

LR Motor Shop Repairs

Job Number 102711

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

AC Inspection - Rev. 2

Location:

Shop Serial Number: 3GV1211067435003

Description:75KW ABB 3581 RPM

Hi-Speed Job Number:	102711
Manufacturer:	ABB
Product Number:	M: M3AA250SMB-2
Serial Number:	3GV1211067435003
HP/kW:	75 (kW)
RPM:	3581 (RPM)
Frame:	350SMB
Voltage:	460
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	03/27/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 10 - Good

Overall Condition

1. Report Date 04/26/2024

2. Nameplate Picture



3. Photos of all six sides of the machine.



















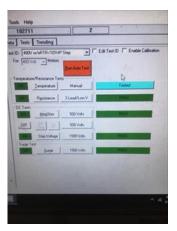














Excessive wear where the gear rides



Water in remaining oil and metal shavings

4. Describe the Overall Condition of the Equipment as Received

		Dirty	
In	Initial Mechanical/Electrical		
	5.	Does Shaft Turn Freely?	(Y) Yes
	6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	7.	Does Shaft Have Visible Damage?	(Yes) Yes
	-	Excessive wear on gear fit	

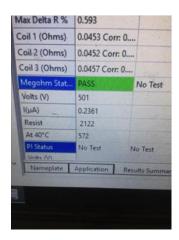


8.	Assembled Shaft Runout	Inches
-	Unable to get accurate measurements due to wear	
9.	Assembled Shaft End Play	inches
-	Na	
10.	Air Gap Variation <10%	
-	Na	
11.	Lead Condition	(P) Pass
12.	Lead Length	100 Inches
13.	Does it have Lugs?, If so what is the Stud Size?	(No) No
-	Has end clamps	
14.	Lead Numbers	1-6
15.	Frame Condition	pass
16.	Fan Condition	(P) Pass
17.	Broken or Missing Components	na

Initial Electrical Inspection

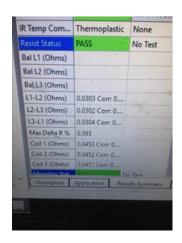
18. Insulation Resistance/Megger

Megohms



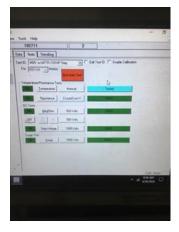
19. Winding Resistance

1-2 1-3 2-3



20. Perform Surge Test

(P) Pass



21. Number of Stator Slots	48
22. Stator Condition	pass
23. Stator Thermistors/Ohms	na

24. Stator Overloads/Ohms

Na

Mechanical Inspection

25. Drive End Bearing Brand



26. Drive End Bearing Number-	NU 213
27. Drive End Bearing Qty.	1
28. Drive End Bearing Type	(Roller) Roller Bearing
29. Drive End Lubrication Type	(Oil) Oil Lubricated
30. Drive End Bearing Insulation or Grounding Device?	na
31. Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
32. Drive End Bearing Condition	
Signs of contamination	



33. Opposite Drive End Bearing Brand



34. Opposite Drive End Bearing Number-	6215
35. Opposite Drive End Bearing Qty.	1
36. Opposite Drive End Bearing Type	(Ball) Ball Bearing
37. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
38. Opposite Drive End Bearing Insulation or Grounding Device?	na
39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
40. Opposite Drive End Bearing Condition	



41. Drive End Seal	41.	Drive	End	Seal
--------------------------------------	-----	-------	-----	------

Seal kit

42. Opposite Drive End Seal

Na

Rotor Inspection

43. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
44. Growler Test	(Pass) Pass	
45. Number of Rotor Bars	40	
46. Rotor Condition	pass	
47 List the Deuts as a ded for the Deuts Deleve		

47. List the Parts needed for the Repair Below

Seal kit NU213 6215

	40.	/// // // I reclinician that bisassen	ibled Motol	GW
V	lecha	anical Fits- Rotor		
	49.	Shaft Runout		inches
	-	To much wear to get accurate measurer	ments	
	50.	Rotor Runout		
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	-	Na		
	51.	Coupling Fit Closest to Bearing Housing	ng	
		0 Degrees	90 Degrees	120 Degrees
	-	Na		
	52.	Coupling Fit Closest to the end of the	Shaft	
		0 Degrees	60 Degrees	120 Degrees
		3	3	3
	7	Na		
	53.	Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		2.5602	2.5602	2.5602
		Drive End Bearing Shaft Fit Condition		(P) Pass
	55.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		2.9534	2.9533	2.9534
	56.	11 0	Condition	(P) Pass
	57.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
		Na		
IV	,	anical Fits- Bearing Housings		
		Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
		4.7253	4.7253	4.7254
	59.	Drive End - Endbell Bearing Fit Condit	tion	(P) Pass
	60.	Opposite Drive End - Endbell Bearing		()
		0 Degrees	60 Degrees	120 Degrees
		5.119	5.1189	5.1188
	61.	Opposite Drive End - Endbell Bearing	Fit Condition	(P) Pass
	62.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	-	Pass		

Cw

48. Signature of Technician that Disassembled Motor

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63.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
-	Na		
64.	List Machine Work Needed Below		
	DE shaft gear fit		
65.	Technician	С	w
	Muri		
Root	Cause of Failure		
66.	Failure locations		
Bearings and shaft gear fit			
67.	Root cause of failure		
	Excessive wear		

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AC Recondition Repair Report

ARKANSAS INDUSTRIAL MACHINERY

3804 N. NONA ST NORTH LITTLE ROCK, AR 72118

Shop

Priorities Found:

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Gene	ral	
1.	Job Number	102711
2.	Report Date	04/25/2024
3.	Customer	AIM
Name	Plate Information	
4.	Manufacturer	ABB
5.	Model	M3AA250SMB-2
6.	Serial Number	33V1211067435003
7.	Horsepower	HP
8.	KW	75 KW
9.	Volts	460 Volts
10.	Amps	111 Amps
11.	RPM	3581 RPM
12.	Frame	
-	Na	
13.	Enclosure	TEFC
14.	Cycles	60 HZ
15.	Phase	3 PH
16.	Service Factor	1.15
17.	Motor Mount Position	Horizontal
Initial	Inspection	
18.	Number of Leads	6
19.	Lead Length	Inches
20.	Lead Size	
21.	Lead Condition	
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	
32.	Frame Condition	

00			
	Fan Condition		
	Broken or missing components		
	Electric Test		
	Resistance to Ground		
36.	Winding Resistance 1-2		
37.	Winding Resistance 2-3		
	Winding Resistance 1-3		
39.	Resistive Imbalance		
	Hi-Pot		
41.	0		
	Stator Condition		
	Failure Location		
	Rotor Inspection		
	Rotor Type		
	Air Gap <10% Variation		
46. 47.	Number of Rotor Bars Number of Broken Rotor Bars		
	Growler Test		
	Rotor Condition		
	anical Inspection		
	Bearing Manufacture		
51.			
52.	Bearing DE Type		
53.	DE Bearing Qty.		
	Bearing ODE Size		
55.	Bearing ODE Type		
56.	ODE Bearing Qty.		
57.	Insulated Bearing		
58.	Lubrication Type		
59.	Grease Condition		
60.	Bearing Retainers		
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		
68.			
	Service Technician		
	Machine Fit Inspection Report		
	Shaft Run Out		
71.	Initial Shaft Run Out		
72.	Final Shaft Run Out		
73.	DE Bearing Shaft Fit		
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
	DE Finial Shaft Bearing Fit Size 2
79.	DE Finial Shaft Bearing Fit Size 3
80.	ODE Bearing Shaft Fit
	ODE Initial Shaft Bearing Fit Size 1
	ODE Initial Shaft Bearing Fit Size 2
	ODE Initial Shaft Bearing Fit Size 3
	ODE Finial Shaft Bearing Fit Size 1
	ODE Finial Shaft Bearing Fit Size 2
	ODE Finial Shaft Bearing Fit Size 3
	DE Air Seal Shaft Fit
	DE Initial Air Seal Shaft Size
89.	
	ODE Air Seal Shaft Fit
	ODE Initial Air Seal Shaft Size
	ODE Final Air Seal Shaft Size
93.	DE Endbell Fit
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
	ODE Endbell Air Seal Fit
	ODE Initial Endbell Seal Fit Size
	ODE Finial Endbell Seal Fit Size
	Foot Flatness
	Foot Condition
	Flange Condition
	Service Technician
	cing Report
	Balance Type Release Operation Cheed
120.	Balance Operating Speed

121	Start Left End		
	Start Right End		
	·		
	Balancing Specification Finish Left End		
	Finish Right End		
	Service Technician		
	Assembly and Final Test		
	Meggar Testing Reading		
	Surge Test		
	Hi-Pot		
	Winding Resistance 1-2		
	Winding Resistance 2-3		
	Winding Resistance 1-3		
	Test Run Voltage Phase A		
	Test Run Amps A		
	Test Run Voltage Phase B		
	Test Run Amps B		
	Test Run Voltage Phase C		
138.	Test Run Amps C		
	DE Horizontal Vibration Reading		
140.	DE Vertical Vibration Reading		
141.	DE Axial Vibration Reading		
142.	ODE Horizontal Vibration Reading		
	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		

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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.
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