DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13500648

Frame	: 586/7TZ
Output	: 300 HP (220 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 460 V
Rated current	: 350 A
L. R. Amperes	: 2520 A
LRC	: 7.2x(Code H)
No load current	: 130 A
Rated speed	: 1791 rpm
Slip	: 0.50 %
Rated torque	: 122 kgfm
Locked rotor torque	: 229 %
Breakdown torque	: 260 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 6.80 kgm²
Design	: A

Locked rotor time	: 34s (cold) 19s (hot)
Temperature rise	: 80 K
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: F-1
Rotation¹	: Both (CW and CCW)
Noise level²	: 81.0 dB(A)
Starting method	: Direct On Line
Approx. weight³	: 1397 kg

Output	25%	50%	75%	100%
Efficiency (%)	0.000	95.4	95.8	96.2
Power Factor	0.00	0.70	0.80	0.82

Foundation loads

Max. traction : 1465 kgf

Max. compression : 2862 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.1	2.9	2.3	2.6	1.6	1.2	0.7

		Drive end	Non drive end
Bearing type	:	NU-324 C3	6319 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	3000 h	8000 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				
Checked by			Page	Revision
Date	23/10/2023		1 / 3	

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Thermal protection

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

Space heater information

Voltage: 200 - 240 V

Rev.	Changes Summary	Performed	Checked	Date

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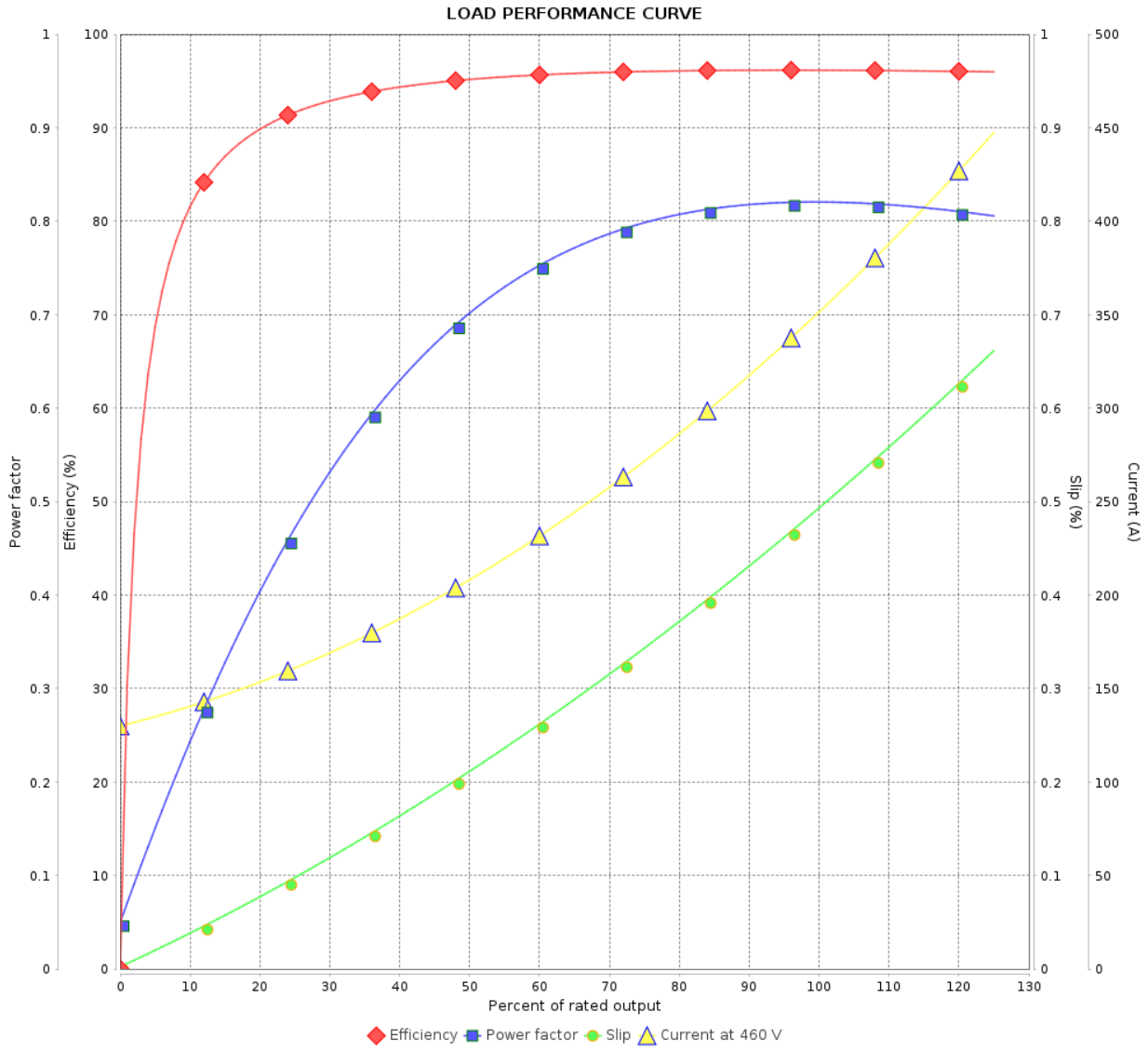
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13500648



