



Test Report Three Phase Induction Motor

**Motor's Serial
Number**
1084736796

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: 17147533

Frame: L447/9T

Mounting: B3L(E)

Drawing: 10010691816

Enclosure: IP56

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	322	285	60	1786	0.85	96.2

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): 14.76 / 14.76 / 14.88

Ambient Temperature (°C): 20.8

Unbalance (%): 0.77

R_{20°C} (mOhms): 14.72 / 14.72 / 14.83

3.2. Accessories

Description	Position	Type	Value (Ohms)
200-240V/115-166W	Winding	Space Heater	330.5

3.3. Temperature Rise - Nominal Condition - Direct

Voltage (V): 460.0

Frequency (Hz): 60.0

Winding (Resistance Method) (K): 57.7

DE Bearing (K): 33.4

NDE Bearing (K): 31.1

3.4. Performance Determination

Voltage (V): 460.0

Frequency (Hz): 60.00

Nominal T. (N.m): 1136.06

Load (%)	Current (A)	Slip	Speed (rpm)	Efficiency (%)	Cos Ø
25	110.42	0.0018	1796.7	94.10	0.64
50	170.66	0.0040	1792.9	96.01	0.81
75	240.87	0.0061	1788.9	96.22	0.86
100	319.18	0.0085	1784.8	95.95	0.87

3.5. No Load

Voltage (V): 459.6

Current (A): 78.31

Power (W): 2970.00

Frequency (Hz): 60.0

Speed (rpm): 1800

Direction of Rotation: Clockwise

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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. Withstand Voltage AC

Description	Voltage (kV)	Time (s)
Space Heater	1.5	60
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): 21.1

Humidity (%): 79.5

4. Report Notes

Smart Code: 2100004IE3

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/hf4/h26/2100004IE3-Energy-Efficiency-Test-Report.pdf>

WEG Motors

Customer

Aginaldo Reus Medeiros
Rodrigues

Inspector

Test Date: 6/17/2023

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

Report issued on 06/19/2023