

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 In Line Extra Thrust High Efficiency Three-Phase Product code : 12196036

Frame	: 447LP	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 250 HP (185 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 215 A	Protection degree	: IP55
L. R. Amperes	: 1720 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code H)	Mounting	: W-6
No load current	: 48.7 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3570 rpm	Noise level ²	: 87.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 50.8 kgfm	Approx. weight ³	: 1078 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.12 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	95.0	95.4	95.8	Max. traction
Power Factor	0.00	0.83	0.89	0.90	Max. compression

	Drive end	Non drive end
Bearing type	: 6314 C3	: 7311BECB
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: 2860 h	: 2572 h
Lubricant amount	: 27 g	: 36 g
Lubricant type	: Isoflex NBU-15	

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		Revision
Checked by		1 / 2		
Date	24/10/2024			

LOAD PERFORMANCE CURVE

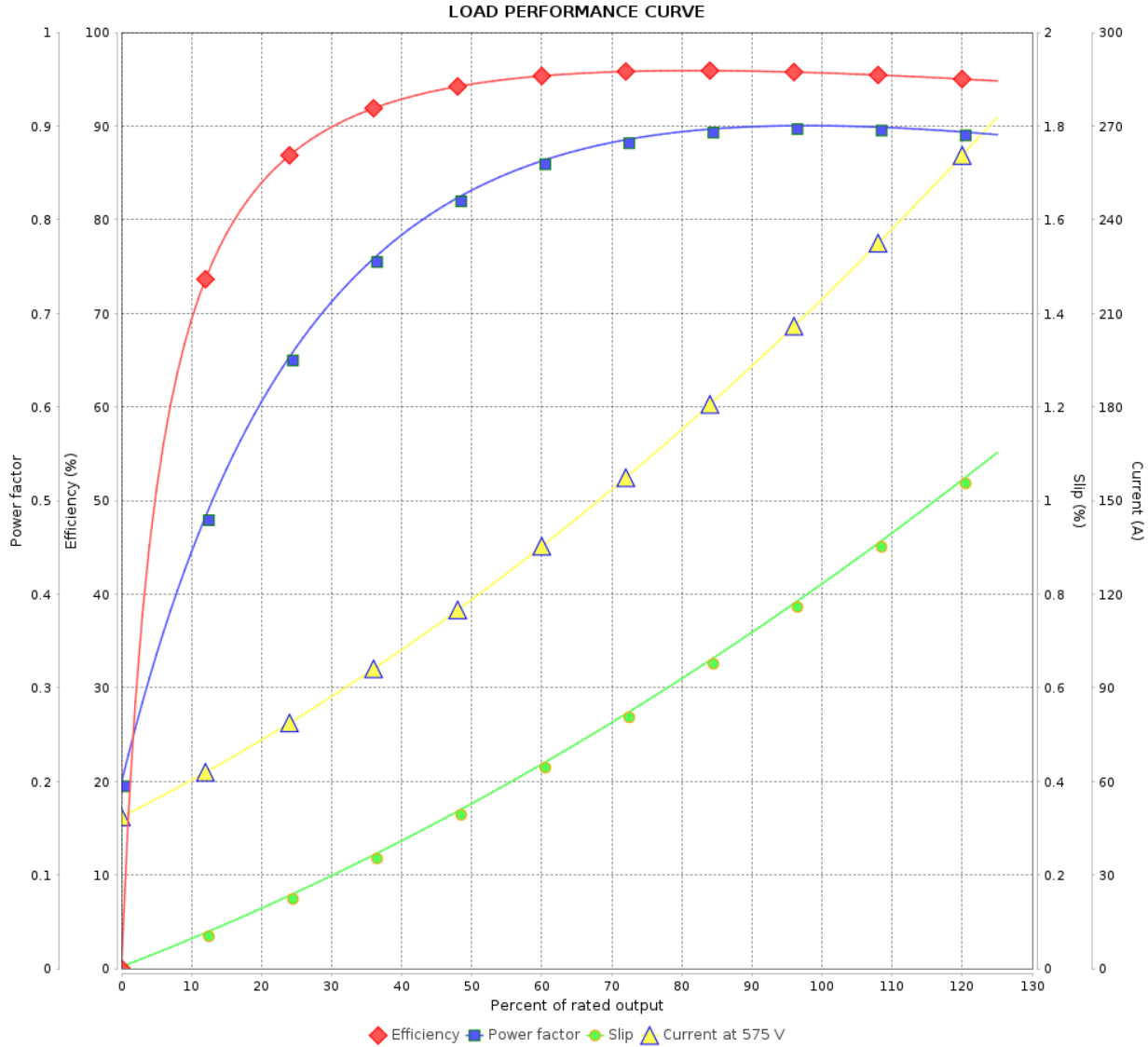
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W21 In Line Extra Thrust High Efficiency Three-Phase

