



## AC Inspection as Found

**Peco Foods**  
625 S. Allen Street  
Batesville, AR 72501

FolderID: 102897  
FormID: 20301209



### AC Inspection - Rev. 2

**Location:** Shop  
**Serial Number:** ZHE722C005017  
**Description:** 25HP AERATOR MOTOR EVAL

<b>Hi-Speed Job Number:</b>	102897
<b>Manufacturer:</b>	TECO Westinghouse
<b>Serial Number:</b>	ZHE722C005017
<b>HP/kW:</b>	25 (HP)
<b>RPM:</b>	1170 (RPM)
<b>Frame:</b>	324LP
<b>Voltage:</b>	230 / 460
<b>Current:</b>	60.6/30.3 (Amps)
<b>Phase:</b>	Three
<b>Hz:</b>	60 (Hz)
<b>Service Factor:</b>	1.15
<b>Enclosure:</b>	TEFC
<b># of Leads:</b>	12
<b>J-box Included:</b>	Complete
<b>Coupling/Sheave:</b>	None
<b>Date Received:</b>	05/06/2024
<b>Bearing RTDs:</b>	No
<b>Stator RTDs:</b>	No
<b>Repair Stage:</b>	Teardown Inspection
<b>Rewind:</b>	Yes
<b>Shaft Machined Fit Repairs Required:</b>	No
<b>Bearing Housing Machined Fit Repairs Required:</b>	No
<b>Heaters:</b>	No
<b>Winding Type :</b>	Random Wound
<b>Bearing Type:</b>	Rolling Element

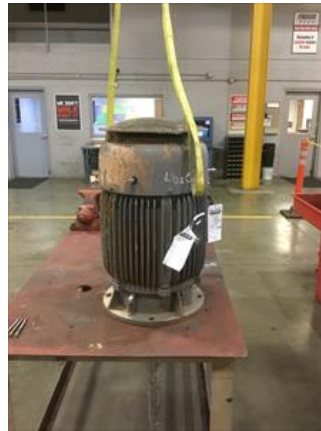
Priorities Found: ● 3 - High ● 8 - Good

### Overall Condition



1. Report Date

05/09/2024





4. Describe the Overall Condition of the Equipment as Received  
*Good condition. 1 phase of windings burnt up and requires rewind.*

#### 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 | P26 |







*From rubbing on bushing.*

- |                             |                               |
|-----------------------------|-------------------------------|
| 8. Assembled Shaft Runout   | 0.003 Inches                  |
| 9. Assembled Shaft End Play | 0.001 inches                  |
| 10. Air Gap Variation <10%  | No Provisions for measurement |

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11.	Lead Condition	(P) Pass		
12.	Lead Length	14 Inches		
13.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes		
	5/16"			
14.	Lead Numbers	1-12		
15.	Frame Condition	Pass		
16.	Fan Condition	(P) Pass		
				
17.	Broken or Missing Components	None		
Initial Electrical Inspection				
18.	Insulation Resistance/Megger	0 Megohms		
19.	Winding Resistance			
	1-2	1-3	2-3	
	0	0	0	
20.	Perform Surge Test	(F) Fail		
				
21.	Number of Stator Slots	54		

22. Stator Condition	Requires rewind	P84
		
23. Stator Thermistors/Ohms	N/A	
24. Stator Overloads/Ohms	N/A	
<b>Mechanical Inspection</b>		
25. Drive End Bearing Brand	SKF	P12
 		
26. Drive End Bearing Number-	7313	
27. Drive End Bearing Qty.	2	
28. Drive End Bearing Type	(Ball) Ball Bearing	
29. Drive End Lubrication Type	(Grease) Grease Lubricated	
30. Drive End Bearing Insulation or Grounding Device?	None	



*Spacer*

32. Drive End Bearing Condition	Normal Wear
33. Opposite Drive End Bearing Brand	NSK
34. Opposite Drive End Bearing Number-	6212 ZC3
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?	None
39. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Wavy Washer

P114



40. Opposite Drive End Bearing Condition	Normal wear
41. Drive End Seal	60 82 12

P120



42. Opposite Drive End Seal

P123





**Rotor Inspection**

43. Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
44. Growler Test	(Pass) Pass
45. Number of Rotor Bars	42
46. Rotor Condition	Pass
47. List the Parts needed for the Repair Below <i>Rewind 6212 C3 7313 x2 60 82 12 seal Va 60</i>	
48. Signature of Technician that Disassembled Motor	Brandon Woodard


**Mechanical Fits- Rotor**





49. Shaft Runout	0.004 inches	
50. Rotor Runout		
Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
0.001	0.001	0.001

51.	Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 Degrees	120 Degrees	
	1.375	1.375	1.375	
52.	Coupling Fit Closest to the end of the Shaft			
	0 Degrees	60 Degrees	120 Degrees	
	1.375	1.375	1.375	
53.	Drive End Bearing Shaft Fit			P79
	0 Degrees	60 Degrees	120 Degrees	
	2.5592	2.5592	2.5592	
	<div><div></div>Tolerance is 2.5590-2.5593</div>			
<div></div>				
54.	Drive End Bearing Shaft Fit Condition			(P) Pass
55.	Opposite Drive End Bearing Shaft Fit			P89
	0 Degrees	60 Degrees	120 Degrees	
	2.3624	2.3624	2.3624	
	<div><div></div>Tolerance is 2.3623-2.3628</div>			
<div></div>				
56.	Opposite Drive End Bearing Shaft Fit Condition			(P) Pass
57.	Shaft Air Seal Fits			
	Drive End Air Seal	Opposite Drive End Air Seal		
	Pass	Pass		

Mechanical Fits- Bearing Housings





58.	Drive End - Endbell Bearing Fit		P2
	0 Degrees	60 Degrees	120 Degrees
	5.512	5.512	5.512
	<div> <div></div> Tolerance is 5.5117-5.5121 </div>		
			
59.	Drive End - Endbell Bearing Fit Condition		(P) Pass
60.	Opposite Drive End - Endbell Bearing Fit		P30
	0 Degrees	60 Degrees	120 Degrees
	4.3316	4.3316	4.3316
	<div> <div></div> Tolerance is 4.3307-4.3316 </div>		
			
61.	Opposite Drive End - Endbell Bearing Fit Condition		(P) Pass
62.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	Pass	Pass	
63.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
	Pass	Pass	
64.	List Machine Work Needed Below		
	None		
65.	Technician		Brandon Woodard



#### Root Cause of Failure

66. Failure locations

67. Root cause of failure