

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13500657

Frame	: 586/7TZ	Locked rotor time	: 52s (cold) 29s (hot)
Output	: 400 HP (300 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 460 V	Ambient temperature	: -20°C to +40°C
Poles	: 6	Altitude	: 1000 m.a.s.l.
Rated current	: 489 A	Protection degree	: IP55
	: 6.5x(Code H)	Cooling method	: IC411 - TEFC
Rated speed	: 1193 rpm	Mounting	: F-1
Rated torque	: 243 kgfm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 77.0 dB(A)
Service factor	: 1.15	Starting method	: Direct On Line
Moment of inertia (J)	: 15.5 kgm ²	Approx. weight ³	: 1866 kg

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.4	95.8	96.2	Max. traction	: 3232 kgf
Power Factor	0.00	0.66	0.75	0.80	Max. compression	: 5098 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-324 C3	6319 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	6000 h	13000 h
Lubricant amount	:	72 g	45 g
Lubricant type	:	Mobil Polyrex EM	

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 3 Revision		
Checked by				
Date	28/05/2026			

Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Space heater information

Voltage: 200 - 240 V

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LOAD PERFORMANCE CURVE

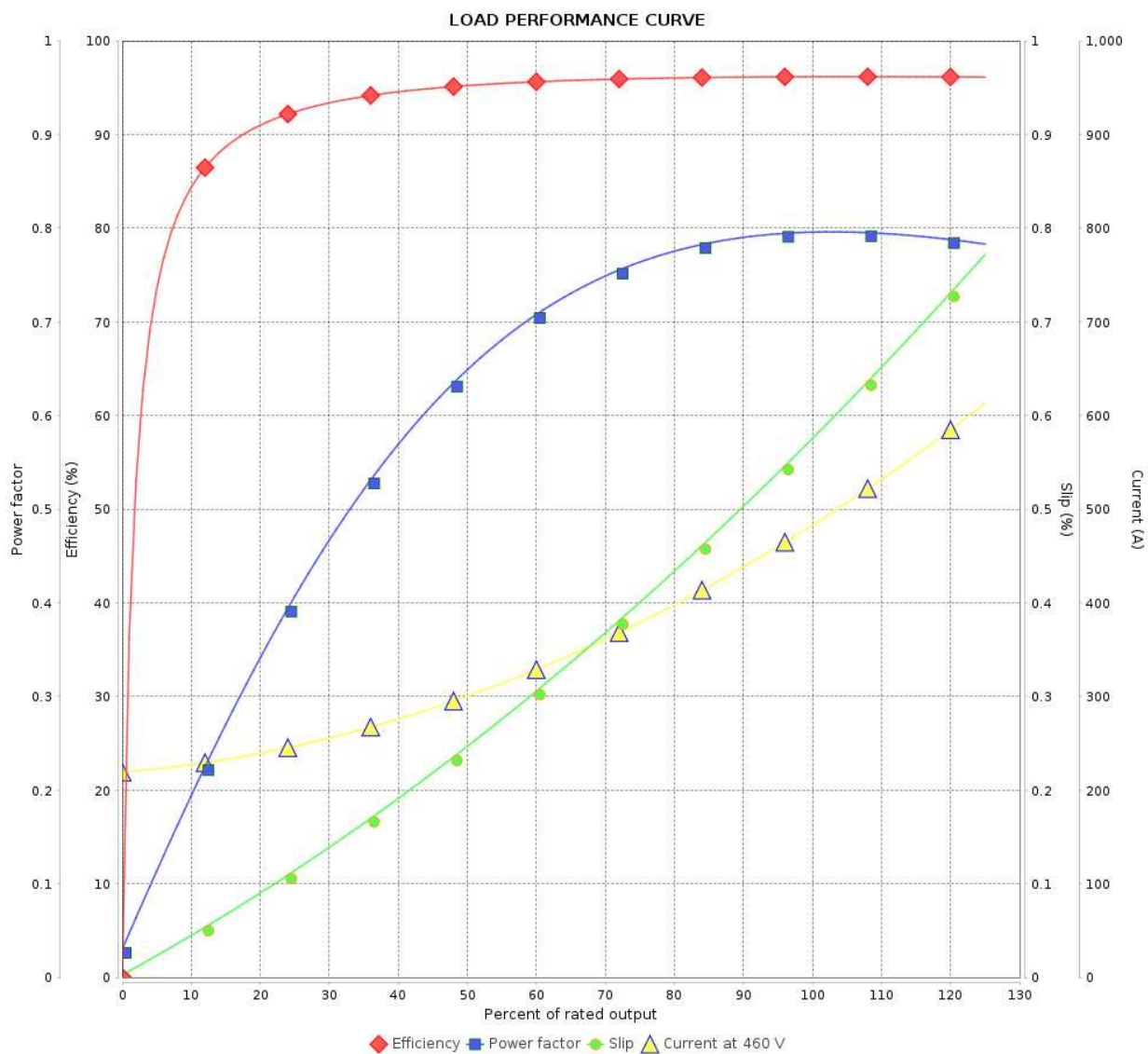
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Three-Phase

