

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14643833

Frame	: 215LP	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 17.1/8.57 A	Protection degree	: IP55
L. R. Amperes	: 120/60.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code H)	Mounting	: W-6
No load current	: 4.61/2.31 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 1.54 kgfm	Approx. weight ³	: 109 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0198 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	85.5	88.5	89.5	Max. traction
Power Factor	0.00	0.78	0.87	0.90	Max. compression

	Drive end	Non drive end
Bearing type	: 6309	: 7306BECB
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: 7898 h	: 8437 h
Lubricant amount	: 13 g	: 7 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		Revision
Checked by		1 / 2		
Date	29/10/2024			

LOAD PERFORMANCE CURVE

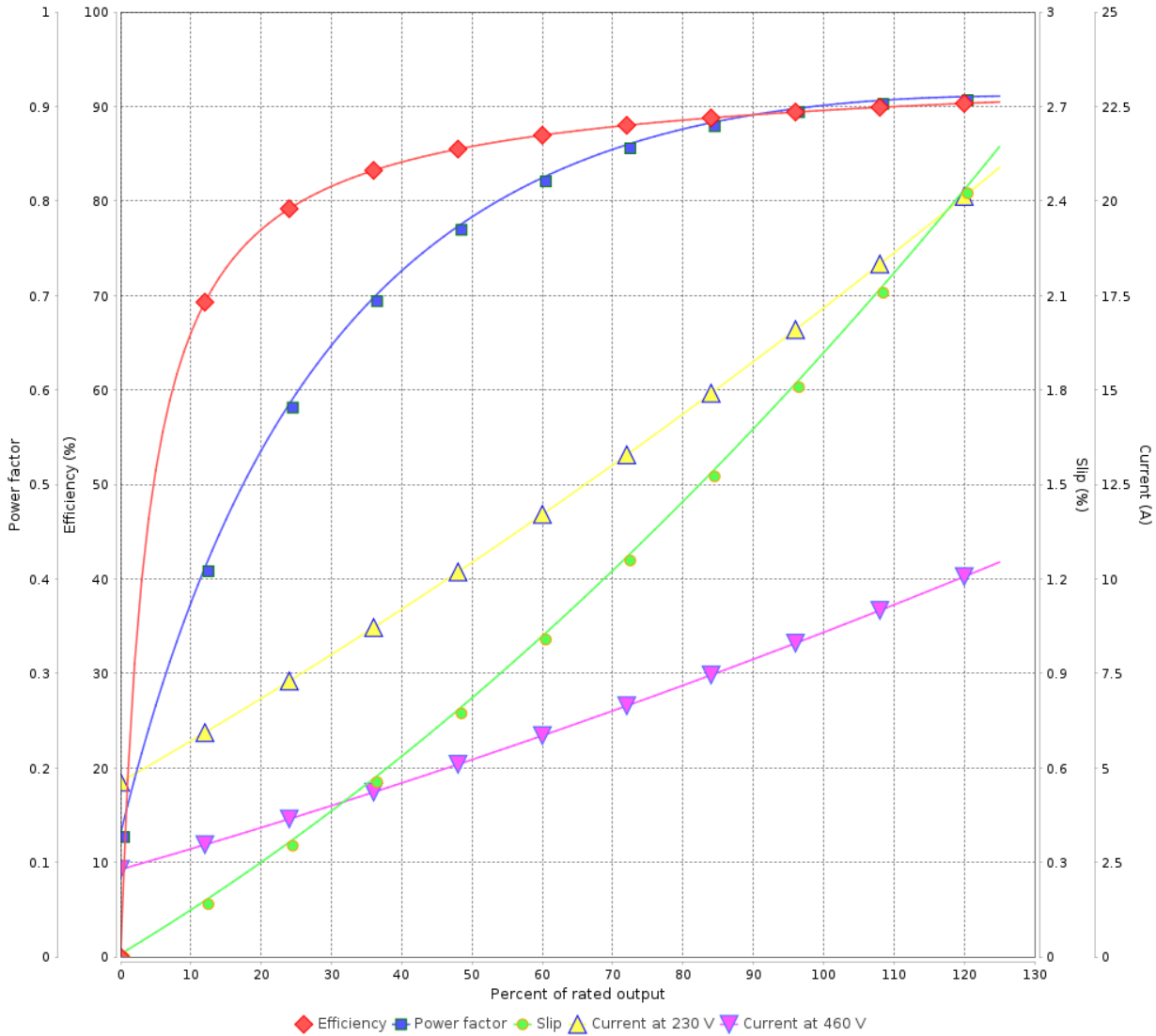
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14643833

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 2P

Rated current : 17.1/8.57 A
 LRC : 7.0
 Rated torque : 1.54 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 3530 rpm

Moment of inertia (J) : 0.0198 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	29/10/2024			

