

LR MOTOR SHOP

R000189690

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

> FolderID: 104101 FormID: 23286207

AC Inspection as Found FEDERAL METAL COMPANY

1200 PIKE AVENUE NORTH LITTLE ROCK, AR 72114

AC Inspection - Rev. 2

Description:2 HP ROSSI

Location: Serial Number:

Hi-Speed Job Number:	104101
Manufacturer:	Rossi
Product Number:	2589026
Spec/ID #:	8087591
Serial Number:	R000189690
HP/kW:	2 (HP)
RPM:	1740 (RPM)
Frame:	90LB
Voltage:	460
Current:	2.9 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	TEFC
# of Leads:	6
J-box Included:	Half
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
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: O 2 - High

High 🛛 🌒 11 - Good

Overall Condition

1. Report Date

02/05/2025

Ο

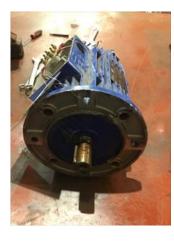
## 2. Nameplate Picture



3. Photos of all six sides of the machine.









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P45

















- Stort			
4.	Describe the Overall Condition of the Equipment as Received Serviceable		
Initial	Mechanical/Electrical		0
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	P26
<ul> <li>8.</li> <li>9.</li> <li>10.</li> </ul>	Assembled Shaft Runout Assembled Shaft End Play Air Gap Variation <10%	0.002 Inches 0 inches	
10.	Lead Condition	(P) Pass	P69
12.	Lead Length	8 Inches	

13.	Does it have Lugs?, If so what is t	he Stud Size?	(Yes) Yes	
14.	Lead Numbers		1-6	
15.	Frame Condition		pass	
<ul><li>16.</li></ul>	Fan Condition		(F) Fail	P115
<ul> <li>17.</li> <li>18.</li> </ul>	Does motor have internal fan? Broken or Missing Components		(No) No fan assembly	
	Electrical Inspection			o
19.	Insulation Resistance/Megger		Megohms	P8
20.	Winding Resistance			
	1-2	1-3	2-3	

	Perform Surge Test     Image: State Slots	(F) Fail	P57
23.	Stator Condition	rewind	
24.	Stator Thermistors/Ohms		
25.	Stator Overloads/Ohms		
Mechar	nical Inspection		0
	Drive End Bearing Brand Drive End Bearing Number-	ISB EMS 6205ZZ	P32
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?	wavy washer	
33.	Drive End Bearing Condition	replace	
34.	Opposite Drive End Bearing Brand	ISB EMS	

## 35. Opposite Drive End Bearing Number-





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?	none	
41.	Opposite Drive End Bearing Condition	replace	
42.	Drive End Seal	25-46-7	P120
φ.	Check good		



