



MILLINGTON, TN

LITTLE ROCK, AR

Job Information

Job #: 142225

Date: April 13, 2020

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Nucor

Motor#: 142225

Name Plate Information

| | | | | | |
|-----------------|-------------|-------------|-----------------------|-----------------|------|
| Manufacturer: | P & H | Enclosure : | Open Drop Proof (ODP) | Horsepower/kW: | 60hp |
| Serial#: | 512454 5/97 | Model#: | EBM111F1E | Service Factor: | |
| Frame: | 405 | Rated RPM: | 1160 | Rated Voltage: | 460 |
| Phase: | 3 | Rated Amps: | 67.00 / 14.60 | Cycles: | |
| Special design: | No | | | | |

WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254



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AC Electrical Inspection

Megs at reassembly: Good

Surge at reassembly: Good

Hi-pot reassembly: Good

Winding Resistance Incoming

Phases A to B

Phases B to C

Phases C to A

Resistive imbalance

Outgoing

Test Run Inspection

Date April 13, 2020

— I have merged this motor and verified that all electrical tests are complete!

Power Supply

| | Phase A | Phase B | Phase C |
|-----------------|---------|---------|---------|
| No Load Voltage | 457.2 | 459.1 | 458.2 |
| No Load Current | 14.8 | 14.2 | 16.8 |

Temperatures: (Degrees Fahrenheit)

Test run ball-bearing motors for 15 minutes.

Test run sleeve bearing motors for 60 minutes.

Temperature rise at the end of test run should be less than 2° every five minutes.

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Test Run Inspection (Continued)

Ambient Temp: 63

| TIME | DE | Degree Change | ODE | Degree Change |
|------|----|---------------|-----|---------------|
|------|----|---------------|-----|---------------|

| | | | | |
|--------|----|---|----|---|
| START: | 65 | 0 | 65 | 0 |
|--------|----|---|----|---|

5 MIN:

10 MIN:

| | | | | |
|---------|----|---|----|---|
| 15 MIN: | 66 | 1 | 67 | 2 |
|---------|----|---|----|---|

20 MIN:

25 MIN:

| | | | | |
|---------|----|---|----|---|
| 30 MIN: | 67 | 1 | 67 | 0 |
|---------|----|---|----|---|

35 MIN:

40 MIN:

45 MIN:

50 MIN:

55 MIN:

60 MIN:

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Test Run Inspection (Continued)

Vibration Data: In./Sec-Peak (Readings should be less than .08 In/Sec Peak)

| | Horizontal | VDE | Axial |
|-----|------------|-------|-------|
| DE | 0.045 | 0.041 | 0.043 |
| ODE | 0.051 | 0.041 | 0.052 |

Magnetic Center Measurements (Only Applies to Sleeve Bearing Motors)

Magnetic Center line distance from shaft shoulder

Magnetic Center line distance from all the way out mark

Magnetic Center line distance from all the way in mark

Total Motor End Float

Additional photos



☐ Yes, the shaft has been isolated for delivery.

Service Tech name: Jesus

Service Tech signature:

