

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase		Product code : 14893765		
Frame	: 404/5LP		Locked rotor time	: 23s (cold) 13s (hot)		
Output	: 100 HP (75 kW)		Temperature rise	: 80 K		
Poles	: 4		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	: 90.7 A		Protection degree	: IP55		
L. R. Amperes	: 653 A		Cooling method	: IC411 - TEFC		
LRC	: 7.2x(Code H)		Mounting	: W-6		
No load current	: 34.4 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1780 rpm		Noise level ²	: 75.0 dB(A)		
Slip	: 1.11 %		Starting method	: VFD		
Rated torque	: 40.8 kgfm		Approx. weight ³	: 554 kg		
Locked rotor torque	: 270 %					
Breakdown torque	: 300 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 1.11 kgm ²					
Design	: A					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	94.5	95.0	95.4	Max. traction	
Power Factor	0.00	0.72	0.82	0.87	Max. compression	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6314 C3			7315BECB	
Sealing	:	Oil Seal			Lip Seal	
Lubrication interval	:	4895 h			3268 h	
Lubricant amount	:	27 g			30 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	29/10/2024				1 / 2	

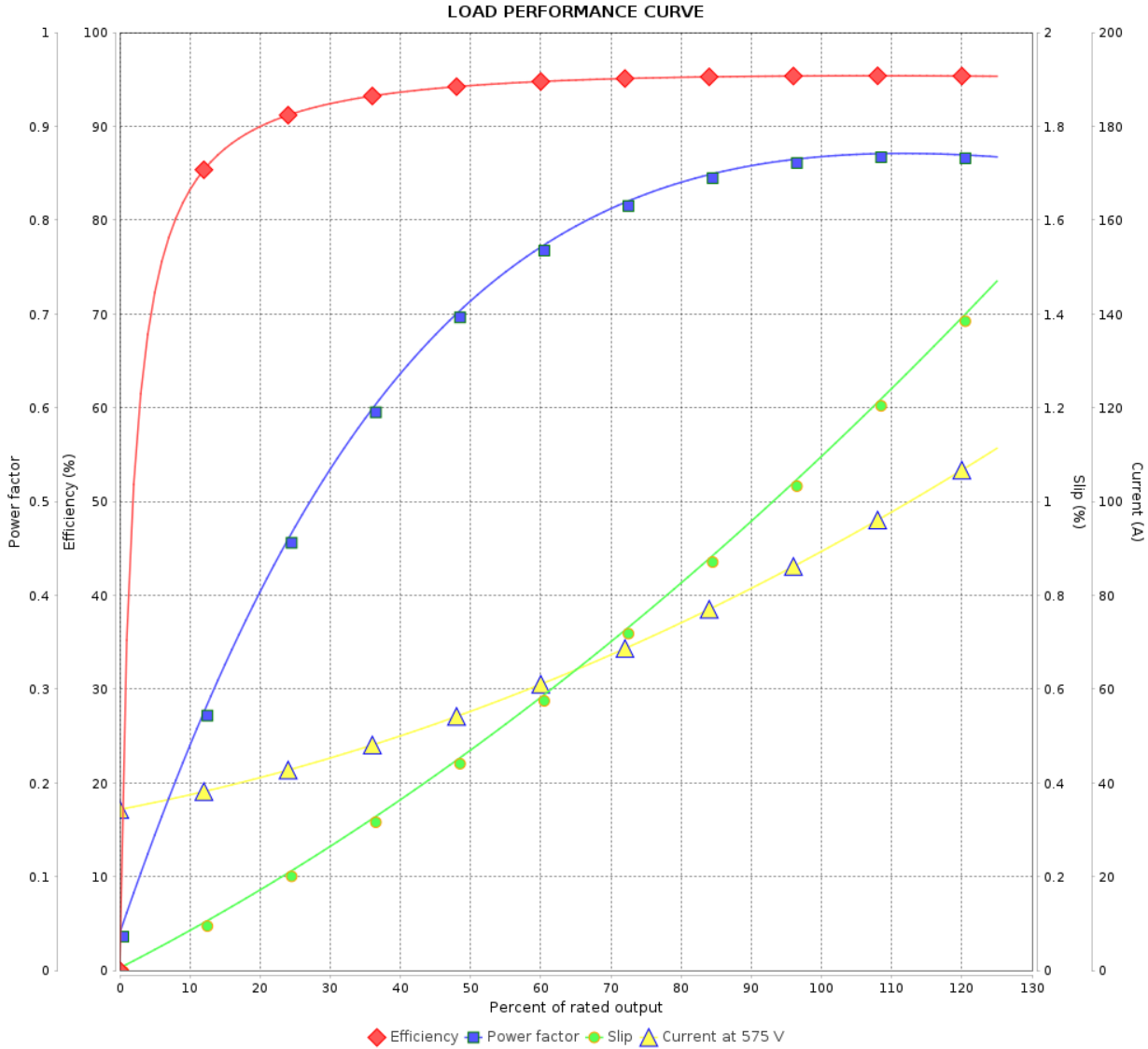
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14893765



