

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase		Product code : 14022317		
Frame	: 364/5LP		Locked rotor time	: 32s (cold) 18s (hot)		
Output	: 75 HP (55 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	: 65.9 A		Protection degree	: IP55		
L. R. Amperes	: 461 A		Cooling method	: IC411 - TEFC		
LRC	: 7.0x(Code G)		Mounting	: W-6		
No load current	: 17.6 A		Rotation ¹	: CW		
Rated speed	: 3560 rpm		Noise level ²	: 85.0 dB(A)		
Slip	: 1.11 %		Starting method	: Direct On Line		
Rated torque	: 15.3 kgfm		Approx. weight ³	: 458 kg		
Locked rotor torque	: 229 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.4198 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.0	94.1	94.1	Max. traction	
Power Factor	0.00	0.81	0.87	0.89	Max. compression	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6314			7311BECB	
Sealing	:	Oil Seal			Lip Seal	
Lubrication interval	:	1802 h			1621 h	
Lubricant amount	:	27 g			18 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	27/10/2024				1 / 2	

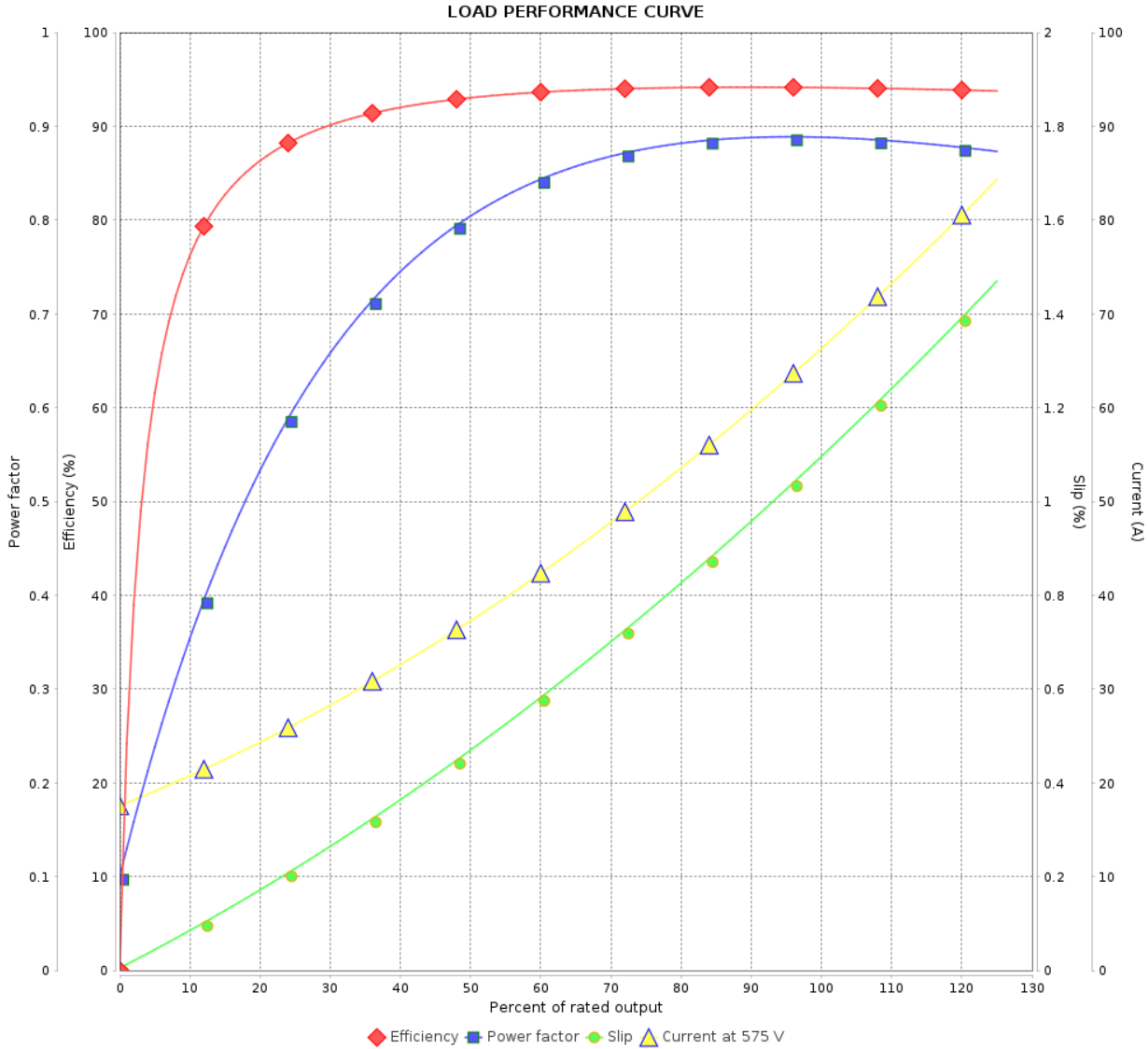
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14022317



