



# Test Report

## Three Phase Induction Motor

**Motor's Serial Number**  
1082096226

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:** WEG COLOMBIA S.A.S

**Sales Order:** -

### 1. Motor Identification

TAG: -

Material: 17059441

Enclosure: IP55

Insulation Class: F

Frame: 445/7TS

Altitude (m): 1000

Temperature Rise (K): 80

Mounting: B3R(D)

Duty Cycle: S1

Ambient Temperature (°C): 40

Drawing: 10010430547

Design: B

Service Factor: 1.00

| Voltage (V) | Current (A) | Power (HP) | Freq. (Hz) | Speed (rpm) | P.F. | Eff. (%) |
|-------------|-------------|------------|------------|-------------|------|----------|
| 460         | 219         | 200        | 60         | 3570        | 0.9  | 95.4     |

### 2. Performed Tests

|                                      | Routine | Type | Special | Page |
|--------------------------------------|---------|------|---------|------|
| Electric Resistance                  | X       | X    | -       | 1    |
| Accessories                          | X       | X    | -       | 1    |
| Temperature Rise - Nominal Condition | -       | X    | -       | 1    |
| Performance Determination            | -       | X    | -       | 1    |
| No Load                              | X       | X    | -       | 1    |
| Withstand Voltage                    | X       | X    | -       | 2    |
| Insulation Resistance                | X       | X    | -       | 2    |

### 3. Tests

#### 3.1. Electric Resistance

Resistance (mOhms): 23.05 / 23.02 / 22.95

Ambient Temperature (°C): 27.6

Unbalance (%): 0.44

R<sub>20°C</sub> (mOhms): 22.38 / 22.35 / 22.28

#### 3.2. Accessories

| Description       | Position | Type   | Value (Ohms) |
|-------------------|----------|--------|--------------|
| 1RTb1-1RTb2-1RTb2 | Bearing  | PT-100 | 112.1        |
| 2RTb1-2RTb2-2RTb2 | Bearing  | PT-100 | 112.7        |

#### 3.3. Temperature Rise - Nominal Condition - Direct

Voltage (V): 460.0

Frequency (Hz): 60.0

Winding (Resistance Method) (K): 62.4

DE Bearing (K): 40.9

NDE Bearing (K): 32.4

#### 3.4. Performance Determination

Voltage (V): 460.0

Frequency (Hz): 60.00

Nominal T. (N.m): 400.98

| Load (%) | Current (A) | Slip   | Speed (rpm) | Efficiency (%) | Cos Ø |
|----------|-------------|--------|-------------|----------------|-------|
| 25       | 69.08       | 0.0019 | 3593.1      | 93.31          | 0.73  |
| 50       | 114.08      | 0.0039 | 3585.8      | 95.59          | 0.86  |
| 75       | 163.62      | 0.0061 | 3578.2      | 95.93          | 0.90  |
| 100      | 217.24      | 0.0083 | 3570.0      | 95.74          | 0.91  |

#### 3.5. No Load

Voltage (V): 460.9

Current (A): 41.19

Power (W): 2419.20

Frequency (Hz): 60.0

Speed (rpm): 3600

Direction of Rotation: Clockwise

\* 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.



# Test Report Three Phase Induction Motor

Motor's Serial  
Number  
1082096226

WEG México S.A. de C.V.

Quality Control - Medium Voltage Laboratory

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

## 3.6. Withstand Voltage AC

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

## 3.7. Insulation Resistance

| Description | Voltage (V) | Insulation Res. (Mohms) | Time (s) |
|-------------|-------------|-------------------------|----------|
| Winding     | 500.0       | 9999.0                  | 60       |

Ambient Temperature (°C): 27.9

Humidity (%): 77.0

## 4. Report Notes

Smart Code: 1500002IE3

## 5. Result

Test 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/hb3/h3c/1500002IE3-Energy-Efficiency-Test-Report.pdf>

DocuSigned by:

Aginaldo Reus Medeiros Rodrigues

0EE4525BD002412...

WEG Motors

Aginaldo Reus Medeiros  
Rodrigues

Test Date: 3/31/2023

Form n° 0001 - ed./ver. 1/5 - June/2014

Customer

Inspector

Report issued on 04/28/2023

DocuSigned by:

Vitor Marcon

36442FD7C38C4E5...