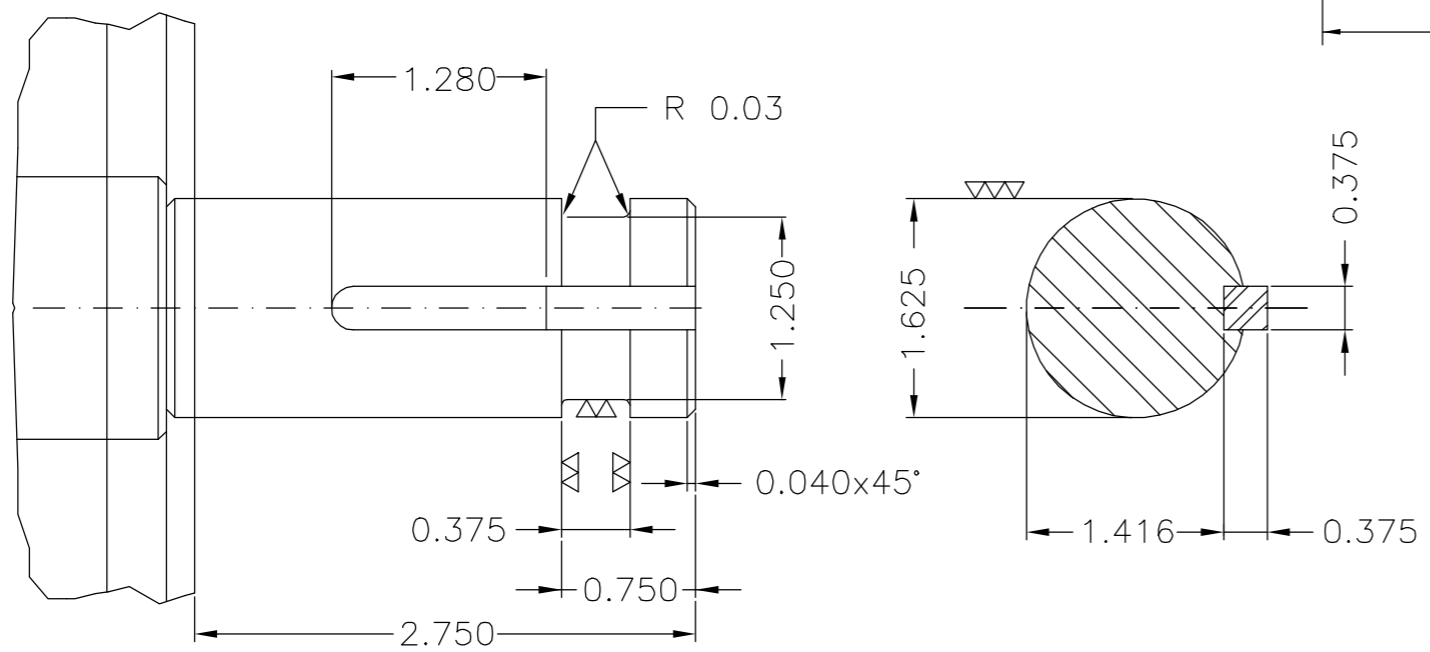
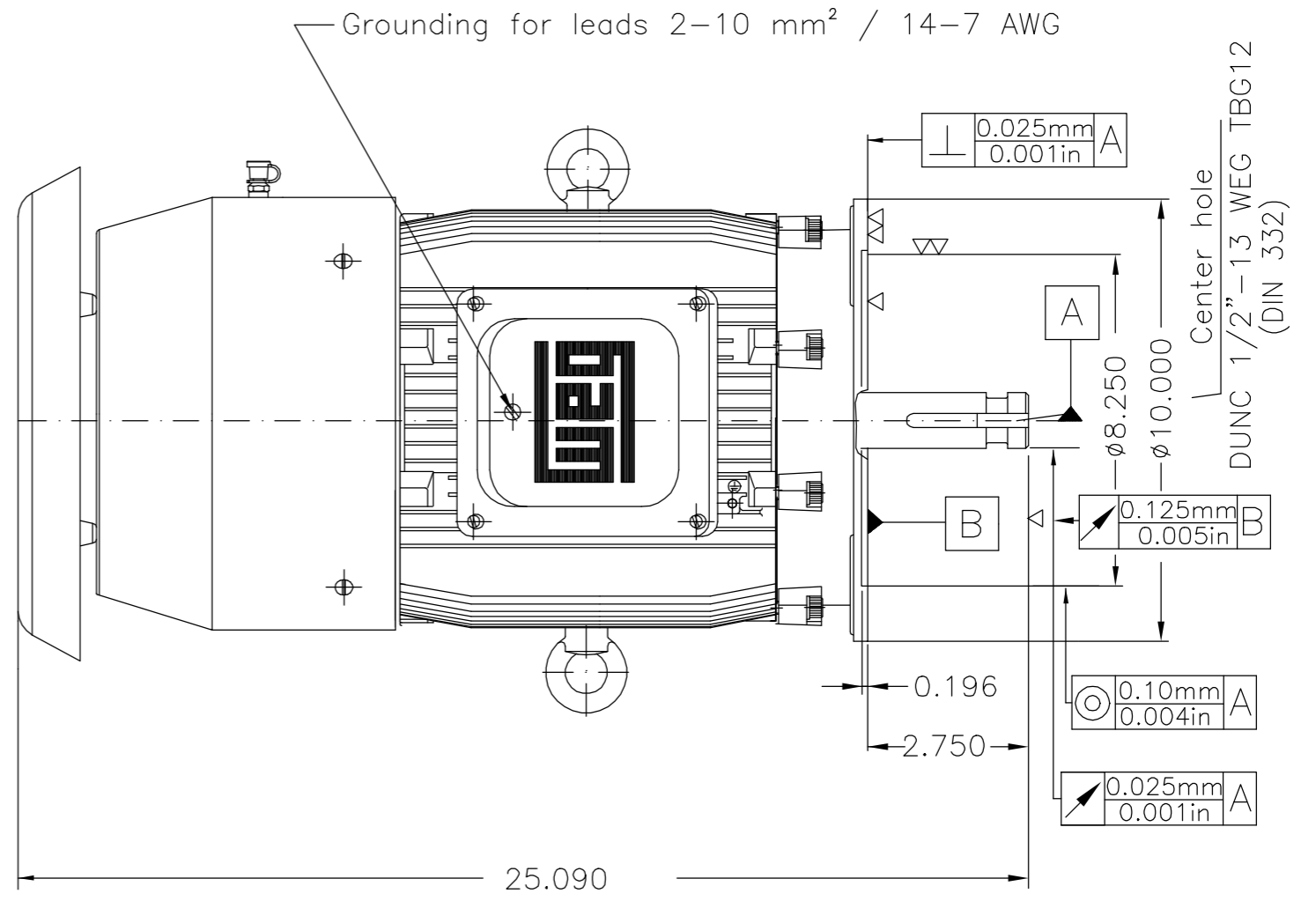
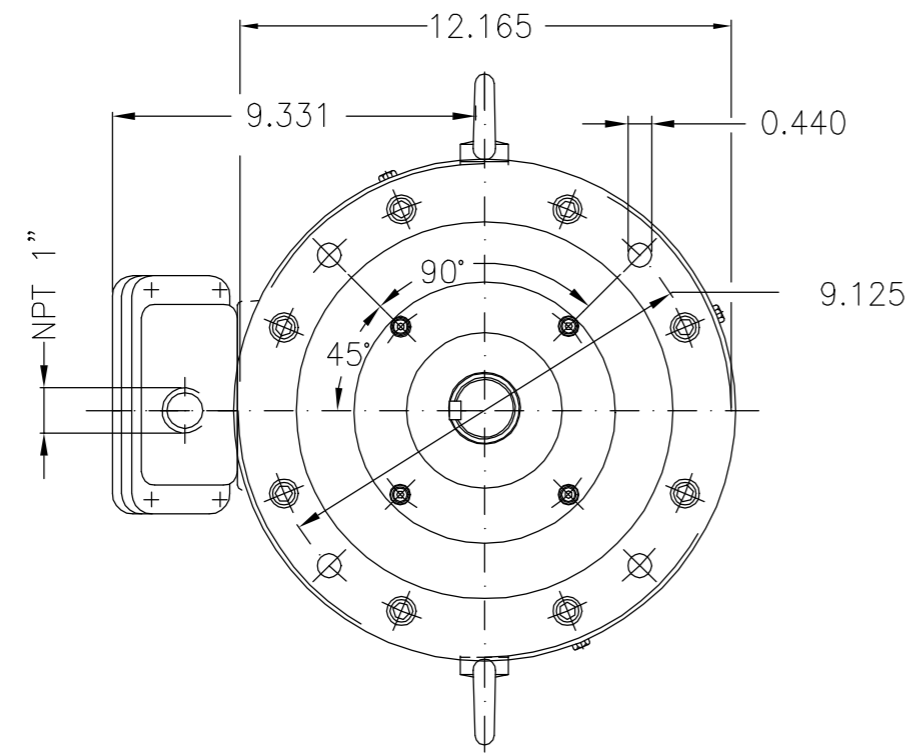
EIXO/SHAFT	
PADRÃO/STANDARD	X
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	

Dimensões em polegada
Dimensions in inches

CERTIFIED WEG MOTORES
Certified document.
Not subject to changes.

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

ATENÇÃO/ATTENTION
MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL
MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION



Placa de identificação com marcação especial / Nameplate with special marking
Cor RAL 5009 / Color RAL 5009
Plano de pintura 207A / Painting plan 207A
Forma construtiva NEMA W-6 / Mounting NEMA W-6
Forma construtiva V1 / Mounting V1

V.J. PAMENSKY CANADA INC.

500002148791	ALT CONFORME 418229042	CLAUDEMIRR	JACKSONDC	JACKSONDC	14.06.2022	04			
500001781587	417359503	FRANCINES	RICLAV	RICLAV	24.06.2020	03			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	DANIELAW	THREE-PHASE IN LINE EXTRA THRUST MOTOR		10006137324					
CHECKED	RPAULI	FRAME 215LP IP55 TEFC		000 04					
RELEASED	RPAULI								
REL DT	23.10.2018	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

10 HP	02 Poles	60Hz		B
7.5 HP	02 Poles	60Hz	415234508/0	A

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RELEASED

ZME A3