

AC Inspection as Found Johnson Controls Inc

4301 WEST MARKAM Little Rock, AR 72204 FolderID: 104792 FormID: 24898136

AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number:

Description:75 HP RELIANCE

RUSH

Hi-Speed Job Number:	104792
Manufacturer:	Reliance
Product Number:	P36G3305P
Spec/ID #:	P36G3305-4
HP/kW:	75 (HP)
RPM:	1780 (RPM)
Frame:	365T
Voltage:	460
Current:	85.9 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	3
J-box Included:	None
Coupling/Sheave:	Coupling
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
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: 16 - Good

Overall Condition



. Report Date **06/23/2025**

P44



3. Photos of all six sides of the machine.











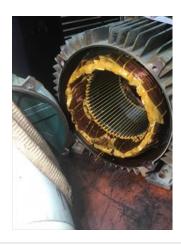












4. Describe the Overall Condition of the Equipment as Received Serviceable

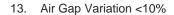
5. Distance from the end of the shaft to the Coupling/Sheave **0 inches** P75



	6.	Is this a UL Listed Motor	(No) No	
	7.	Is the motor water cooled or can be pressure checked before teardown	(No) No	
In	itial I	Mechanical/Electrical		O
	8.	Does Shaft Turn Freely?	(Y) Yes	
	9.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
	10.	Does Shaft Have Visible Damage?	(No) No	P26



11. Assembled Shaft Runout
 12. Assembled Shaft End Play
 0.001 Inches
 0 inches



▶ 14. Lead Condition (P) Pass P70



15.	Lead Length	14 Inches	
16.	Does it have Lugs?, If so what is the Stud Size?	(No) No	
17.	Lead Numbers	1-3	
18.	Are the Leads insulated with Chico or other material	(No) No	
19.	Frame Condition	pass	
20.	Fan Condition	(P) Pass	
21.	Does motor have internal fan?	(No) No	
22.	Broken or Missing Components	connection box	

23.	Insulation Resistance/Megger			Megohms	
-	See below				
24.	Winding Resistance				P16
	1-2	1-3	2-3		



Initial Electrical Inspection







26. Number of Stator Slots 60
27. Stator Condition pass
28. Stator Thermistors/Ohms
29. Stator Overloads/Ohms

Mechanical Inspection

30. Drive End Bearing Brand SKF







32.	Drive End Bearing Qty.	1	
33.	Drive End Bearing Type	(Ball) Ball Bearing	
34.	Drive End Lubrication Type	(Grease) Grease Lubricated	
35.	Drive End Bearing Insulation or Grounding Device?	none	
36.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
37.	Drive End Bearing Condition	fluting on inner and outer races.	P82





38. Opposite Drive End Bearing Brand SKF

39. Opposite Drive End Bearing Number-

P101





40.	Opposite Drive End Bearing Qty.	1	
41.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
42.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
43.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
44.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
45.	Opposite Drive End Bearing Condition	frosting on inner and outer races	
46.	Drive End Seal	dust seal	
47.	Opposite Drive End Seal	dust seal	
Rotor	Inspection		Ō

48. Rotor Type/Material (Squirrel Aluminum) Squirrel P3
Cage Aluminum Die Cast

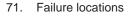


49.	Growler Test	(Pass) Pass	
50.	Number of Rotor Bars	58	
51.	Rotor Condition	good	
52.	List the Parts needed for the Repair Below		
	2) 6313 2Z/C3 bearings. Recondition stator.		

53. Signature of Technician that Disassembled Motor Terrence Holland

54.	Shaft Runout		
	Shall Runout		0.001 inches
55.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
56.	Coupling Fit Closest to Bearing	g Housing	
	0 Degrees	90 Degrees	120 Degrees
57.	Coupling Fit Closest to the end	I of the Shaft	
	0 Degrees	60 Degrees	120 Degrees
58.	Drive End Bearing Shaft Fit		
00.	0 Degrees	60 Degrees	120 Degrees
	2.5596	2.5597	2.5596
59.	Drive End Bearing Shaft Fit Co		(P) Pass
60.	Opposite Drive End Bearing SI		(1)1 400
50.	0 Degrees	60 Degrees	120 Degrees
	2.5594	2.5595	2.5595
61.			(P) Pass
62.	*	art it Condition	(1 / 1 033
02.	Drive End Air Seal	Opposite Drive End Air Seal	
	Dilve Elia Ali Seai	Opposite Drive Life Air Gear	
echa	nical Fits- Bearing Housing	js	
63.	Drive End - Endbell Bearing Fi	t	
	0 Degrees	60 Degrees	120 Degrees
	5.5125	5.5126	5.5124
64.	Drive End - Endbell Bearing Fi	t Condition	(P) Pass
65.	Opposite Drive End - Endbell E	Bearing Fit	
	0 Degrees	60 Degrees	120 Degrees
	5.5123	5.5124	5.5125
66.	Opposite Drive End - Endbell E	Bearing Fit Condition	(P) Pass
67.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	good	good	
68.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
69.	List Machine Work Needed Be	low	
	None		
70.	Technician		Terrence Holland
7	/ //	Ω	
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/	- /		

Root Cause of Failure



Bearings require changing

72. Root cause of failure

Bearings worn

Dynamic Balance Report



73. Rotor Weight and Balance Grade

Rotor Weight

Balance Grade

74. Initial Balance Readings

P11

Drive End

Opposite Drive End

.65

..85



75. Final Balance Readings

P27

Drive End

Opposite Drive End

.18

.22



76. Technician

Terrence Holland

Assembly

0



78. Photograph All Major Components prior to assembly















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79. Final Insulation Resistance Test

Megohms

P31



80. Assembled Shaft Endplay **0 inches**

81. Assembled Shaft Runout 0.001 inches

82. Test Run Voltage P54

Volts Volts Volts





83. Test Run Amperage P65

 Amps
 Amps
 Amps

 28.6
 28.7
 28.2



8 4.	MOTOR RPM		
-	1798		
85.	Drive End Vibration Readings - In	ches Per Second	
	Horizontal	Vertical	Axial
	0.02	0.03	0.02
86.	Opposite Drive End Vibration Rea	dings - Inches Per Second	
	Horizontal	Vertical	Axial
	0.03	0.02	0.02
87.	Ambient Temperature - Fahrenhe	it	
88.	Drive End Bearing Temps - Fahre	nheit	
	5 Minutes	10 Minutes	15 Minutes
89.	Opposite Drive End Bearing Temp	os - Fahrenheit	
	5 Minutes	10 Minutes	15 Minutes
90.	Document Final Condition with Pic	ctures after paint	see belo

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