

# Motor Shop Repairs

## Job Number 98307

Prepared for ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK AR 72118

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## **AC Recondition Repair Report**

**ARKANSAS INDUSTRIAL MACHINERY** 

3804 N. NONA ST NORTH LITTLE ROCK, AR 72118

Priorities Found: 4 - High

13 - Good

General	

98307 1. Job Number

2. Report Date 6/8/2021

**ARKANSAS INDUSTRIAL** Customer **MACHINE** 

#### **Name Plate Information**

Manufacturer **SIEMENS** 







































5.	Model	UC 0102/018093801 IMB5
6.	Serial Number	1LA6 288-4GA91-Z
7.	Horsepower	150
8.	KW	
9.	Volts	460
10.	Amps	180
11.	RPM	1790
12.	Frame	44TSD
13.	Enclosure	TEFC
14.	Cycles	60
15.	Phase	3
16.	Service Factor	1
17.	Motor Mount Position	
Initial	Inspection	
18.	Number of Leads	6
19.	Lead Length	
20.	Lead Size	
<b>2</b> 1.	Lead Condition	(F) Fail
-	No numbers on leads.	
22.	Lead Markings	
23.	Lug Size, Condition, and Type	
24.	Winding RTD's	

25	Winding Rtd's Condition	
	•	
26.	Shaft Run Out	
27.	Does Shaft Turn Freely	
28.	Does Shaft Have Visible Damage	
29.	Bearing Rtd's	
30.	Bearing Rtd's Condition	
31.	Contamination	
	Water	
32.	Frame Condition	(P) Pass
<ul><li>33.</li></ul>	Fan Condition	(P) Pass



34. Broken or missing components

Initial Electric Test

35. Resistance to Ground

36. Winding Resistance 1-2

37. Winding Resistance 2-3

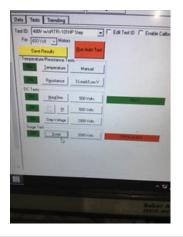
38. Winding Resistance 1-3

39. Resistive Imbalance

40. Hi-Pot

41. Surge Test

(F) Fail



42. Stator Condition	pass
43. Failure Location	leads
Initial Rotor Inspection	

44.	Rotor Type	squirrel cage laminate
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	
<b>48</b> .	Growler Test	(P) Pass
<b>4</b> 9.	Rotor Condition	(P) Pass
Mecha	nical Inspection	
50.	Bearing Manufacture	URB1



51. Bearing DE Size	6216
52. Bearing DE Type	regular ball bearing
53. DE Bearing Qty.	1
54. Bearing ODE Size	6216





55.	Bearing ODE Type	regular ball bearing
56.	ODE Bearing Qty.	1
57.	Insulated Bearing	no
58.	Lubrication Type	grease
59.	Grease Condition	(F) Fail
-	Water contaminated.	
60.	Bearing Retainers	(Y) Yes
61.	Shaft Grounding Device	
62.	DE Seal	
63.	DE Seal Type/Size	

64.	ODE Seal	
65.	ODE Seal Type/Size	
Root	Cause of Failure	
66.	Component Failure	
67.	Cause of Failure	
	Stator housing saturated with water.	
68.	Comments	
69.	Service Technician	Terrence. Holland

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Mach	ne Fit Inspection Report	
	Shaft Run Out	(P) Pass
71.	Initial Shaft Run Out	0.001 "
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(P) Pass
	DE Initial Shaft Bearing Fit Size 1	3.1502 "
75.	DE Initial Shaft Bearing Fit Size 2	3.1501 "
76.	DE Initial Shaft Bearing Fit Size 3	3.1502 "
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	3.15 "
82.	ODE Initial Shaft Bearing Fit Size 2	3.1499 "
83.	ODE Initial Shaft Bearing Fit Size 3	3.1501 "
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	(F) Fail
7	Lip worn in sleeve.	
94.	DE Initial Endbell Fit Size 1	
95.	DE Initial Endbell Fit Size 2	
96.	DE Initial Endbell Fit Size 3	
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	(NA) Not Applicable
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	

103. Finial Endbell Air Seal Fit Size	
104. ODE Endbell Fit	(P) Pass
105. ODE Initial Endbell Fit Size 1	5.5123 "
106. ODE Initial Endbell Fit Size 2	5.5123 "
107. ODE Initial Endbell Fit Size 3	5.5124 "
108. ODE Final Endbell Fit Size 1	5.5125 "



109. ODE Final Endbell Fit Size 2	5.5125 "
110. ODE Final Endbell Fit Size 3	5.5125 "
111. ODE Endbell Fit Insulated	
112. ODE Endbell Air Seal Fit	
113. ODE Initial Endbell Seal Fit Size	
114. ODE Finial Endbell Seal Fit Size	
115. Foot Flatness	(P) Pass
116. Foot Condition	(P) Pass
117. Flange Condition	(P) Pass
118. Service Technician	Terrence. Holland

Len Hellend

### **Balancing Report**

- 119. Balance Type
- 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
- 128. Surge Test
- 129. Hi-Pot
- 130. Winding Resistance 1-2

- 131. Winding Resistance 2-3
- 132. Winding Resistance 1-3
- 133. Test Run Voltage Phase A Volts



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
140.	DE Vertical Vibration Reading
141.	DE Axial Vibration Reading
142.	ODE Horizontal Vibration Reading
143.	ODE Vertical Vibration Reading
144.	ODE Axial Vibration Reading
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



159. Service Technician



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- 1. APPLICABILITY. The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
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