FolderID: 154725 FormID: 23322559



AC Inspection as Found

USG Interiors 850 No Broadway Greenville, MS 38701



AC Inspection - Rev. 2

Location: Millington Motorshop Serial Number: S9027482-001005 AM

Description: 100 HP AC

Hi-Speed Job Number:	154725
Manufacturer:	Baldor
Product Number:	ECP4400T-4
Spec/ID #:	P40G0240R
Serial Number:	S9027482-001005 AM
HP/kW:	100 (HP)
RPM:	1785 (RPM)
Frame:	405T
Voltage:	460
Current:	112 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	01/31/2025
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





Overall Condition

0

Report Date 02/06/2025



3. Photos of all six sides of the machine.







Р3



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Describe the Overall Condition of the Equipment as Received
 Stator windings blown and requires rewind. No machine work required. Extra time involved with tear down due to bearings being stuck in end bells.

In	itial I	Mechanical/Electrical	Ō
	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?	(No) No
	8.	Assembled Shaft Runout	0.003 Inches
	9.	Assembled Shaft End Play	0.002 inches
	10.	Air Gap Variation <10%	No Provisions for Measurement
	11.	Lead Condition	(P) Pass P11



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12.	Lead Length		14 Inches	
13.	Does it have Lugs?, If so what is	the Stud Size?	(No) No	
14.	Lead Numbers		1-3	
15.	Frame Condition		Pass	
16.	Fan Condition		(F) Fail	P16
-	Cracked and broke.			
17.18.			(No) No Yes	
	· · ·		Tes	des.
19.	Electrical Inspection		0 Megohms	0
20.			U Megonins	
20.	1-2	1-3	2-3	
	0	0	0	
2 1.		0	(F) Fail	
22.			(F) Faii	
23.			Requires rewind	P23
24.	Stator Thermistors/Ohms		N/A	

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N/A

0

25. Stator Overloads/Ohms

Mechanical Inspection



27.	Drive End Bearing Number-	6316 C3	
28.	Drive End Bearing Qty.	1	
29.	Drive End Bearing Type	(Ball) Ball Bearing	
30.	Drive End Lubrication Type	(Grease) Grease Lubricated	
31.	Drive End Bearing Insulation or Grounding Device?	None	
32.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	None	
33.	Drive End Bearing Condition	Destroyed to remove from end bell	
34.	Opposite Drive End Bearing Brand	SKF	
35.	Opposite Drive End Bearing Number-	6316 C3	
36.	Opposite Drive End Bearing Qty.	1	
37.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
38.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
39.	Opposite Drive End Bearing Insulation or Grounding Device?	None	
40.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	Wavy Washer	
41.	Opposite Drive End Bearing Condition	normal wear	
42.	Drive End Seal	None	
43.	Opposite Drive End Seal	Nine	
Rotor	Inspection		
44.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
45.	Growler Test	(Pass) Pass	
46.	Number of Rotor Bars	46	
47.	Rotor Condition	Pass	
48.	List the Parts needed for the Repair Below		
	Fan		
49.	Signature of Technician that Disassembled Motor	Brandon Woodard	



Mechanical Fits- Rotor

0

50. Shaft Runout

0.001 inches

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51.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	0.001	0.002	0.002	
52.	Coupling Fit Closest to Bearing H	lousing		P52
52.	Coupling Fit Closest to Bearing F 0 Degrees	lousing 90 Degrees	120 Degrees	P52



53.	Coupling Fit Closest to the end o	f the Shaft		
	0 Degrees	60 Degrees	120 Degrees	
	2.875	2.875	2.875	
54.	Drive End Bearing Shaft Fit			
	0 Dograda	CO Dogrado	120 Dograda	
	0 Degrees	60 Degrees	120 Degrees	

Tolerance is 3.1497-3.1502



55. Drive End Bearing Shaft Fit Condition

(P) Pass

56. Opposite Drive End Bearing Shaft Fit

0 Degrees 60 Degrees 120 Degrees

P56

3.1499 3.1499 3.1499

Tolerance is 3.1497-3.1502



Opposite Drive End Bearing Shaft Fit Condition (P) Pass Shaft Air Seal Fits Drive End Air Seal Opposite Drive End Air Seal **Pass Pass Mechanical Fits- Bearing Housings** 59. Drive End - Endbell Bearing Fit 120 Degrees 0 Degrees 60 Degrees 6.6937 6.6937 6.6937 Tolerance is 6.6929-6.6939 60. Drive End - Endbell Bearing Fit Condition (P) Pass 61. Opposite Drive End - Endbell Bearing Fit 0 Degrees 60 Degrees 120 Degrees 6.6939 6.694 6.6938 Tolerance is 6.6929-6.6939 62. Opposite Drive End - Endbell Bearing Fit Condition (P) Pass 63. Bearing Cap Condition Drive End Bearing Cap Opposite Drive End Bearing Cap **Pass Pass** 64. End Bell Air Seal Fits Drive End Air Seal Opposite Drive End Air Seal Pass **Pass** 65. List Machine Work Needed Below



Root Cause of Failure

None Technician

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Brandon Woodard

67.	Failure locations
68.	Root cause of failure