Performance	: 460 V 60 Hz 4P		
Rated current	: 350 A	Moment of inertia (J)	: 6.80 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 122 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1791 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/10/2023		3 / 3	

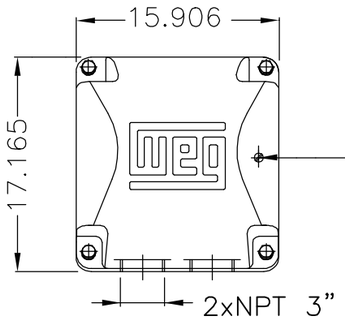
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EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

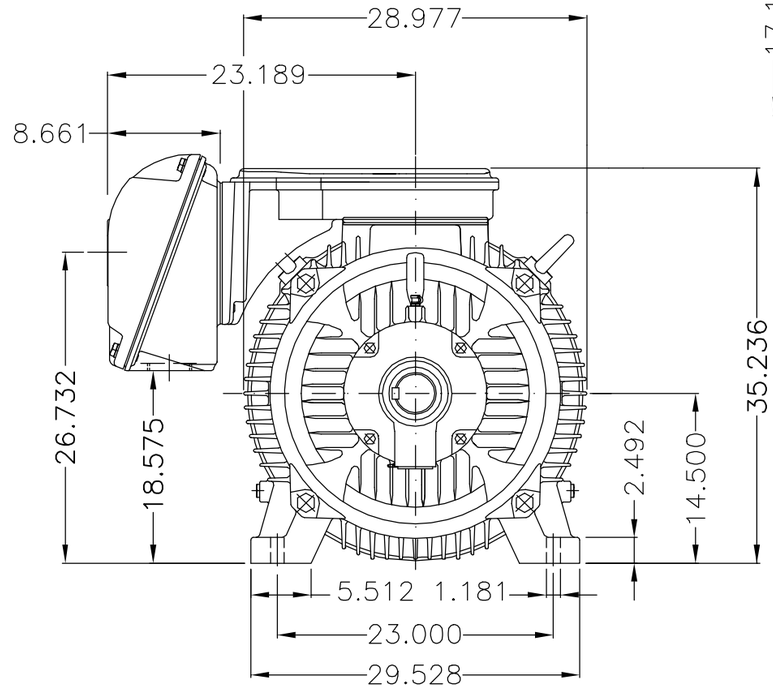
Dimensões em polegada
Dimensions in inches

