



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

AC Recondition Repair Report

FolderID: 98327
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Bryce Corporation (10053-BRC)
450 S. Benton
Searcy, AR 72143

Priorities Found: ● 2 - High ● 16 - Good

General

1. Job Number	98327
2. Report Date	06/11/2021
3. Customer	BRYCE

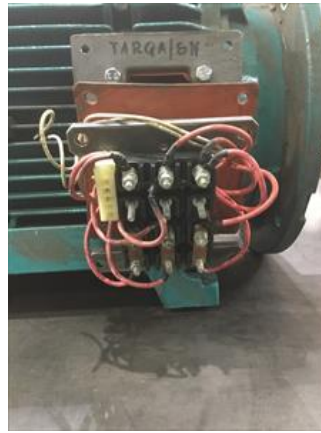
Name Plate Information



4. Manufacturer	BRROKS CROMPTON	P5
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5. Model	TYPE: WD-UDF200LNX2
6. Serial Number	LK 711528 BC2M050-4
7. Horsepower	50
8. KW	
9. Volts	460
10. Amps	57
11. RPM	3530
12. Frame	200L
13. Enclosure	TEFC
14. Cycles	60

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15. Phase	3	
16. Service Factor	1.2	
17. Motor Mount Position		
Initial Inspection		
18. Number of Leads	9	P13
		
19. Lead Length	12 Inches	
20. Lead Size		
● 21. Lead Condition	(P) Pass	
22. Lead Markings	T1-T12	
23. Lug Size, Condition, and Type		
● 24. Winding RTD's	(Y) Yes	
 <i>Thermistors ohm @ 253.4</i>		
25. Winding Rtd's Condition		
26. Shaft Run Out	0.001	
27. Does Shaft Turn Freely	no	
28. Does Shaft Have Visible Damage	no	
29. Bearing Rtd's		
30. Bearing Rtd's Condition		
31. Contamination	<i>Grease contaminated with dirt</i>	
● 32. Frame Condition	(P) Pass	P106
 		
● 33. Fan Condition	(P) Pass	P109

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34. Broken or missing components

Initial Electric Test

35. Resistance to Ground	Mohm
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	

Initial Rotor Inspection



44. Rotor Type squirrel cage laminate

P4



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

Mechanical Inspection



50. Bearing Manufacture FAG

51. Bearing DE Size

6312

P15



52. Bearing DE Type

regular ball bearing

53. DE Bearing Qty.

1

54. Bearing ODE Size

6312

P43



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

☐ Dirty


☒ 60. Bearing Retainers

(Y) Yes

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61.	Shaft Grounding Device	(NA) Not Applicable
62.	DE Seal	(Y) Yes
63.	DE Seal Type/Size	60*80*8
64.	ODE Seal	(Y) Yes
65.	ODE Seal Type/Size	60*80*8
Root Cause of Failure		
66.	Component Failure	D.E. bearing
67.	Cause of Failure	<i>D.E. Bearing cage failure from metal fatigue.</i>
68.	Comments	<i>Windings show bad on both testers.</i>
69.	Service Technician	Terrence. Holland
		
Machine Fit Inspection Report		
70.	Shaft Run Out	(P) Pass
71.	Initial Shaft Run Out	0.001 "
72.	Final Shaft Run Out	
73.	DE Bearing Shaft Fit	(P) Pass
74.	DE Initial Shaft Bearing Fit Size 1	2.3625 "
75.	DE Initial Shaft Bearing Fit Size 2	2.3624 "
76.	DE Initial Shaft Bearing Fit Size 3	2.3634 "
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	2.3623 "
82.	ODE Initial Shaft Bearing Fit Size 2	2.3624 "
83.	ODE Initial Shaft Bearing Fit Size 3	2.3624 "
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	(P) Pass
94.	DE Initial Endbell Fit Size 1	5.1191 "
95.	DE Initial Endbell Fit Size 2	5.119 "
96.	DE Initial Endbell Fit Size 3	5.1191 "
97.	DE Final Endbell Fit Size 1	
98.	DE Finial Endbell Fit Size 2	
99.	DE Final Endbell Fit Size 3	

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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	(NA) Not Applicable
● 116.	Foot Condition	(P) Pass
● 117.	Flange Condition	(P) Pass
118.	Service Technician	Terrence. Holland
		

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.	Megger 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

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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