



WEG México S.A. de C.V.

Quality Control - Medium Voltage Laboratory

Test Report**Three Phase Induction Motor**

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

Motor's SerialCustomer: WEG MIDDLE EAST FZE
Sales Order: 1998940**1. Motor Identification**

TAG: -

Material: 17081049

Enclosure: IP65

Insulation Class: F

Frame: 315S/M

Altitude (m): 1000

Temperature Rise (K): 70

Mounting: B3T

Duty Cycle: S1

Ambient Temperature (°C): 50

Drawing: -

Design: N

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
1. Electric Resistance	X	X	-	1
2. Temperature Rise - Nominal Condition	-	X	-	1
3. Performance Determination	-	X	-	1
4. No Load	X	X	-	1
5. Withstand Voltage	X	X	-	1
6. 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

R20°C (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): 60.0

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

Report issued on 04/28/2023

Frequency (Hz): 60.0

Speed (rpm): 1800

Direction of Rotation: Clockwise



Withstand Voltage AC

Description

Winding

Voltage (kV)

1.8

Time (s)

60

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3.6. Insulation Resistance

Number	Description	Voltage (V)	Insulation Res. (Mohms)	Time (s)
1081350993	Winding	500.0	22700.0	60

Voltage (V): 400.0

Frequency (Hz): 60.0

5. Result

Test approved in accordance with the requirements of IEC 60034-1:2017. Performance calculated according to IEEE 112:2004 - Method B.

WEG Motors

Aginaldo Reus Medeiros Rodrigues

Test Date: 4/18/2023

**Customer**

Inspector