Performance : 575 V 60 Hz 2P

Rated current	: 65.9 A	Moment of inertia (J)	: 0.4198 kgm ²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 15.3 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

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Performed by			Page 2 / 2	Revision
Checked by				
Date	27/10/2024			

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

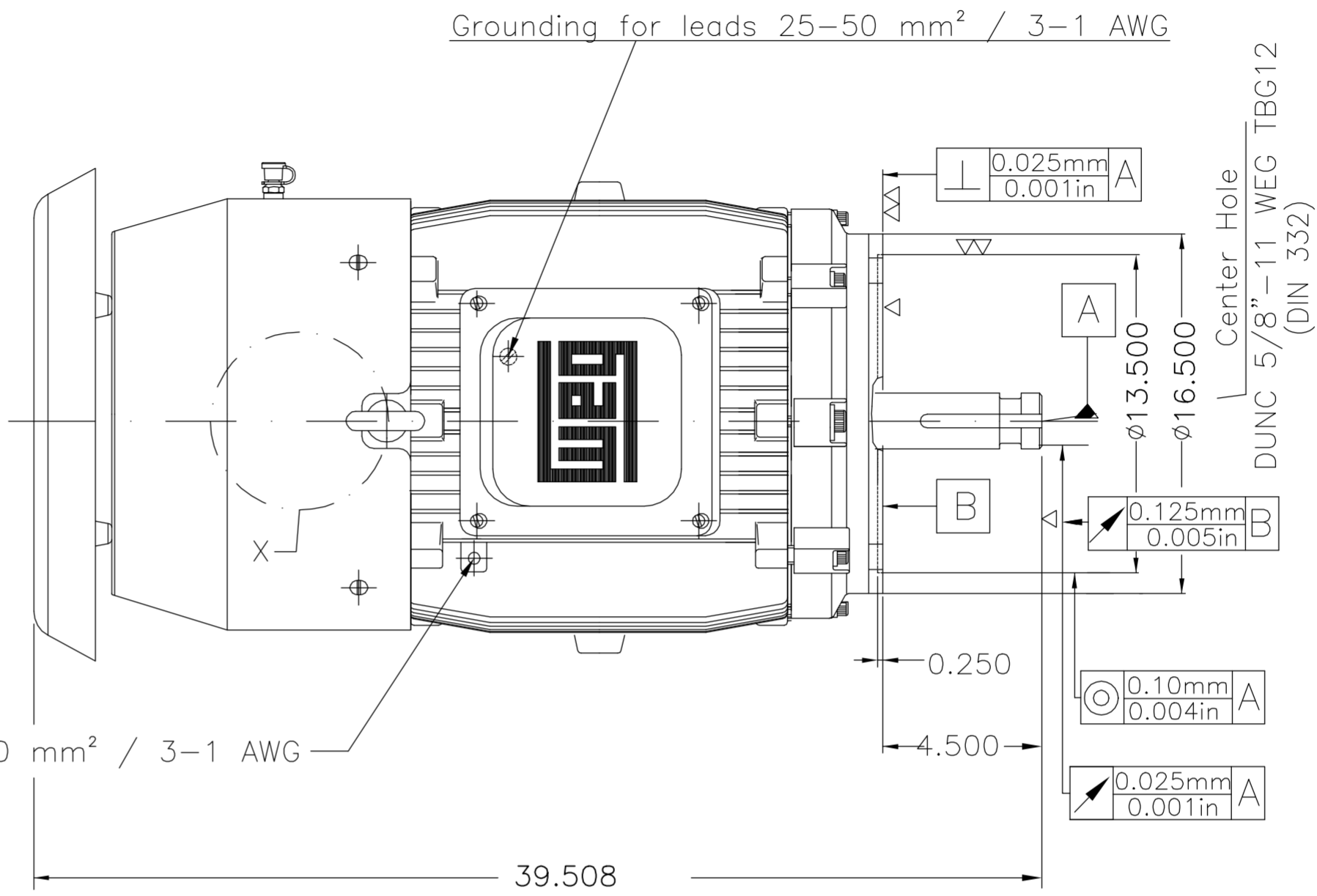
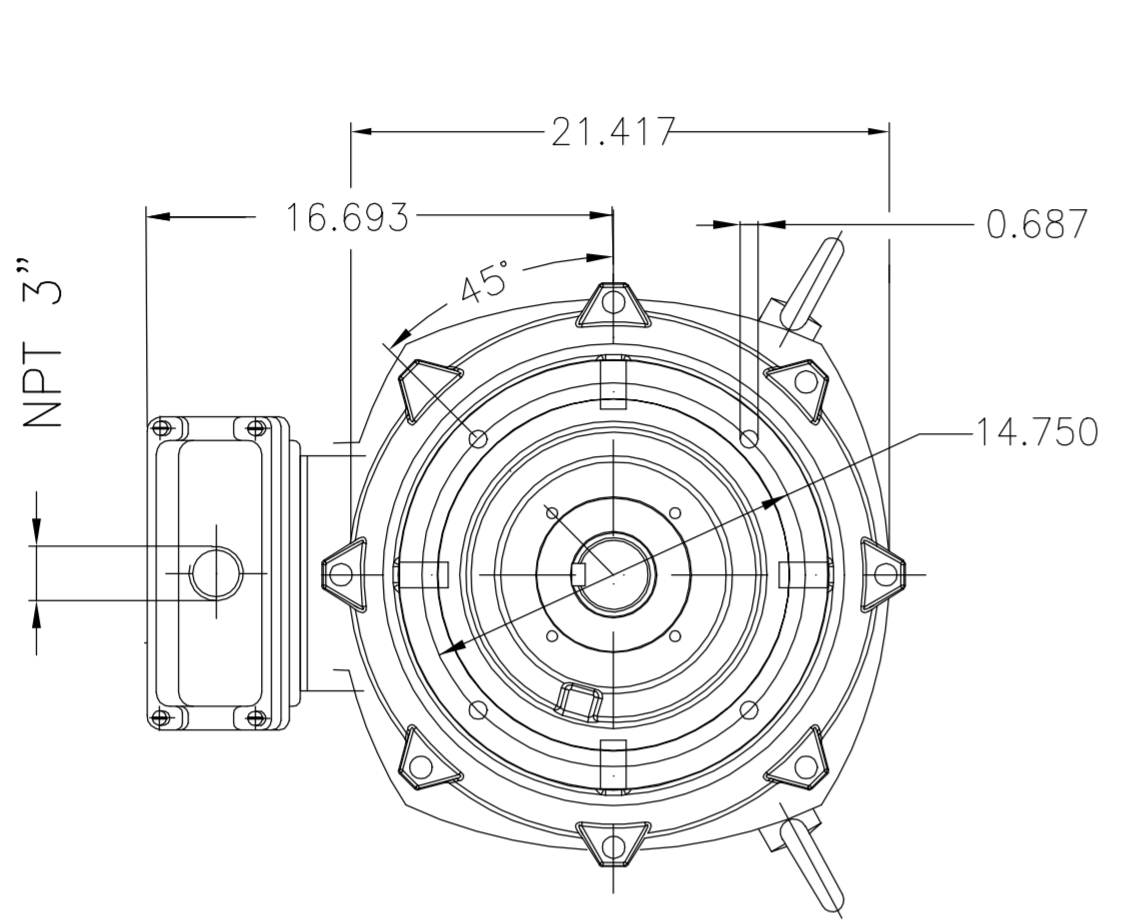
Dimensões em polegada
 Dimensions in inches