43. Opposite Drive End Seal

Check good



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P123

25-46-7

P99

6205ZZ

44.	Inspection Rotor Type/Material		(Squirrel Aluminum) Squirre
	Rotor Type/Material		Cage Aluminum Die Cas
45.	Growler Test		(Pass) Pas
46.	Number of Rotor Bars		28
47.	Rotor Condition		pass
48.	List the Parts needed for the Rep	air Below	
	(2) 6205 2Z bearings Fan assembly Rewind stator		
49.	Signature of Technician that Disa		Terrence Holland
•	Co sign:	,	
lecha	anical Fits- Rotor		
50.	Shaft Runout		0.002 inche
51.	Rotor Runout		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
52.	Coupling Fit Closest to Bearing H	ousing	
	0 Degrees	90 Degrees	120 Degrees
53.	Coupling Fit Closest to the end of	the Shaft	
	0 Degrees	60 Degrees	120 Degrees
54.	Drive End Bearing Shaft Fit		
	0 Degrees	60 Degrees	120 Degrees
	0.9844000000000001	0.9843	0.9844000000000000
55.	Drive End Bearing Shaft Fit Cond	ition	(P) Pas
	Opposite Drive End Bearing Shaf		. ,
56.			
56.		60 Degrees	120 Degrees
56.	0 Degrees 0.984	60 Degrees 0.984	120 Degrees <b>0.9841</b>
56. 57.	0 Degrees 0.984	0.984	0.9841
57.	0 Degrees <b>0.984</b> Opposite Drive End Bearing Shaf	0.984	
	0 Degrees <b>0.984</b> Opposite Drive End Bearing Shaf	0.984	0.9841
57. 58.	0 Degrees 0.984 Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal	0.984 t Fit Condition	0.9841
57. 58.	0 Degrees 0.984 Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal mical Fits- Bearing Housings	0.984 t Fit Condition	0.9841
57. 58.	0 Degrees 0.984 Opposite Drive End Bearing Shaf Shaft Air Seal Fits Drive End Air Seal mical Fits- Bearing Housings Drive End - Endbell Bearing Fit	0.984 t Fit Condition Opposite Drive End Air Seal	0.9841 (P) Pas
57. 58.	0 Degrees 0.984 Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal mical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees	0.984 t Fit Condition Opposite Drive End Air Seal 60 Degrees	0.9841 (P) Pas 120 Degrees
57. 58. <b>/lecha</b> 59.	0 Degrees 0.984 Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal Anical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 2.0472	0.984 t Fit Condition Opposite Drive End Air Seal 60 Degrees 2.0472	0.9841 (P) Pas 120 Degrees 2.0473
57. 58. <b>/lecha</b> 59.	0 Degrees 0.984 Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal mical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 2.0472 Drive End - Endbell Bearing Fit C	0.984 t Fit Condition Opposite Drive End Air Seal 60 Degrees 2.0472 ondition	0.9841 (P) Pas 120 Degrees
57. 58. <b>/lecha</b> 59.	0 Degrees 0.984 Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal <b>Anical Fits- Bearing Housings</b> Drive End - Endbell Bearing Fit 0 Degrees 2.0472 Drive End - Endbell Bearing Fit C Opposite Drive End - Endbell Bearing Fit C	0.984 t Fit Condition Opposite Drive End Air Seal 60 Degrees 2.0472 ondition aring Fit	0.9841 (P) Pas 120 Degrees 2.0473 (P) Pas
57. 58. <b>/lecha</b> 59.	0 Degrees 0.984 Opposite Drive End Bearing Shaft Shaft Air Seal Fits Drive End Air Seal mical Fits- Bearing Housings Drive End - Endbell Bearing Fit 0 Degrees 2.0472 Drive End - Endbell Bearing Fit C	0.984 t Fit Condition Opposite Drive End Air Seal 60 Degrees 2.0472 ondition	0.9841 (P) Pas 120 Degrees 2.0473

63.	•			
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
	n/a	n/a		
64.				
	Drive End Air Seal	Opposite Drive End Air Seal		
65.	List Machine Work Needed Be	low		
	None			
66.	Technician	Hel	Terrence Holland	
-	Co sign:		-	
	Cause of Failure		la l	
67.	Failure locations			
	Windings Fan assembly broken			
68.	Root cause of failure			P18
Dynamic Balance Report				
69.	Rotor Weight and Balance Gra			
69.	Rotor Weight and Balance Gra Rotor Weight	ade Balance Grade		
	Rotor Weight			
69. 70.	Rotor Weight Initial Balance Readings	Balance Grade		
	Rotor Weight			
70.	Rotor Weight Initial Balance Readings Drive End	Balance Grade		
	Rotor Weight Initial Balance Readings Drive End Final Balance Readings	Balance Grade Opposite Drive End		
70.	Rotor Weight Initial Balance Readings Drive End	Balance Grade		
70.	Rotor Weight Initial Balance Readings Drive End Final Balance Readings	Balance Grade Opposite Drive End		

73.	Core Test Results - Watts loss pe	r Pound	
	Pre-Burnout	Post Burnout	
		1 ost Barriott	
74.	Core Hot Spot Test		
	Pre-Burnout	Post-Burnout	
75.	Post Rewind Electrical Test- Insul	ation Resistance	
76.	Post Rewind Polarization Index		
77.	Post Rewind Winding Resistance		
	1-2	1-3	2-3
78.	Post Rewind Surge Test		
79.	Post Rewind Hi-Pot		
80.	Technician		
Assen	nbly		
81.	QC Check All Parts for Cleanlines	ss Prior to Assembly	
82.	Photograph All Major Component	s prior to assembly	
83.	Final Insulation Resistance Test		
84.	Assembled Shaft Endplay		
85.	Assembled Shaft Runout		
86.	Test Run Voltage		
	Volts	Volts	Volts
87.	Test Run Amperage		
	Amps	Amps	Amps
88.	Drive End Vibration Readings - In		
	Horizontal	Vertical	Axial
89.	Opposite Drive End Vibration Rea		
	Horizontal	Vertical	Axial
00	Ambient Temperature - Fabrarda	:4	
90.	Ambient Temperature - Fahrenhe Drive End Bearing Temps - Fahre		
91.	• .		15 Minuton
	5 Minutes	10 Minutes	15 Minutes
92.	Opposite Drive End Bearing Tem	os - Eabranhait	
92.	5 Minutes	10 Minutes	15 Minutes
	5 WILLIULES		10 WINULES
93.	Document Final Condition with Pi	ctures after paint	
93.	Final Pics and QC Review		
J.			