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EIXO/SHAFT

PADRÃO/STANDARD

OPCIONAL/OPTIONAL

ESPECIAL/SPECIAL

Dimensões em polegada

Dimensions in inches

X

15.906

17.165

2xNPT 3"

Main terminal box

Grounding for leads 35–120 mm²

28.977

23.189

8.661

26.732

18.575

2.492

14.500

35.236

5.512

1.181

23.000

29.528

Grounding for leads 25–185 mm²

13.346

9.842

11.625

10.000

25.000

22.000

2.559

9.055

28.985

35.740

61.902

29.921

Center Hole

DUNC 7/8"–9 WEG TBG12

±5.900

(Desalinhamento máximo permitido)

(Maximum misalignment allowed)

1.000

4.3750

4.3740

3.812

DE Shaft End

500 HP

04 Poles

60Hz

J

500 HP

06 Poles

60Hz

I

450 HP

04 Poles

60Hz

H

450 HP

06 Poles

60Hz

G

400 HP

04 Poles

60Hz

F

400 HP

06 Poles

60Hz

E

350 HP

04 Poles

60Hz

D

350 HP

06 Poles

60Hz

C

300 HP

04 Poles

60Hz

B

300 HP

06 Poles

60Hz

A

414149741/0

MEC

CERTIFIED

WEG MOTORES

Certified document.

Not subject to changes.

THIS IS AN UPDATED REVISION, THE

PREVIOUS ONE MUST BE DISREGARDED.

Fixar o conduíte no suporte com abraçadeiras.

Fasten the conduit on support with cables ties.

Preencher com graxa 3/4 do volume interno disponível no anel de fixação interno

Fill with grease 3 / 4 of the internal volume available in the internal bearing

Linha do motor: Crusher Duty / Motor purpose: Crusher Duty

Rolamento dianteiro de rolos / DE roller bearing

Tampa dianteira especial / Special DE endshield

Dispositivo de travamento de eixo / Shaft locking device

Rolamento dianteiro de rolos NU-324 / NU-324 DE roller bearing

Proteção térmica para desligamento – termostato 155°C

Thermal protection to switch off – thermostat 155°C

Tampa traseira com mancal eletricamente isolado

NDE endshield with electrically insulated bearing hub

Cor RAL 5009 / Color RAL 5009

Plano de pintura 203A / Painting plan 203A

Forma construtiva NEMA F-1 / Mounting NEMA F-1

Forma construtiva B3D / Mounting B3R(D)

WEG ELECTRIC CORPORATION - WEC

500003081302

PCR 100000335186

DOGE

LEDUARDO

LEDUARDO

11.11.2025

08

500002620216

ALT CONF CLAIM 422229394

CLAUDEMIRR

SCATOLIN

SCATOLIN

24.04.2024

07

ECM

LOC

SUMMARY OF MODIFICATIONS

EXECUTED

CHECKED

RELEASED

DATE

VER

EXECUTED

DVEGINI

CHECKED

NSCHMIDT

RELEASED

NSCHMIDT

REL DT

25.01.2016

WMO

Jaragua do Sul

Product Engineering

THREE PHASE W22 MOTOR - NEMA PREMIUM EFF

FRAME 586/7TZ IP55

10004040391

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08

WEG

1

2

3

4

5

6

A

B

C

D

E

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RELEASED

ZME A3