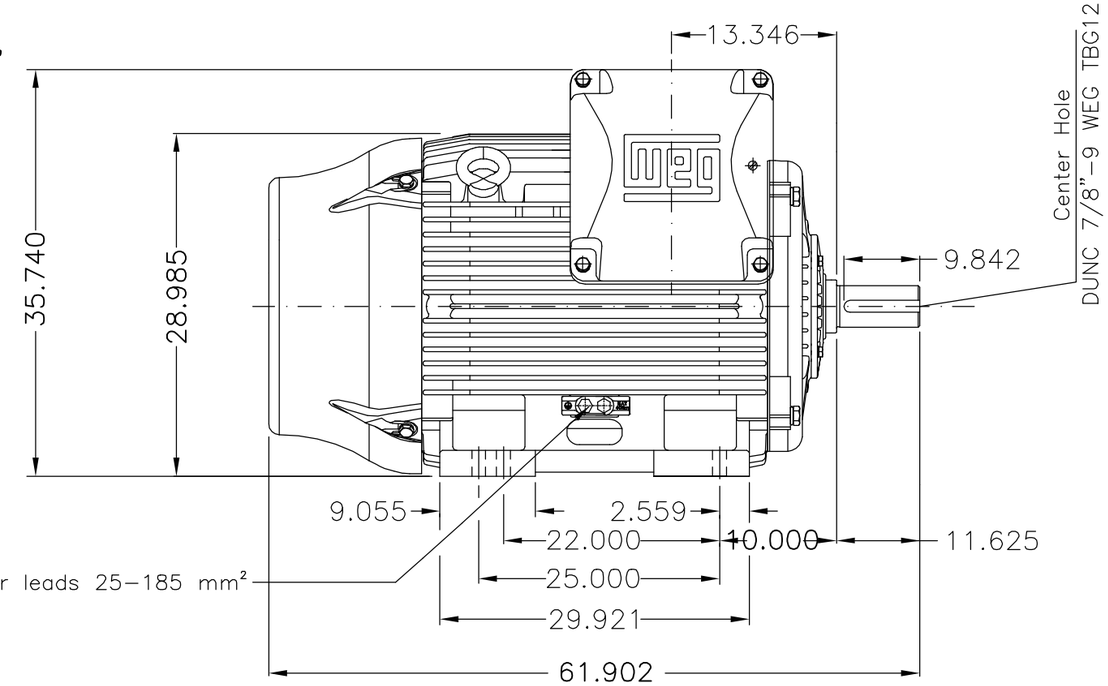
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WEG MOTORES
Certified document.
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THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

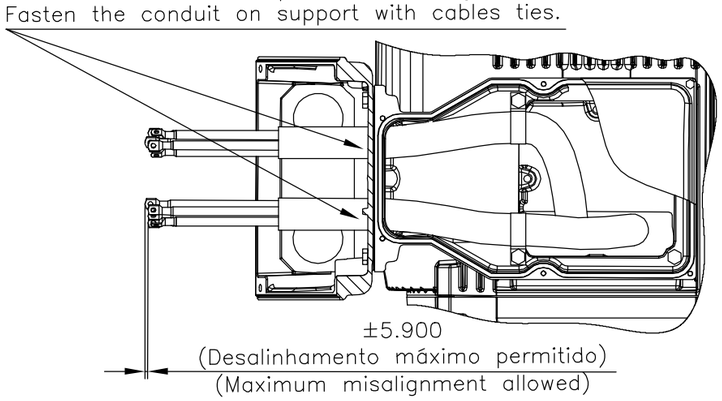


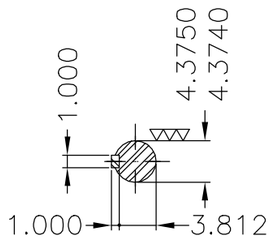
Main terminal box





Fixar o conduíte no suporte com abraçadeiras.
Fasten the conduit on support with cables ties.





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	414149741/0 MEC	A

Rolamento dianteiro de rolos / DE roller bearing
Proteção térmica para desligamento – termostato 155°C Thermal protection to switch off – thermostat 155°C
Dispositivo de travamento de eixo / Shaft locking device
Linha do motor: Crusher Duty / Motor purpose: Crusher Duty
Tampa dianteira especial / Special DE endshield
Rolamento dianteiro de rolos NU–324 / NU–324 DE roller bearing
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

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
500001929025		RETIRADO NOTA - SOL PLACAS	FRANCINES	JACKSONHM	JACKSONHM	30.04.2021	06
500001331189		ADIC.NOTA CONDUITE/ADD NOTE CONDUIT	MENSOR	EANJOS	EANJOS	05.07.2017	05

EXECUTED	DVEGINI
CHECKED	NSCHMIDT
RELEASED	NSCHMIDT
REL DT	25.01.2016

THREE PHASE W22 MOTOR - NEMA PREMIUM EFF
FRAME 586/7TZ IP55

WMO Jaragua do Sul Product Engineering

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SHEET 1 / 1

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