**CERTIFIED
 WEG MOTORES**
 Certified document.
 Not subject to changes.

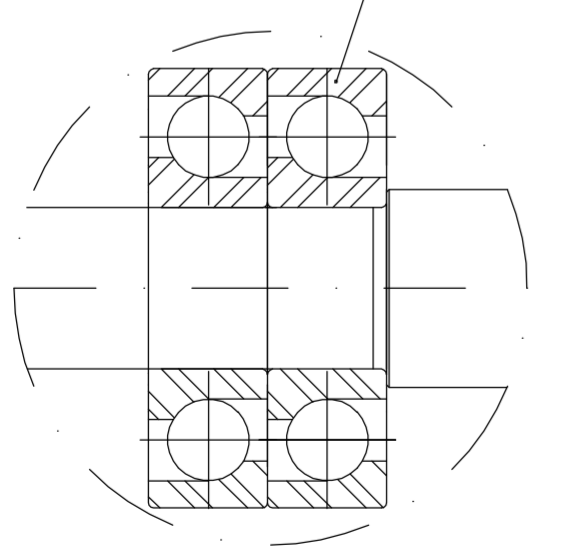
THIS IS AN UPDATED REVISION, THE
 PREVIOUS ONE MUST BE DISREGARDED.

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

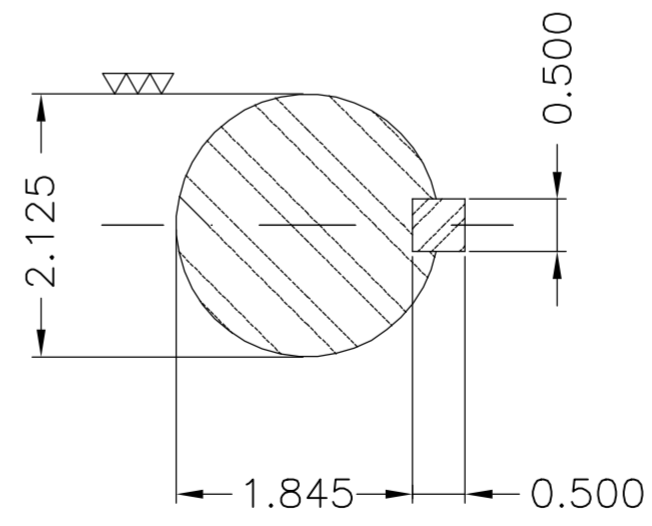
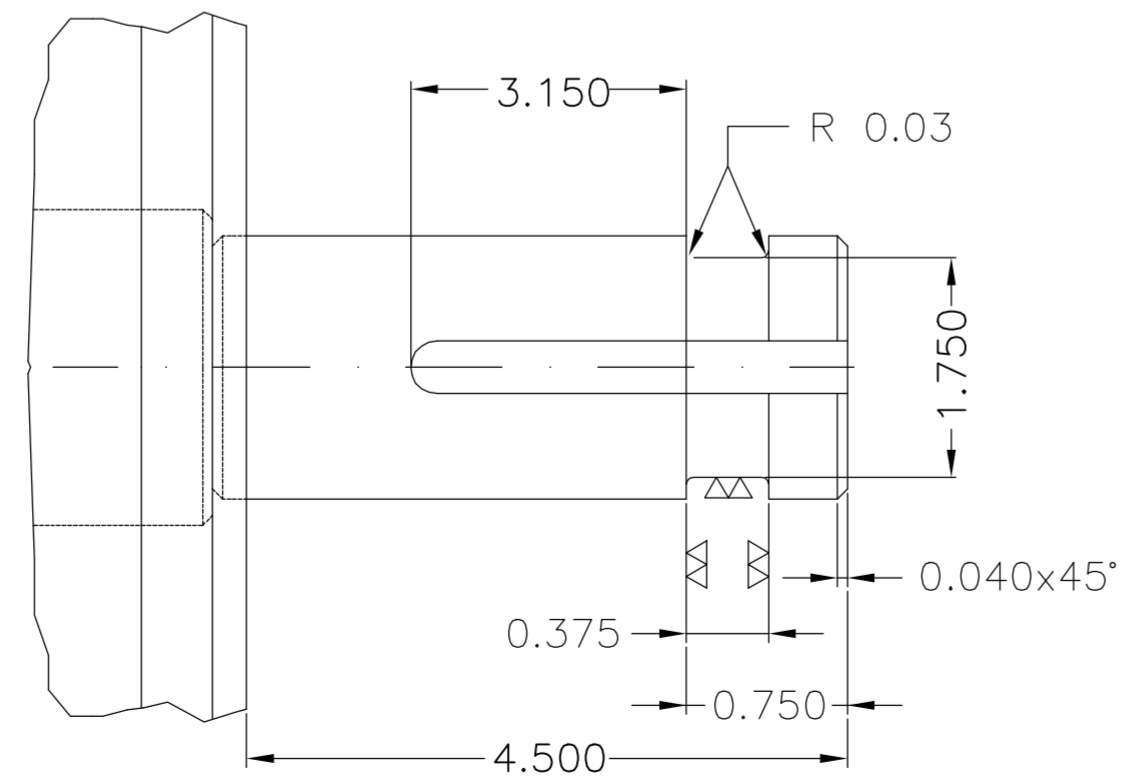
Sentido da Carga
 Axial Thrust Direction



NDE bearing 2x7311 BECB



Detail X



Rolamentos traseiros de contato angular (2x) 7311 BECB
 (2x) 7311 BECB NDE angular contact ball bearing
 Sentido de rotação horário / Clockwise rotation
 Cor RAL 5009 / Color RAL 5009
 Plano de pintura 203A / Painting plan 203A
 Forma construtiva NEMA W-6 / Mounting NEMA W-6
 Forma construtiva V1 / Mounting V1
V.J. PAMENSKY CANADA INC.

500001594952	ALTERADO CONF. CLAIM 415204042	RICLAV	DALTONR	DALTONR	24.05.2019	03			
500001319724	ALT. CONF. CLAIM 414679447-DETALHAMENTO	JOAOVICTOR	ANDERSONFS	ANDERSONFS	06.06.2017	02			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	JOAOVICTOR		THREE-PHASE IN LINE EXTRA THRUST MOTOR	10004929985
CHECKED	ADRIANAP		FRAME 364/SLP IP55 TEFC	
RELEASED	ADRIANAP			
REL DT	09.05.2017			

75 HP 02 Poles 60Hz 414654929/0 MEC.