DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13500513

Frame	: 586/7TZ
Output	: 500 HP (370 kW)
Poles	: 6
Frequency	: 60 Hz
Rated voltage	: 460 V
Rated current	: 603 A
L. R. Amperes	: 3618 A
LRC	: 6.0x(Code G)
No load current	: 240 A
Rated speed	: 1192 rpm
Slip	: 0.67 %
Rated torque	: 304 kgfm
Locked rotor torque	: 200 %
Breakdown torque	: 210 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 15.5 kgm²

Locked rotor time	: 45s (cold) 25s (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	: 77.0 dB(A)
Starting method	: Direct On Line
Approx. weight³	: 1997 kg

Output	25%	50%	75%	100%
Efficiency (%)	0.000	95.8	96.2	96.2
Power Factor	0.00	0.66	0.76	0.80

Foundation loads

Max. traction	: 3378 kgf
Max. compression	: 5375 kgf

		Drive end	Non drive end
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

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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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Date	23/10/2023		2 / 3	

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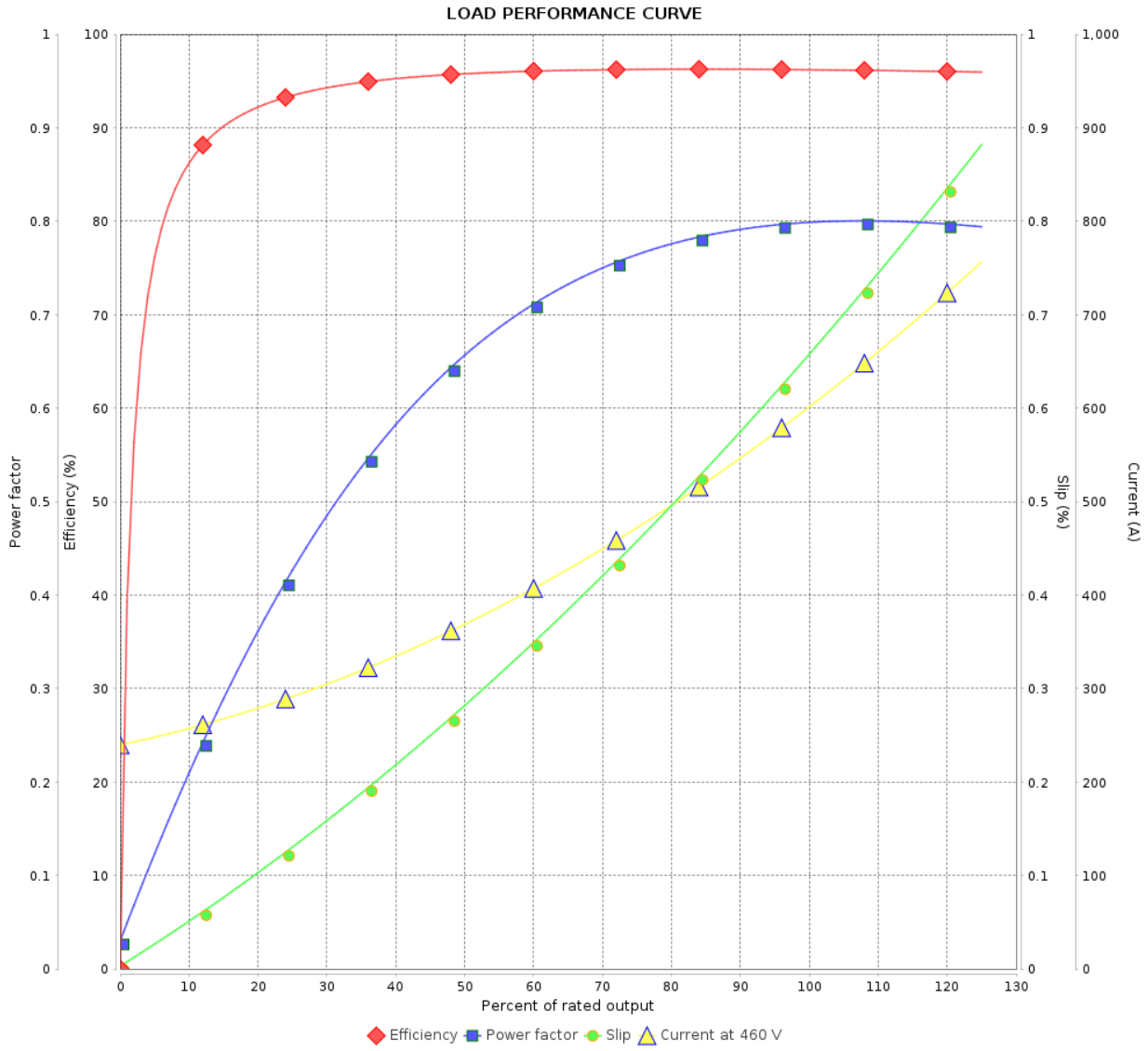
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13500513



