



Test Report Three Phase Induction Motor

**Motor's Serial
Number
1061764281**

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: 131963589

1. Motor Identification

TAG: -	Enclosure: IPW55	Insulation Class: F
Material: 16000341	Altitude (m): 1000	Temperature Rise (K): 80
Frame: 355M/L	Duty Cycle: S1	Ambient Temperature (°C): 40
Mounting: B3E	Design: N	Service Factor: 1.15
Drawing: -		

Voltage (V)	Current (A)	Power (kW)	Freq. (Hz)	Speed (rpm)	P.F.	Eff. (%)
440	451	300	60	3580	0.91	96

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): 6.404 / 6.379 / 6.388 Ambient Temperature (°C): 22.3 Unbalance (%): 0.39
R_{20°C} (mOhms): 6.346 / 6.321 / 6.330

3.2. Temperature Rise - Nominal Condition - Direct

Voltage (V): 440.0	Frequency (Hz): 60.0
Winding (Resistance Method) (K): 57.2	DE Bearing (K): 47.7
	NDE Bearing (K): 31.2

3.3. Performance Determination

Voltage (V): 440.0 Frequency (Hz): 60.00 Nominal T. (N.m): 799.73

Load (%)	Current (A)	Slip	Speed (rpm)	Efficiency (%)	Cos Ø
25	137.49	0.0012	3595.8	93.33	0.77
50	231.96	0.0020	3592.7	95.92	0.88
75	333.75	0.0031	3588.7	96.51	0.92
100	442.26	0.0044	3584.1	96.56	0.92

3.4. No Load

Voltage (V): 440.0	Current (A): 83.96	Power (W): 4999.20
Frequency (Hz): 60.0	Speed (rpm): 3600	Direction of Rotation: Clockwise

3.5. Withstand Voltage AC

Description	Voltage (kV)	Time (s)
Winding	1.88	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	11900.0	60

Ambient Temperature (°C): 20.2

Humidity (%): 64.0

4. Report Notes

Smart Code: 3000002IE3

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/h48/h3d/3000002IE3_Energy_Efficiency_Test_Report.pdf

WEG Motors

Customer

Aginaldo Reus Medeiros
Rodrigues

Inspector

Test Date: 3/21/2023

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