



Test Report

Three Phase Induction Motor

Motor's Serial Number
1067279862

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: 51337136

1. Motor Identification

TAG: -	Enclosure: IP55	Insulation Class: F
Material: 15906261	Altitude (m): 1000	Temperature Rise (K): 70
Frame: 280S/M	Duty Cycle: S1	Ambient Temperature (°C): 50
Mounting: B3T	Design: N	Service Factor: 1.00
Drawing: -		

Voltage (V)	Current (A)	Power (kW)	Freq. (Hz)	Speed (rpm)	P.F.	Eff. (%)
400/690	187/108	110	60	3575	0.89	95.2

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): 20.74 / 20.84 / 20.81 Ambient Temperature (°C): 28.3 Unbalance (%): 0.49
R_{20°C} (mOhms): 20.09 / 20.18 / 20.16

3.2. Temperature Rise - Nominal Condition - Direct

Voltage (V): 400.0 Frequency (Hz): 60.0
Winding (Resistance Method) (K): 51.2 DE Bearing (K): 29.9
NDE Bearing (K): 26.5

3.3. Performance Determination

Voltage (V): 400.0 Frequency (Hz): 60.00 Nominal T. (N.m): 293.65

Load (%)	Current (A)	Slip	Speed (rpm)	Efficiency (%)	Cos Ø
25	69.57	0.0018	3593.6	91.12	0.63
50	104.05	0.0032	3588.5	94.61	0.81
75	143.80	0.0048	3582.6	95.48	0.87
100	187.23	0.0066	3576.2	95.63	0.89

3.4. No Load

Voltage (V): 400.2 Current (A): 49.43 Power (W): 2508.88
Frequency (Hz): 60.0 Speed (rpm): 3600 Direction of Rotation: Clockwise

3.5. Withstand Voltage AC

Description	Voltage (kV)	Time (s)
Winding	2.38	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	37700.0	60

Ambient Temperature (°C): 30.4

Humidity (%): 62.8

4. Report Notes

Smart Code: 1100002IE3

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/hfe/h82/1100002IE3-Energy-Efficiency-Test-Report.pdf>

WEG Motors**Customer**

Aginaldo Reus Medeiros
Rodrigues

Inspector

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