Product code : 12196036



Performance : 575 V 60 Hz 2P

Rated current : 215 A
 LRC : 8.0
 Rated torque : 50.8 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 3570 rpm

Moment of inertia (J) : 2.12 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	24/10/2024			

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EIXO	
PADRÃO	
OPCIONAL	
ESPECIAL	X

Dimensões em polegadas
Dimensions in inches

CERTIFIED WEG MOTORES

Certified document.
Not subject to changes.

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

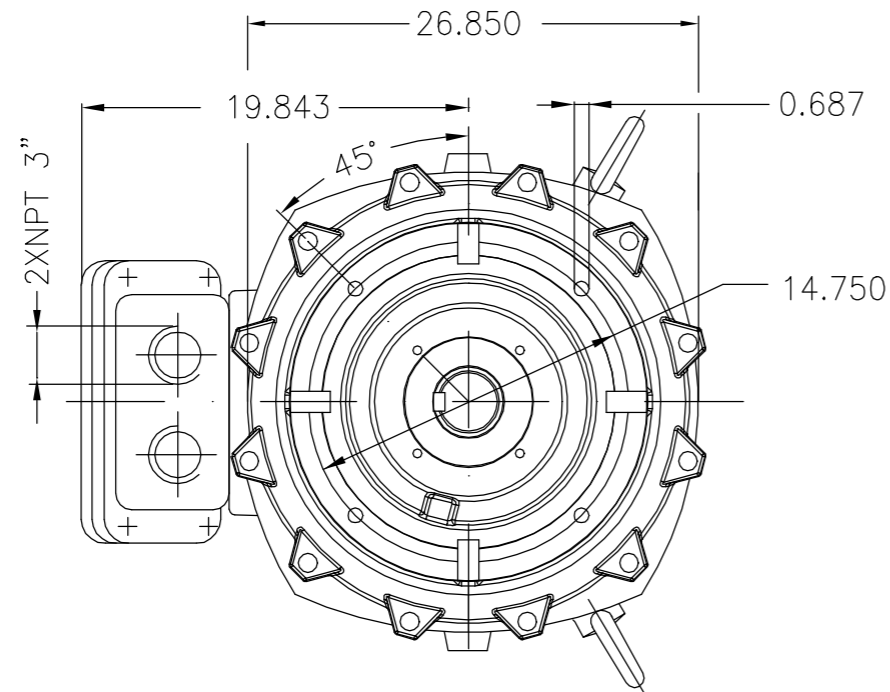
A

B

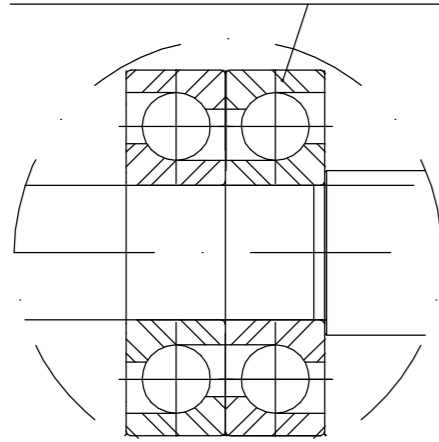
C

D

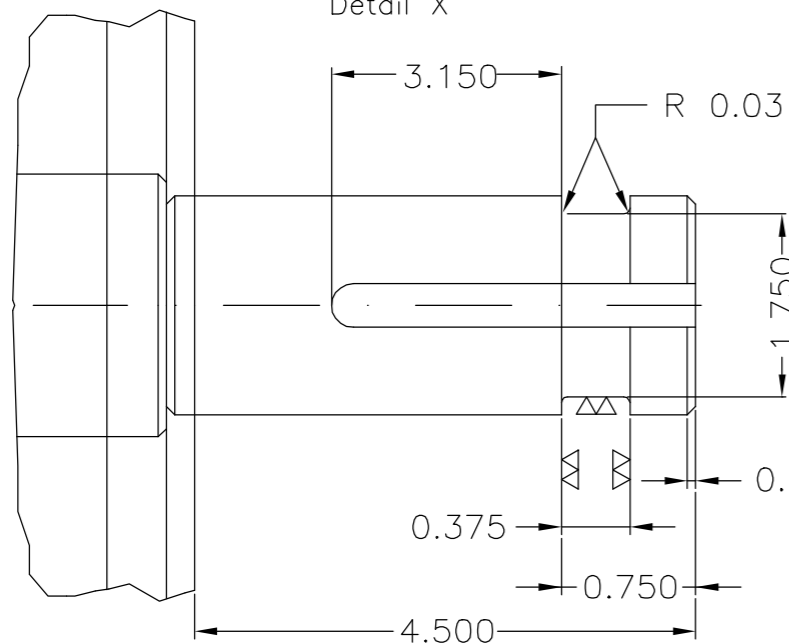
E



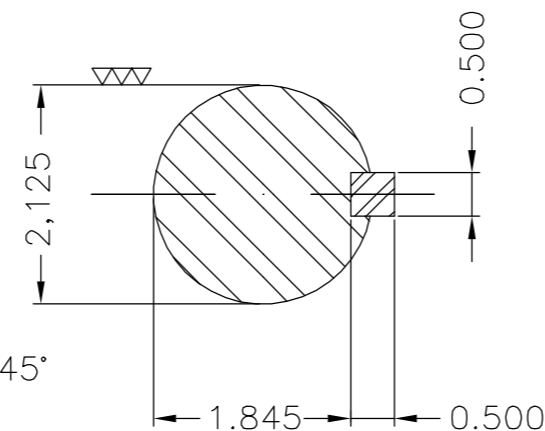
