



# Test Report

## Three Phase Induction Motor

**Motor's Serial Number**  
1081350993

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 MIDDLE EAST FZE

**Sales Order:** 51998940

### 1. Motor Identification

TAG: -

Material: 17081049

Frame: 315S/M

Mounting: B3T

Drawing: -

Enclosure: IP65

Altitude (m): 1000

Duty Cycle: S1

Design: N

Insulation Class: F

Temperature Rise (K): 70

Ambient Temperature (°C): 50

Service Factor: 1.15

Voltage (V)	Current (A)	Power (kW)	Freq. (Hz)	Speed (rpm)	P.F.	Eff. (%)
400	276	160	60	1790	0.87	96.2

### 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
Insulation Resistance	X	X	-	2

### 3. Tests

#### 3.1. Electric Resistance

Resistance (mOhms): 12.61 / 12.56 / 12.70

Ambient Temperature (°C): 24.5

Unbalance (%): 1.14

R<sub>20°C</sub> (mOhms): 12.39 / 12.34 / 12.48

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

Voltage (V): 400.0

Frequency (Hz): 60.0

Winding (Resistance Method) (K): 48.9

DE Bearing (K): 34.3

NDE Bearing (K): 29.3

#### 3.3. Performance Determination

Voltage (V): 400.0

Frequency (Hz): 60.00

Nominal T. (N.m): 853.04

Load (%)	Current (A)	Slip	Speed (rpm)	Efficiency (%)	Cos Ø
25	108.97	0.0013	1797.6	94.16	0.56
50	156.57	0.0027	1795.1	96.26	0.77
75	213.34	0.0041	1792.5	96.64	0.84
100	276.76	0.0056	1789.8	96.56	0.86

#### 3.4. No Load

Voltage (V): 400.9

Current (A): 85.02

Power (W): 2263.33

Frequency (Hz): 60.0

Speed (rpm): 1800

Direction of Rotation: Clockwise

#### 3.5. Withstand Voltage AC

Description	Voltage (kV)	Time (s)
Winding	1.8	60

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\* 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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### 3.6. Insulation Resistance

Description	Voltage (V)	Insulation Res. (Mohms)	Time (s)
Winding	500.0	22700.0	60

Ambient Temperature (°C): 25.3

Humidity (%): 78.7

### 4. Report Notes

Smart Code: 1600004IE3

### 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/downloadcenter/hc4/h1d/1600004IE3-Energy-Efficiency-Test-Report.pdf>

WEG Motors

Customer

Aginaldo Reus Medeiros  
Rodrigues

Inspector

Test Date: 4/18/2023

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