Performance	: 460 V 60 Hz 6P		
Rated current	: 603 A	Moment of inertia (J)	: 15.5 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 304 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 1192 rpm		

Rev.	Changes Summary	Performed	Checked	Date

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

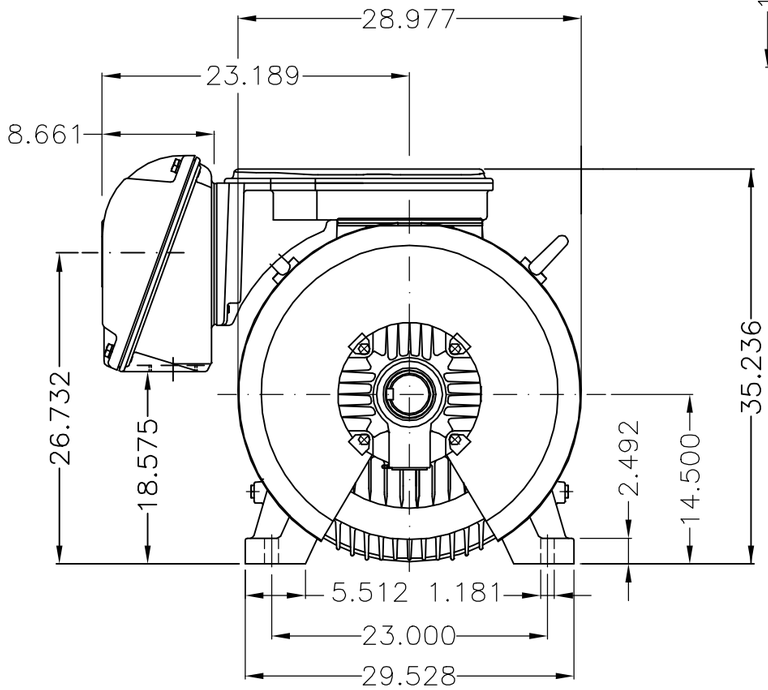
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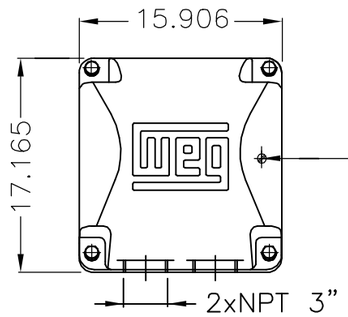
EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

