



Test Report Three Phase Induction Motor

**Motor's Serial
Number**
1086244659

WEG México S.A. de C.V.

Quality Control - Medium Voltage Laboratory

Carretera Jorobas-Tula km 3.5, - 54680, Huehuetoca - Estado de México - México

Customer: -
Sales Order: -

1. Motor Identification

TAG: -

Material: 17335060

Frame: 404/5T

Mounting: B3R(D)

Drawing: 10011070055

Enclosure: IP55

Altitude (m): 1000

Duty Cycle: S1

Design: B

Insulation Class: F

Temperature Rise (K): 70

Ambient Temperature (°C): 50

Service Factor: 1.00

| Voltage (V) | Current (A) | Power (HP) | Freq. (Hz) | Speed (rpm) | P.F. | Eff. (%) |
|-------------|-------------|------------|------------|-------------|------|----------|
| 460 | 84.9 | 75 | 60 | 1184 | 0.86 | 94.5 |

2. Performed Tests

| | Routine | Type | Special | Page |
|--------------------------------------|---------|------|---------|------|
| Electric Resistance | X | X | - | 1 |
| Temperature Rise - Nominal Condition | - | X | - | 1 |
| Performance Determination | - | X | - | 1 |
| No Load | X | X | - | 1 |
| Withstand Voltage | X | X | - | 1 |

3. Tests

3.1. Electric Resistance

Resistance (mOhms): 102.4 / 102.5 / 102.3

Ambient Temperature (°C): 18.0

Unbalance (%): 0.21

R_{20°C} (mOhms): 103.2 / 103.4 / 103.1

3.2. Temperature Rise - Nominal Condition - Direct

Voltage (V): 460.0

Frequency (Hz): 60.0

Winding (Resistance Method) (K): 49.8

DE Bearing (K): 34.3

NDE Bearing (K): 12.0

3.3. Performance Determination

Voltage (V): 460.0

Frequency (Hz): 60.00

Nominal T. (N.m): 443.33

| Load (%) | Current (A) | Slip | Speed (rpm) | Efficiency (%) | Cos Ø |
|----------|-------------|--------|-------------|----------------|-------|
| 25 | 35.76 | 0.0032 | 1196.1 | 94.09 | 0.51 |
| 50 | 49.58 | 0.0064 | 1192.3 | 95.52 | 0.73 |
| 75 | 66.51 | 0.0097 | 1188.4 | 95.40 | 0.82 |
| 100 | 85.92 | 0.0135 | 1183.8 | 94.74 | 0.85 |

3.4. No Load

Voltage (V): 461.0

Current (A): 29.69

Power (W): 714.80

Frequency (Hz): 60.0

Speed (rpm): 1200

Direction of Rotation: Clockwise

3.5. Withstand Voltage AC

| Description | Voltage (kV) | Time (s) |
|-------------|--------------|----------|
| Winding | 1.92 | 60 |

* Confidential report. Reproduction of this document shall not be partial and depends on the written approval of the laboratory;

* The results presented in this document refer exclusively to the electric motor subjected to the specified tests and do not extend to any batch; * WEG will keep the original document archived for at least five years.



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4. Report Notes

Smart Code: 0550006IE3

5. Result

Test result approved in accordance with the requirements of IEC 60034-1:2017. Performance calculated according to IEEE 112:2004 - Method B.

Electronic authentication mechanism

This test report can be accessed through the link:

<https://static.weg.net/medias/downloadcenter/hd3/h60/0550006IE3-Energy-Efficiency-Test-Report.pdf>

WEG Motors

Customer

Aginaldo Reus Medeiros
Rodrigues

Test Date: 7/12/2023

Inspector

Form nº 0001 - ed./ver. 1/5 - June/2014

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