



**KEEPING YOUR FACILITY UP TO SPEED**  
— EVERY DAY SINCE 1946 —

LR Motor Shop Repairs

**Job Number 100497**

Prepared for Arkansas Electric Coop. (11681)

17400 highway 365 south  
Little Rock AR 72206

# Table of Contents

AC Recondition As Found - *MOTOR SHOP LR*

AC Recondition - Rev. 2: *F0206185395*

**1.0**

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

## AC Recondition As Found

Arkansas Electric Coop. (11681)

17400 highway 365 south  
Little Rock, AR 72206

FolderID: 100497  
FormID: 14924420

### AC Recondition - Rev. 2

Location: MOTOR SHOP LR

Serial Number: F0206185395

Description: 7.5HP AMETEK BLOWER 3600RPM  
215TCZ  
AMETEK PART 511570

Hi-Speed Job Number: 100497

Manufacturer: Baldor

Product Number: 511570

Spec/ID #: 07H383W361G1

Serial Number: F0206185395

HP/kW: 7.5 (HP)

RPM: 3450 (RPM)

Frame: 215TCZ

Voltage: 230 / 460

Current: 22.2/11.1

Phase: Three

Hz: 60 (Hz)

Service Factor: 1.15

Enclosure: TEFC

J-box Included: Half

Coupling/Sheave: Propeller

Bearing RTDs: No

Stator RTDs: No

Repair Stage: Teardown Inspection

Heaters: No

Winding Type : Random Wound

Bearing Type: Rolling Element

Priorities Found: ● 3 - High ● 5 - Good

### Overall Condition

1. Report Date
2. Nameplate Picture



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Needs 1 filter

3.	Photos of all six sides of the machine.	
4.	Describe the Overall Condition of the Equipment as Received	
5.	Distance from the end of the shaft to the Coupling/Sheave	
<b>Initial Mechanical/Electrical</b>		
6.	Does Shaft Turn Freely?	(Yes) Yes
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	
9.	Assembled Shaft End Play	
10.	Air Gap Variation <10%	
11.	Lead Condition	(P) Pass



12.	Lead Length	12 Inches
13.	Frame Condition	pass

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14. Fan Condition

(F) Fail



15. Broken or Missing Components

### Initial Electrical Inspection

16. Insulation Resistance/Megger

17. Winding Resistance

1-2

1-3

2-3

18. Perform Surge Test

(F) Fail

19. Stator Condition

Rewind



### Mechanical Inspection



20. Drive End Bearing Number-

6309ZZ



*Fatigue*

21. Drive End Bearing Qty.	1
22. Drive End Bearing Type	(Ball) Ball Bearing
23. Drive End Lubrication Type	(Grease) Grease Lubricated
24. Drive End Bearing Insulation or Grounding Device?	na
25. Drive End Wavy Washer/Snap-Ring Other Retention Device?	no
26. Drive End Bearing Condition	surface initiated fatigue
27. Opposite Drive End Bearing Number-	6206ZZ



28. Opposite Drive End Bearing Qty.	1
29. Opposite Drive End Bearing Type	(Ball) Ball Bearing
30. Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
31. Opposite Drive End Bearing Insulation or Grounding Device?	na
32. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	



33.	Opposite Drive End Bearing Condition	pass
34.	Drive End Seal	na
35.	Opposite Drive End Seal	na
Rotor Inspection		
36.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
37.	Growler Test	(Pass) Pass
38.	Number of Rotor Bars	
39.	Rotor Condition	pass
40.	List the Parts needed for the Repair Below	
41.	Signature of Technician that Disassembled Motor	
Mechanical Fits- Rotor		
42.	Shaft Runout	
43.	Rotor Runout	
	Drive End Bearing Fit	Rotor Body                      Opposite Drive End Bearing
44.	Coupling Fit Closest to Bearing Housing	
	0 Degrees	90 Degrees                      120 Degrees
45.	Coupling Fit Closest to the end of the Shaft	
	0 Degrees	60 Degrees                      120 Degrees
46.	Drive End Bearing Shaft Fit	
	0 Degrees	60 Degrees                      120 Degrees
	1.7718	1.7718                      1.7718
47.	Drive End Bearing Shaft Fit Condition	(P) Pass
48.	Opposite Drive End Bearing Shaft Fit	
	0 Degrees	60 Degrees                      120 Degrees
	1.181	1.181                      1.181





50. Shaft Air Seal Fits

Drive End Air Seal

Opposite Drive End Air Seal

**Mechanical Fits- Bearing Housings**

51. Drive End - Endbell Bearing Fit

0 Degrees

60 Degrees

120 Degrees

3.9379

3.9379

3.9379

52. Drive End - Endbell Bearing Fit Condition



53. Opposite Drive End - Endbell Bearing Fit		
0 Degrees	60 Degrees	120 Degrees
2.4404	2.4404	2.4404
.0005 undersized		



54. Opposite Drive End - Endbell Bearing Fit Condition		(F) Fail
.0005 undersized		
55. Bearing Cap Condition		
Drive End Bearing Cap	Opposite Drive End Bearing Cap	
pass	na	



56. End Bell Air Seal Fits		
Drive End Air Seal	Opposite Drive End Air Seal	
57. List Machine Work Needed Below		
Ode end bell housing fit undersized		
58. Technician	RW	
		
Root Cause of Failure		
59. Failure locations		

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60. Root cause of failure

*Turn to turn short*



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3. **SCOPE OF GOODS AND/OR SERVICES.** The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
4. **BILLING AND PAYMENT TERMS.** Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
5. **DELIVERY OF GOODS AND/OR SERVICES.** 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.
6. **DELIVERY SITE AND TIME FOR PERFORMANCE.** Hi-Speed and Buyer agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
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8. **WARRANTIES.** 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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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.
12. **ABANDONED EQUIPMENT.** Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
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