



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

## AC Recondition Repair Report

FolderID: 98471  
FormID: 11165089

**Bryce Corporation (10053-BRC)**  
450 S. Benton  
Searcy, AR 72143

Priorities Found: ● 4 - High ● 6 - Good

### General

1. Job Number	98471
2. Report Date	07/19/2021
3. Customer	10053

### Name Plate Information

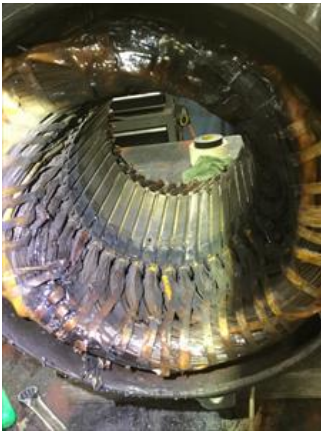


4. Manufacturer	SIEMENS	P5
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








5. Model	ILG4183.2AA61-Z
6. Serial Number	0504/066571708IMB5
7. Horsepower	25.4 HP
8. KW	24.5
9. Volts	460
10. Amps	38.5
11. RPM	
12. Frame	180M
13. Enclosure	TEFC
14. Cycles	60 HZ
15. Phase	3

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16.	Service Factor		
17.	Motor Mount Position		
<b>Initial Inspection</b>			
18.	Number of Leads	6	
19.	Lead Length	9 Inches	
20.	Lead Size		
21.	Lead Condition		
22.	Lead Markings	1,2,3-4,5,6	
23.	Lug Size, Condition, and Type		P67
			
24.	Winding RTD's		
25.	Winding Rtd's Condition		
26.	Shaft Run Out	0.002	
27.	Does Shaft Turn Freely	no	
28.	Does Shaft Have Visible Damage		
29.	Bearing Rtd's		
30.	Bearing Rtd's Condition		
31.	Contamination		
	32. Frame Condition	(P) Pass	P106
			
	33. Fan Condition	(P) Pass	P109

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34. Broken or missing components  
*One lead missing a lug.*

#### 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       | windings |

#### Initial Rotor Inspection

44. Rotor Type

P4



- |                                 |          |
|---------------------------------|----------|
| 45. Air Gap <10% Variation      |          |
| 46. Number of Rotor Bars        |          |
| 47. Number of Broken Rotor Bars | 0        |
| 48. Growler Test                | (P) Pass |



## Mechanical Inspection



50. Bearing Manufacture

P1



51. Bearing DE Size

6210 2Z/C3

P15



52. Bearing DE Type

regular ball bearing

53. DE Bearing Qty.

1

54. Bearing ODE Size

6210 2Z/C3

55. Bearing ODE Type

regular ball bearing



57. Insulated Bearing	no
58. Lubrication Type	grease
59. Grease Condition	(F) Fail
Dirty	
60. Bearing Retainers	(NA) Not Applicable
61. Shaft Grounding Device	(NA) Not Applicable
62. DE Seal	
63. DE Seal Type/Size	
64. ODE Seal	
65. ODE Seal Type/Size	

#### Root Cause of Failure

66. Component Failure	D.E. bearing cage.
67. Cause of Failure	<i>D.E. Bearing cage failed caused by poor lubrication and shrapnel took out the windings.</i>
68. Comments	<i>D.E. bearing cage failure caused shrapnel to impact the windings.</i>
69. Service Technician	Terrence. Holland

*Terrence Holland*

#### Machine Fit Inspection Report

70. Shaft Run Out	(P) Pass
71. Initial Shaft Run Out	0.002 "
72. Final Shaft Run Out	
73. DE Bearing Shaft Fit	(F) Fail
Shaft fit oversized and	
74. DE Initial Shaft Bearing Fit Size 1	
75. DE Initial Shaft Bearing Fit Size 2	
76. DE Initial Shaft Bearing Fit Size 3	
77. DE Finial Shaft Bearing Fit Size 1	
78. DE Finial Shaft Bearing Fit Size 2	
79. DE Finial Shaft Bearing Fit Size 3	

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80.	ODE Bearing Shaft Fit	(P) Pass
81.	ODE Initial Shaft Bearing Fit Size 1	1.9693 "
82.	ODE Initial Shaft Bearing Fit Size 2	1.9691 "
83.	ODE Initial Shaft Bearing Fit Size 3	1.9692 "
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
	<i>Sleeve became dislodged</i>	
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	
101.	DE Endbell Air Seal Fit	
102.	Initial Endbell Air Seal Fit Size	
103.	Finial Endbell Air Seal Fit Size	
104.	ODE Endbell Fit	
105.	ODE Initial Endbell Fit Size 1	
106.	ODE Initial Endbell Fit Size 2	
107.	ODE Initial Endbell Fit Size 3	
108.	ODE Final Endbell Fit Size 1	
109.	ODE Final Endbell Fit Size 2	
110.	ODE Final Endbell Fit Size 3	
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	
116.	Foot Condition	
117.	Flange Condition	
118.	Service Technician	
<b>Balancing Report</b>		
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	

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126. Service Technician
<b>Assembly and Final Test</b>
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
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
159. Service Technician