

LR Motor Shop Repairs

Job Number 104574

Prepared for ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK AR 72118

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AC Inspection as Found ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK, AR 72118

FolderID: 104574 FormID: 24369869

AC Inspection - Rev. 2

Location: LR MOTOR SHOP Serial Number: 1PC31041EA663EBO

Description:40 HP SIEMANS

Manufacturer: Siemens Product Number: 1AV3186A Serial Number: 1PC31041EA663EBO HP/kW: 40 (HP) RPM: 3560 (RPM) Voltage: 230 / 460 Current: 100/50 (Amps) Phase: Three
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Phase: Three
"
Hz : 60 (Hz)
Enclosure: TEFC
of Leads: 12
J-box Included: Complete
Coupling/Sheave: None
Bearing RTDs: No
Stator RTDs: No
Repair Stage: Final
Rewind: Yes
Shaft Machined Fit Repairs No Required:
Bearing Housing Machined No Fit Repairs Required:
Heaters: No
Winding Type: Random Wound
Bearing Type: Rolling Element

Priorities Found: 1 - High

18 - Good

Overall Condition

05/20/2025 1. Report Date

2. Nameplate Picture



3. Photos of all six sides of the machine.













	4.	Describe the Overall Condition of the Equipment as Received	
		Dirty and locked up	
	5.	Is this a UL Listed Motor	(No) No
	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No
In	itial	Mechanical/Electrical	
	7.	Does Shaft Turn Freely?	(Y) Yes
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	9.	Does Shaft Have Visible Damage?	(No) No
	10.	Assembled Shaft Runout	Inches
	11.	Assembled Shaft End Play	inches
	12.	Air Gap Variation <10%	
	13.	Lead Condition	(NA) Not Applicable
	13.	Lead Condition Rewind	(NA) Not Applicable
•	,		(NA) Not Applicable 56 Inches
	,	Rewind	
•	14.	Rewind Lead Length	56 Inches
•	14. 15.	Rewind Lead Length Does it have Lugs?, If so what is the Stud Size?	56 Inches (No) No
•	14. 15. 16.	Rewind Lead Length Does it have Lugs?, If so what is the Stud Size? Lead Numbers	56 Inches (No) No T1-T12
•	14. 15. 16.	Rewind Lead Length Does it have Lugs?, If so what is the Stud Size? Lead Numbers Are the Leads insulated with Chico or other material Frame Condition	56 Inches (No) No T1-T12
•	14. 15. 16. 17.	Rewind Lead Length Does it have Lugs?, If so what is the Stud Size? Lead Numbers Are the Leads insulated with Chico or other material Frame Condition	56 Inches (No) No T1-T12 (No) No
•	14. 15. 16. 17. 18.	Lead Length Does it have Lugs?, If so what is the Stud Size? Lead Numbers Are the Leads insulated with Chico or other material Frame Condition Fan Condition Does motor have internal fan?	56 Inches (No) No T1-T12 (No) No

22.	Insulation Resistance/Megger		Megohms
23.	Winding Resistance		
	1-2	1-3	2-3
2 4.	Perform Surge Test		(NA) Not Applicable
-	Rewind		
25.	Number of Stator Slots		36
26.	Stator Condition		
27.	Stator Thermistors/Ohms		
28.	Stator Overloads/Ohms		
Mecha	anical Inspection		
29.	Drive End Bearing Brand		
-	SKF		
30.	Drive End Bearing Number-		NU208
31.	Drive End Bearing Qty.		1
32.	Drive End Bearing Type		(Roller) Roller Bearing
33.	Drive End Lubrication Type		(Oil) Oil Lubricated
34.	Drive End Bearing Insulation or Grou	inding Device?	
35.	Drive End Wavy Washer/Snap-Ring	Other Retention Device?	snap ring
36.	Drive End Bearing Condition		wear



37. Opposite Drive End Bearing Brand	SKF
38. Opposite Drive End Bearing Number-	6210-C4
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?	
43. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring

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44. Opposite Drive End Bearing Condition

Normal wear



Story Ben		
45.	Drive End Seal	seal kit
46.	Opposite Drive End Seal	
Roto	r Inspection	
47.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
48.	Growler Test	(Pass) Pass
49.	Number of Rotor Bars	22
) 50.	Rotor Condition	
-	Needs cleaned	
51.	List the Parts needed for the Repair Below NU208 6210-C4 Seal kit	
52.	Signature of Technician that Disassembled Motor	Cw

	$\overline{}$		
Mech	anical Fits- Rotor		
53.	Shaft Runout		inches
54.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
55.	Coupling Fit Closest to Bearing Housi	ng	
	0 Degrees	90 Degrees	120 Degrees
56.	Coupling Fit Closest to the end of the	Shaft	
	0 Degrees	60 Degrees	120 Degrees
57.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
-	1.5753-1.5754-1.5754		
58.	Drive End Bearing Shaft Fit Condition		(P) Pass

