



# Test Report Three Phase Induction Motor

**Motor's Serial  
Number**  
1086965224

WEG México S.A. de C.V.

Quality Control - Low Voltage Laboratory

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

**Customer:** -  
**Sales Order:** -

## 1. Motor Identification

TAG: -

Material: 17344848

Frame: 180M/L

Mounting: B3T

Drawing: -

Enclosure: IP56

Altitude (m): 1000

Duty Cycle: S1

Design: N

Insulation Class: F

Temperature Rise (K): 70

Ambient Temperature (°C): 50

Service Factor: 1.00

Voltage (V)	Current (A)	Power (kW)	Freq. (Hz)	Speed (rpm)	P.F.	Eff. (%)
480	30.7	18.5	60	1181	0.78	93

## 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): 401.7 / 400.9 / 400.8

Ambient Temperature (°C): 22.6

Unbalance (%): 0.24

R<sub>20°C</sub> (mOhms): 397.7 / 396.8 / 396.7

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

Voltage (V): 480.0

Frequency (Hz): 60.0

Winding (Resistance Method) (K): 48.8

DE Bearing (K): 35.9

NDE Bearing (K): 20.3

### 3.3. Performance Determination

Voltage (V): 480.0

Frequency (Hz): 60.00

Nominal T. (N.m): 149.52

Load (%)	Current (A)	Slip	Speed (rpm)	Efficiency (%)	Cos Ø
25	17.99	0.0035	1195.8	86.00	0.36
50	21.30	0.0070	1191.7	91.02	0.57
75	25.80	0.0106	1187.2	92.15	0.70
100	31.22	0.0145	1182.6	92.18	0.77

### 3.4. No Load

Voltage (V): 479.9

Current (A): 16.54

Power (W): 689.73

Frequency (Hz): 60.0

Speed (rpm): 1200

Direction of Rotation: Clockwise

### 3.5. Withstand Voltage AC

Description	Voltage (kV)	Time (s)
Winding	1.96	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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## 4. Report Notes

Smart Code:0185006IE3

## 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/he3/h99/0185006IE3-Energy-Efficiency-Test-Report.pdf>

### WEG Motors

Aginaldo Reus Medeiros  
Rodrigues

Test Date: 7/28/2023

### Customer

Inspector

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

Report issued on 08/02/2023