</b>		
79. Shaft Runout Post Repair		
80. Rotor Runout Post Repair		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
81. Coupling Fit Closest to Bearing Housing Post Repair		
0 Degrees	90 Degrees	120 Degrees
82. Coupling Fit Closest to the end of the Shaft Post Repair		
0 Degrees	60 Degrees	120 Degrees
83. Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
84. Opposite Drive End Bearing Shaft Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
85. Shaft Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
86. Shaft Repair Sign-off		
<b>Mechanical Fits- Bearing Housings - Post Repair</b>		
87. Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
88. Opposite Drive End - Endbell Bearing Fit Post Repair		
0 Degrees	60 Degrees	120 Degrees
89. Bearing Cap Condition Post Repair		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
90. End Bell Air Seal Fits Post Repair		
Drive End Air Seal	Opposite Drive End Air Seal	
91. End Bell Repair Sign-off		
<b>Assembly</b>		

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92. QC Check All Parts for Cleanliness Prior to Assembly

Cw

*Cw*

93. Photograph All Major Components prior to assembly

(Complete) Complete



94. Final Insulation Resistance Test

Megohms

Na

95. Assembled Shaft Endplay

inches

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Na		
96. Assembled Shaft Runout		inches
Na		
97. Test Run Voltage		
Volts	Volts	Volts
460	459	461




98. Test Run Amperage		
Amps	Amps	Amps
7.8	7.7	7.8



99. Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
Na		
100. Opposite Drive End Vibration Readings - Inches Per Second		
Horizontal	Vertical	Axial
Na		
101. Ambient Temperature - Fahrenheit		
Na		

102. Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
<div> <div></div> <div>Na</div> </div>		
103. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes
<div> <div></div> <div>Na</div> </div>		
104. Document Final Condition with Pictures after paint		



105. Final Pics and QC Review	Cw
<div>  </div> <div> <div></div> <div>Co sign: DM</div> </div>	





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13. **FORCE MAJEURE.** Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earthquake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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