NDE BEARING 7311 BECB



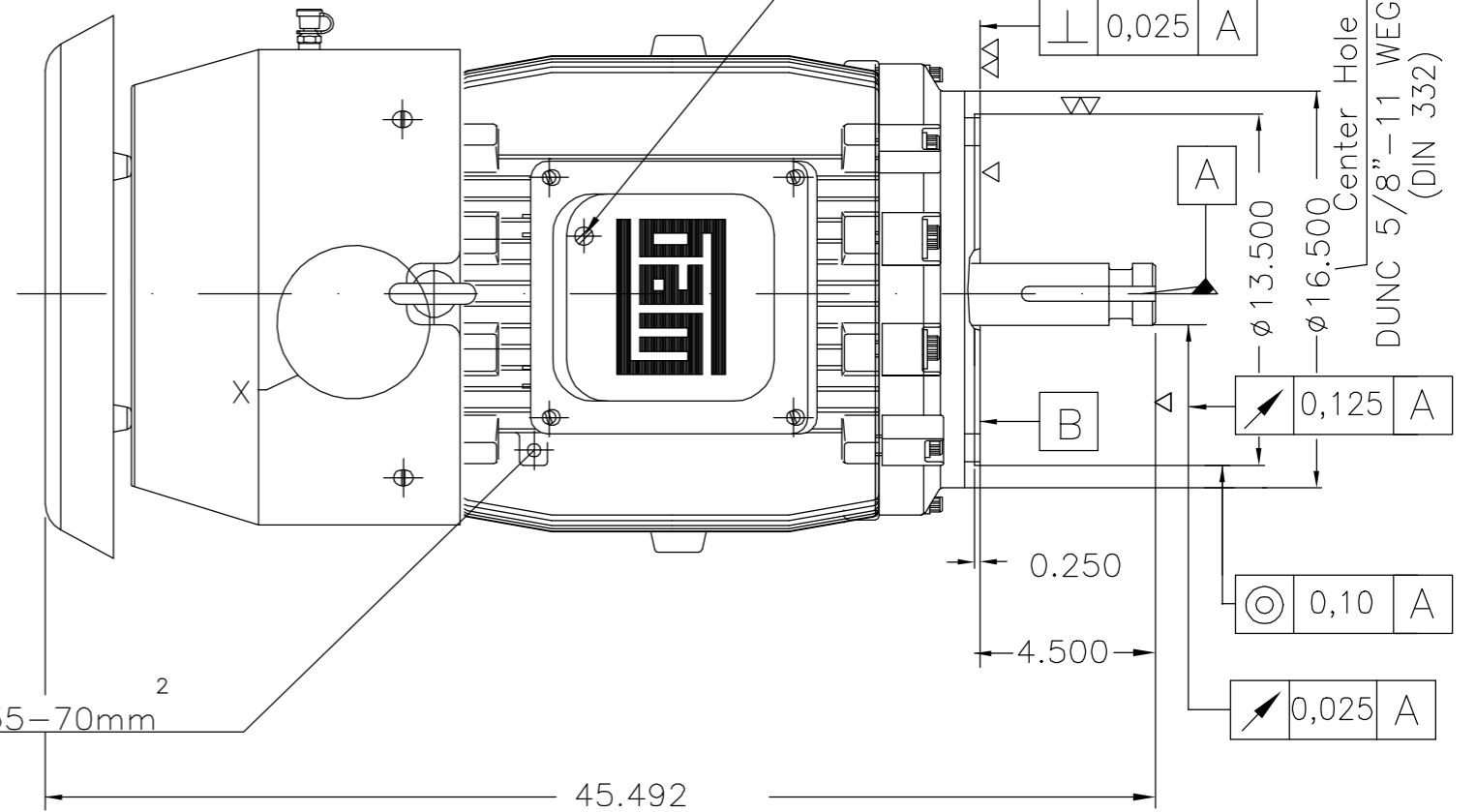
Detail X



Grounding for leads 35-70mm



Grounding for leads 35-70mm²



Center Hole
DUNC 5/8"-11 WEG TBG12
(DIN 332)

Carcaça especial / Special frame						
Rolamento traseiro de contato angular 7311BE / N.D.E. bearing 7311BE						
Placa de identificação deve constar NEMA PREMIUM / Nameplate shall state NEMA PREMIUM						
Vedação no mancal dianteiro - retentor com mola / D.E sealing - oil seal ring						
Ventilador de Alumínio / Aluminum fan						
Material do eixo - AISI/SAE 4140 / Shaft material - AISI/SAE 4140						
Vedação no mancal traseiro - retentor / NDE sealing - lip seal						
Saída dos cabos voltada para o lado do eixo / Cable outlet directed to shaft end						
Plano de pintura 203A / Painting plan 203A						
Forma construtiva V1 / Mounting V1						
V.J. PAMENSKY CANADA INC.						

500001594952		ALTERADO CONF. CLAIM 415204042	RICLAV	DALTONR	DALTONR	24.05.2019	03
500000653189		ALT. CONF. CLAIM 412578232	SCARMAGNANI	DVEGINI	DVEGINI	03.09.2012	02
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	ADRIANAP	THREE-PHASE IN LINE EXTRA THRUST MOTOR					
CHECKED	DOUGLASRA	FRAME 447LP IP55					
RELEASED	DOUGLASRA						
REL DT	06.10.2011	WMO	JARAGUA DO SUL	ENGENHARIA DE PRODUTO			

250 HP 02 Poles 60Hz 412274540/0 MEC

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