

FolderID: 155798



## **AC Inspection as Found**

Rich's Products (0003227)

5885 Jetway Drive Arlington, TN 38002



## AC Inspection - Rev. 2

Location: Shop

Serial Number: C2301031122

Description:30 HP AC

FormID: 24789613

Hi-Speed Job Number:	155798
Manufacturer:	Baldor
Product Number:	CEWDM4104T
Spec/ID #:	10-0000-1027
Serial Number:	C2301031122
HP/kW:	30 (HP)
RPM:	1760 (RPM)
Frame:	286TC
Voltage:	230 / 460
Current:	76/38 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1
Enclosure:	TEFC
# of Leads:	9
J-box Included:	Half
Coupling/Sheave:	None
Date Received:	06/11/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Teardown Inspection
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 3 - High





12 - Good

**Overall Condition** 

0

Report Date 06/12/2025



3. Photos of all six sides of the machine.







Р3





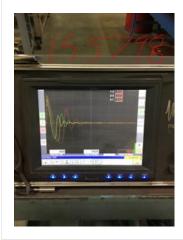
	4.	Describe the Overall Condition of the Equipment as Received		
		Failed electrical tests and requires rewind. No machine work.		
	5.	Is this a UL Listed Motor	(No) No	
	6.	Is the motor water cooled or can be pressure checked before teardown	(No) No	
In	itial I	Mechanical/Electrical		
	7.	Does Shaft Turn Freely?	(Y) Yes	
	8.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
	9.	Does Shaft Have Visible Damage?	(No) No	
	10.	Assembled Shaft Runout	0.0005 Inches	
	11.	Assembled Shaft End Play	0.001 inches	
	12.	Air Gap Variation <10%	No provisions for measurement	
	13.	Lead Condition	(P) Pass	
	14.	Lead Length	12 Inches	
	15.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
	16.	Lead Numbers	1-9	
	17.	Are the Leads insulated with Chico or other material	(No) No	
	18.	Frame Condition	Pass	
	19.	Fan Condition	(P) Pass	
	20.	Does motor have internal fan?	(No) No	
	21.	Broken or Missing Components	None	
In	itial	Electrical Inspection	o	
	22.	Insulation Resistance/Megger	0 Megohms	- P2



1-2 1-3 2-3



24. Perform Surge Test(F) FailP24



25. Number of Stator Slots 48

26. Stator Condition Requires rewind P26





27. Stator Thermistors/Ohms N/A

28. Stator Overloads/Ohms N/A

Mechanical Inspection

29. Drive End Bearing Brand SKF

30. Drive End Bearing Number- 6311 2rs C3

	1	31. Drive End Bearing Qty.	31.
	(Ball) Ball Bearing	32. Drive End Bearing Type	32.
	(Grease) Grease Lubricated	33. Drive End Lubrication Type	33.
	None	34. Drive End Bearing Insulation or Grounding Device?	34.
	None	35. Drive End Wavy Washer/Snap-Ring Other Retention Device?	35.
P36	Normal wear	36. Drive End Bearing Condition	36.



	SKF	7. Opposite Drive End Bearing Brand
	6309 2rs C3	8. Opposite Drive End Bearing Number-
	1	9. Opposite Drive End Bearing Qty.
	(Ball) Ball Bearing	Opposite Drive End Bearing Type
	(Grease) Grease Lubricated	Opposite Drive End Lubrication Type
	None	2. Opposite Drive End Bearing Insulation or Grounding Device?
	Wavy Washer	3. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?
P44	Normal wear	4. Opposite Drive End Bearing Condition



45. Drive End Seal Yes P45

**VA45** 



## 19995

46.	Opposite Drive End Seal	VA45	
Rotor	Inspection		
47.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
48.	Growler Test	(Pass) Pass	
49.	Number of Rotor Bars	38	
50.	Rotor Condition	Pass	P50



51. List the Parts needed for the Repair Below

6311 2rs C3 6309 2rs C3 VA 45 x2 cr19995 seal

52. Signature of Technician that Disassembled Motor

**Brandon Woodard** 



Mecha	inical Fits- Rotor		
53.	Shaft Runout		0.001 inches
54.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	0.001	0.001	0.001

	0 Degrees 4.7251	4.7251	120 Degrees <b>4.7251</b>			
62.	Drive End - Endbell Bearing Fit	60 Degrees	120 Dograps			P67
	nical Fits- Bearing Housings				0	P6:
Maak -	Pass	Passs			-	
	Drive End Air Seal	Opposite Drive End Air Seal				
61.	Shaft Air Seal Fits	Onnesite Drive Ford Air Cool				
60.	Opposite Drive End Bearing Sha	ft Fit Condition		(P) Pass		
7	Tolerance is 1.7718-1.7722			(5) 5		
	1.7722	1.7722	1.7722			
	0 Degrees	60 Degrees	120 Degrees			
59.	Opposite Drive End Bearing Sha	ft Fit				
58.	Drive End Bearing Shaft Fit Con-	dition		(P) Pass		
-	Tolerance is 2.1655-2.1660					
	1.1658	1.1658	1.1658			
	0 Degrees	60 Degrees	120 Degrees			
57.	Drive End Bearing Shaft Fit					
	1.875	1.875	1.875			
	0 Degrees	60 Degrees	120 Degrees			
56.	Coupling Fit Closest to the end of	of the Shaft				
	1.875	1.875	1.875			
55.	Coupling Fit Closest to Bearing I  O Degrees	90 Degrees	120 Degrees			



63. Drive End - Endbell Bearing Fit Condition

(P) Pass

64. Opposite Drive End - Endbell Bearing Fit

P64

0 Degrees 60 Degrees 120 Degrees

3.9377 3.9377 3.9377

Tolerance is 3.9370-3.9379



65.	Opposite Drive End - Endbell &	Bearing Fit Condition	(P) Pass
66.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	Pass	N/A	
67.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	Pass	Pass	
68.	List Machine Work Needed Be	low	
	None		
69.	Technician		Brandon Woodard



## **Root Cause of Failure**

70. Failure locations

71. Root cause of failure