59	. Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
-	1.9690-1.9690-1.9690			
6 0	. Opposite Drive End Bearing Shaft Fit	Condition		(P) Pass
61	. Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	hanical Fits- Bearing Housings			
62	. Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	
-	3.1503-3.1502-3.1503			
63	. Drive End - Endbell Bearing Fit Cond	ition		(P) Pass
64	. Opposite Drive End - Endbell Bearing	; Fit		
	0 Degrees	60 Degrees	120 Degrees	
-	3.5436-3.5436-3.5436			
65	. Opposite Drive End - Endbell Bearing	Fit Condition		(P) Pass
66	. Bearing Cap Condition			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
67	. End Bell Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
68	. List Machine Work Needed Below			
69	. Technician			Cw
	Chri			
-	Co sign: DM			
Root	Cause of Failure			
70	. Failure locations			
	Windings and bearings			
71	. Root cause of failure Overload and wear			
Dyn	amic Balance Report			
-	. Rotor Weight and Balance Grade			
12	Rotor Weight	Balance Grade		
	TOTOL VVOIGILE	Dalarioc Grade		

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73. Initial Balance Readings

Drive End

Opposite Drive End



74. Final Balance Readings

Drive End

Opposite Drive End



75. Technician Cw

Rewind

76. Core Test Results - Watts loss per Pound

Pre-Burnout Post Burnout

77. Core Hot Spot Test

Pre-Burnout Post-Burnout

78. Post Rewind Electrical Test- Insulation Resistance

79. Post Rewind Polarization Index Polarization Index

Megohms

80. Post Rewind Winding Resistance
1-2
1-3
2-3

81. Post Rewind Surge Test
82. Post Rewind Hi-Pot
micro-amps
83. Technician

Assembly

84. QC Check All Parts for Cleanliness Prior to Assembly

 Cw

Mun

85. Photograph All Major Components prior to assembly

(Complete) Complete









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86.	Final Insulation Resistance Test		Megohms
87.	Assembled Shaft Endplay		inches
88.	Assembled Shaft Runout		inches
89.	Test Run Voltage		
	Volts	Volts	Volts



90. Test Run Amperage			
Amps	Amps	Amps	



91.	Drive End Vibration Readings - Inches	s Per Second	
	Horizontal	Vertical	Axial
92.	Opposite Drive End Vibration Reading	s - Inches Per Second	
	Horizontal	Vertical	Axial
93.	Ambient Temperature - Fahrenheit		
94.	Drive End Bearing Temps - Fahrenhei	it	
	5 Minutes	10 Minutes	15 Minutes
95.	Opposite Drive End Bearing Temps -	Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes

96. Document Final Condition with Pictures after paint









97. Final Pics and QC Review

1 in

Cw

Co sign:RRW



FolderID: 104574 FormID: 24746613



AC Random Coil Rewind Report

ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK, AR 72118

LR MOTOR SHOP Winding

vviiluing

Priorities Found: 1 - High

4 - Good

ne		
1.	Job Number	104574
2.	Report Date	06/11/2025
3.	Customer	AIM
tato	r Winding	
4.	Core Length	7.75 "
5.	Core ID	6.25 "
6.	Back Iron Depth	2 "
7.	Slot Depth	0.8125 "
8.	Tooth Width	0.275 "
9.	Number of Vents	
10.	Vent Width	
11.	Before Burnout Core loss	(P) Pass
12.	Flux Before Burnout	
13.	Watts before burnout	Watts
14.	Watts loss per lb. before burnout	1.56 W/lbs.
15.	After Burnout Core Loss	(P) Pass
16.	Flux After burnout	
17.	Watts After Burnout	
18.	Watts loss per lb After Burnout	1.493 W/lbs.
19.	Core Iron Condition	
20.	RTD's	
21.	RTD's Reading	Ohm's
22.	Motor Heaters	
23.	Heater Qty.	
24.	Heater Voltage	Volts
25.	Heater Wattage	Watts
26.	Thermistors	
27.	Number of Poles	2
28.	Slots	36
29.	Number of Coils	18
30.	Coil Weight	
31.	Lead Markings	
	1-12	

22	Crouning	
32.	Grouping	
	6g of 3c	
33.	Multiple Wires	(Y) Yes
34.	Wire Size	
	9#.0417	
35.	Turns per coil	11
36.	Pitch 1 to:	
-	1-14,16,18	
37.	Connection	
	1 delta	
38.	Lead Length	48 "
39.	Lead Size	8
40.	Number of Leads	12
41.	Megger Reading After Rewind	21824 Mohms
42.	Coil Machine Slot	
43.	Coil Machine Tip	
44.	Coil Machine Pitch	
45.	Hi Pot Reading After Rewind	0.02962 Ua
46.	Surge Pattern After Rewind	(P) Pass



47. Service Technician

LE-3.375 OE-3.375

60'. #8EXAR LEAD WIRE 55LBS #16 #17 #18















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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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- 8. <u>WARRANTIES.</u> Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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- 10. <u>SEVERABILITY.</u> The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. **GOVERNING LAW AND JURISDICTION.** Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
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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, earth quake, 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.
- 14. <u>NONWAIVER.</u> No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
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- 16. NO INDIVIDUAL LIABILITY. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.