Dimensões em polegada
Dimensions in inches

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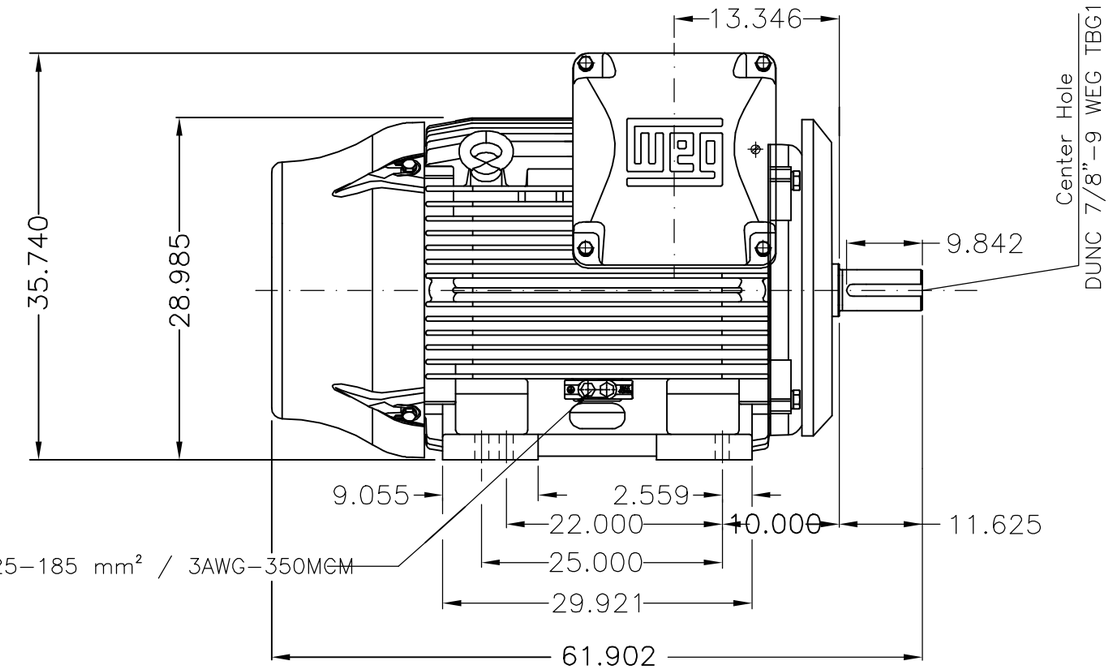
THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.



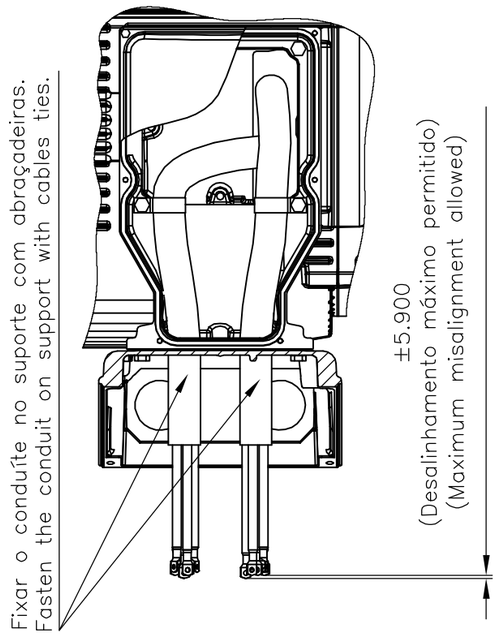


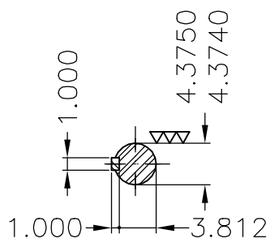
Grounding for leads 35–120 mm² / 1–4/0 AWG

Main terminal box



Grounding for leads 25–185 mm² / 3AWG–350MCM





DE Shaft End

Conduite para cabos no interior do suporte da caixa de ligação Cables conduit inside terminal box support
Tampa dianteira especial / Special DE endshield
Rolamento dianteiro de rolos NU–324 / NU–324 DE roller bearing
Linha do motor: Crusher Duty / Motor purpose: Crusher Duty
Dispositivo de travamento de eixo / Shaft locking device
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
Defletor de ar dianteiro / Drive–End Air Deflector
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
500002368949		REMOVIDA NOTA DE CATEGORIA A	FRANCINES	LEDUARDO	LEDUARDO	05.05.2023	05
500001346215	B2	ADDED DEFLECTOR RETAIL	SAORIN	ERIC	ERIC	10.08.2017	04

EXECUTED	DVEGINI
CHECKED	NSCHMIDT
RELEASED	NSCHMIDT
REL DT	02.05.2017

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

WMO Jaragua do Sul Product Engineering

10004909462
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SHEET 1 / 1

414149741/0 MEC

500 HP 06 Poles 60Hz 414649158/0

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