

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 13987710

Frame	: 449T	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 300 HP (220 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 281 A	Protection degree	: IP55
L. R. Amperes	: 2218 A	Cooling method	: IC411 - TEFC
LRC	: 7.9x(Code J)	Mounting	: F-1
No load current	: 122 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1190 rpm	Noise level ²	: 70.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 183 kgfm	Approx. weight ³	: 1515 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 6.09 kgm ²		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.0	95.4	95.8	Max. traction	: 4044 kgf
Power Factor	0.66	0.77	0.82	Max. compression	: 5559 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-322 C3	6319 C3
Sealing	:	Viton Oil Seal	Viton Seal
Lubrication interval	:	5903 h	11094 h
Lubricant amount	:	60 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	27/10/2024			

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Customer :

Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 3	
Date	27/10/2024				

LOAD PERFORMANCE CURVE

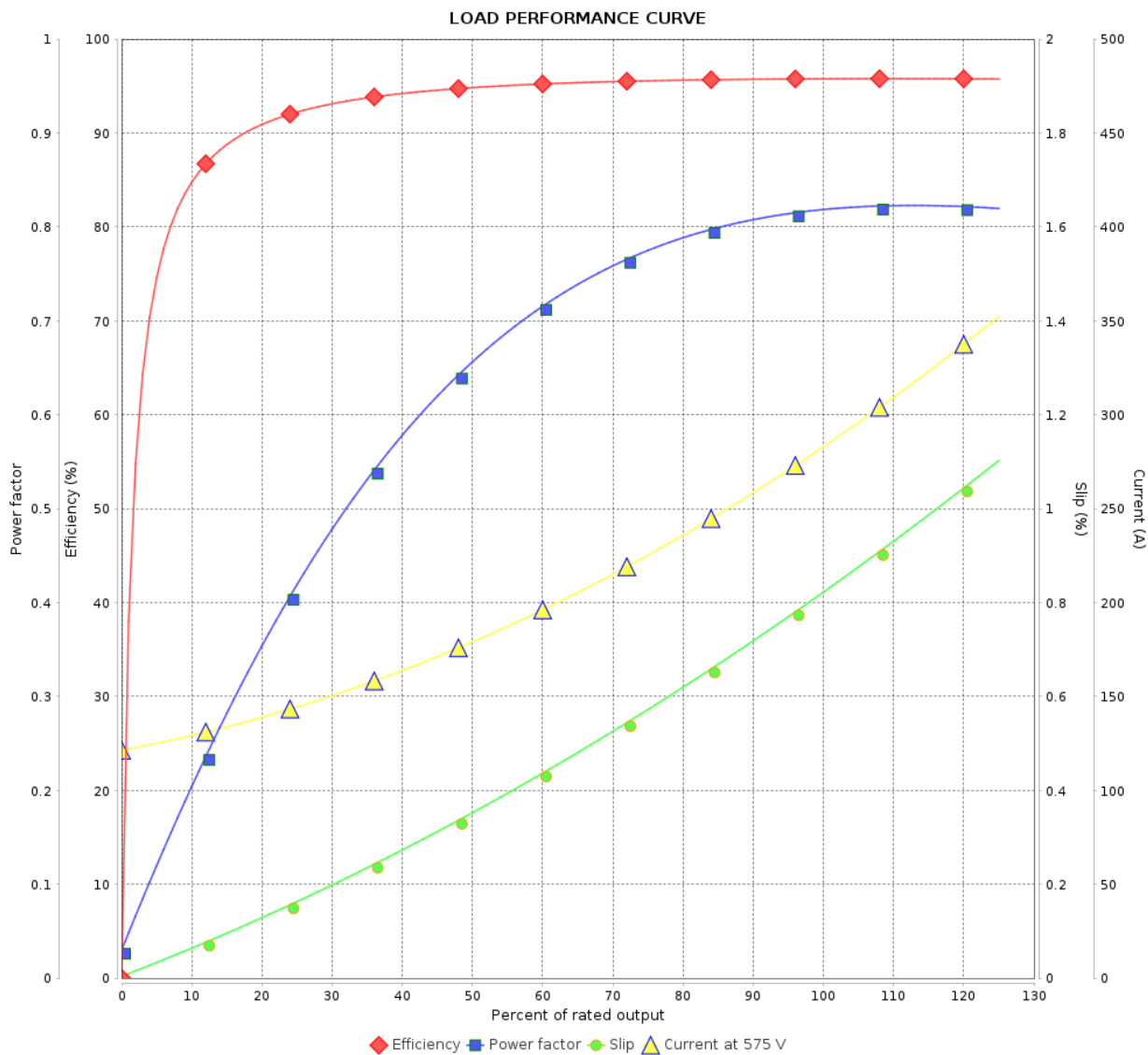
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA
Premium Efficiency Three-Phase

Product code : 13987710



Performance : 575 V 60 Hz 6P

Rated current : 281 A
LRC : 7.9
Rated torque : 183 kgfm
Locked rotor torque : 280 %
Breakdown torque : 300 %
Rated speed : 1190 rpm

Moment of inertia (J) : 6.09 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

Rev.	Changes Summary	Performed	Checked	Date
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EIXO/SHAFT

PADRÃO/STANDARD

OPCIONAL/OPTIONAL

ESPECIAL/SPECIAL

X

Dimensões em polegada

Dimensions in inches

24.016

20.984

11.000

1.630

3.937

0.807

18.000

21.929

2xNPT 3"

Grounding for leads 35-70 mm² / 1-2/0 AWG

0.875

0.875

2.880

3.375

3.375

DE Shaft End

Grounding for leads 35-70 mm² / 1-2/0 AWG

Slinger

Center Hole

DUNC 3/4"-10 WEG TBG12

27.165

23.622

7.104

25.000

7.500

8.500

32.126

54.996

7.087

Rolamento dianteiro de rolos / DE roller bearing

Dispositivo de travamento de eixo / Shaft locking device

Slinger fornecido em avulso / Slinger ring supplied loose

Cor RAL 5009 / Color RAL 5009

Plano de pintura 202P / Painting plan 202P

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

Forma construtiva B3D / Mounting B3R(D)

V.J. PAMENSKY CANADA INC.

500001594952

ALTERADO CONF. CLAIM 415204042

RICLAV

DALTONR

DALTONR

27.05.2019

02

500001427824

REMOVED HIDDEN NOTE CODE 485

ERIC

MENSOR

MENSOR

13.03.2018

01

ECM

LOC

SUMMARY OF MODIFICATIONS

EXECUTED

CHECKED

RELEASED

DATE

VER

EXECUTED

GUSTAVOPT

CHECKED

PIRWUSER

RELEASED

PIRWUSER

REL DT

26.04.2017

WMO

Jaragua do Sul

Product Engineering

THREE-PHASE EXPLOSION PROOF MOTOR

FRAME 449T IP55 TEFC

10004902851

000 | 02

300 HP

06 Poles

60Hz

A

1

2

3

4

5

6

CERTIFIED

WEG MOTORES

Certified document.

Not subject to changes.

THIS IS AN UPDATED REVISION, THE

PREVIOUS ONE MUST BE DISREGARDED.