Performance : 575 V 60 Hz 4P

Rated current	: 90.7 A	Moment of inertia (J)	: 1.11 kgm ²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: A

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

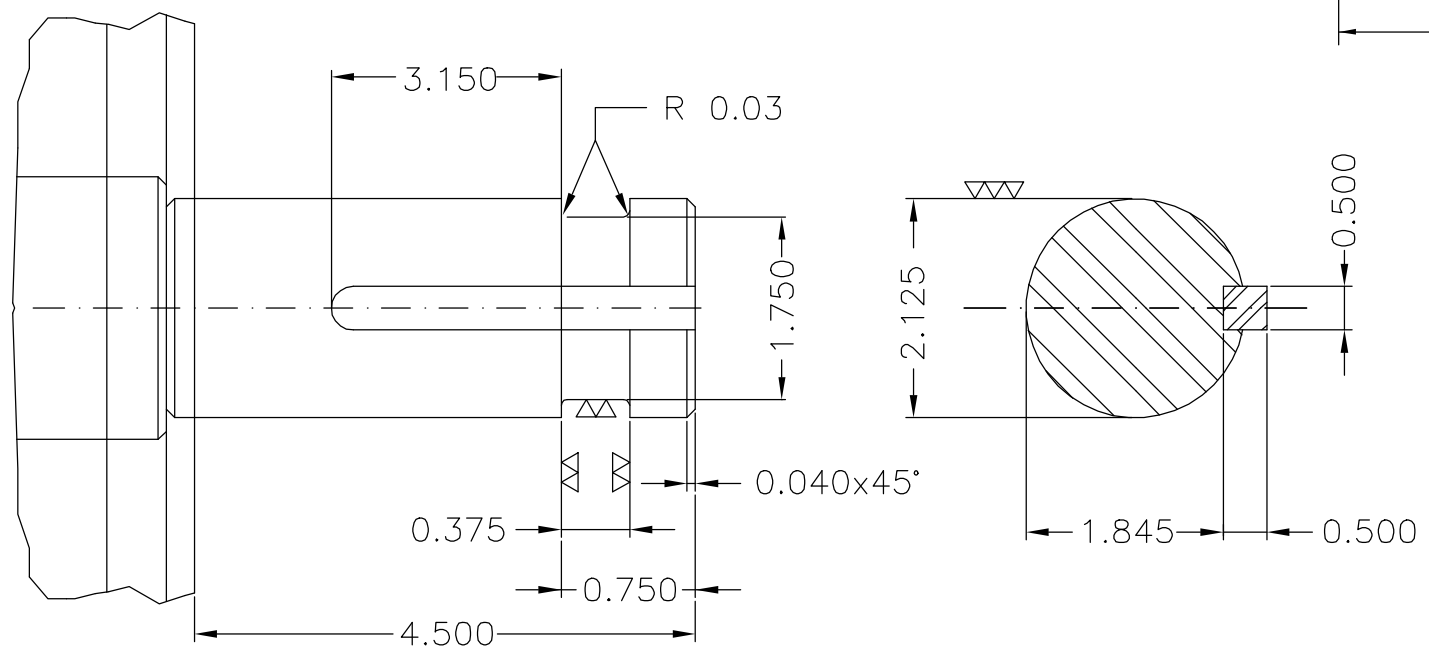
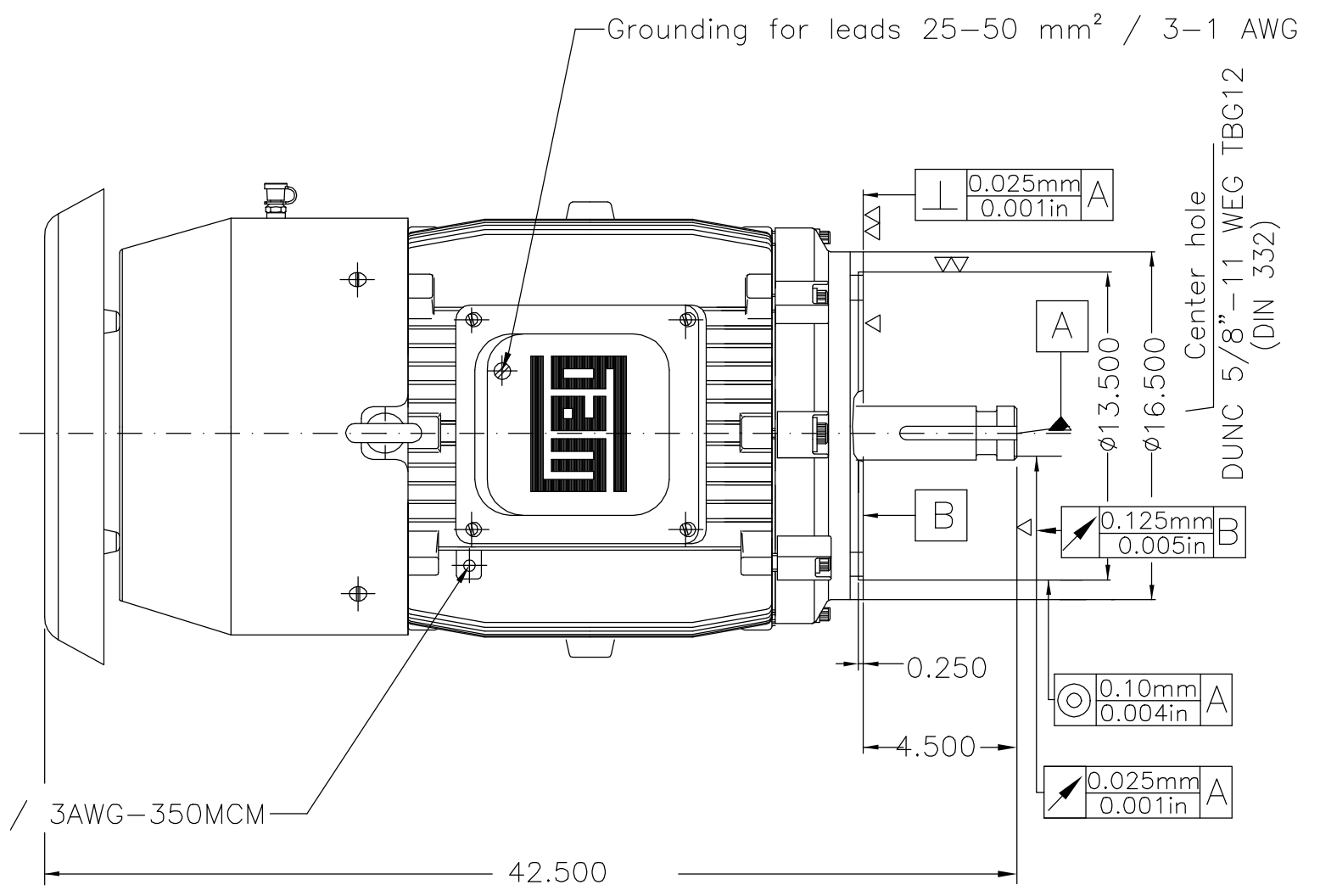
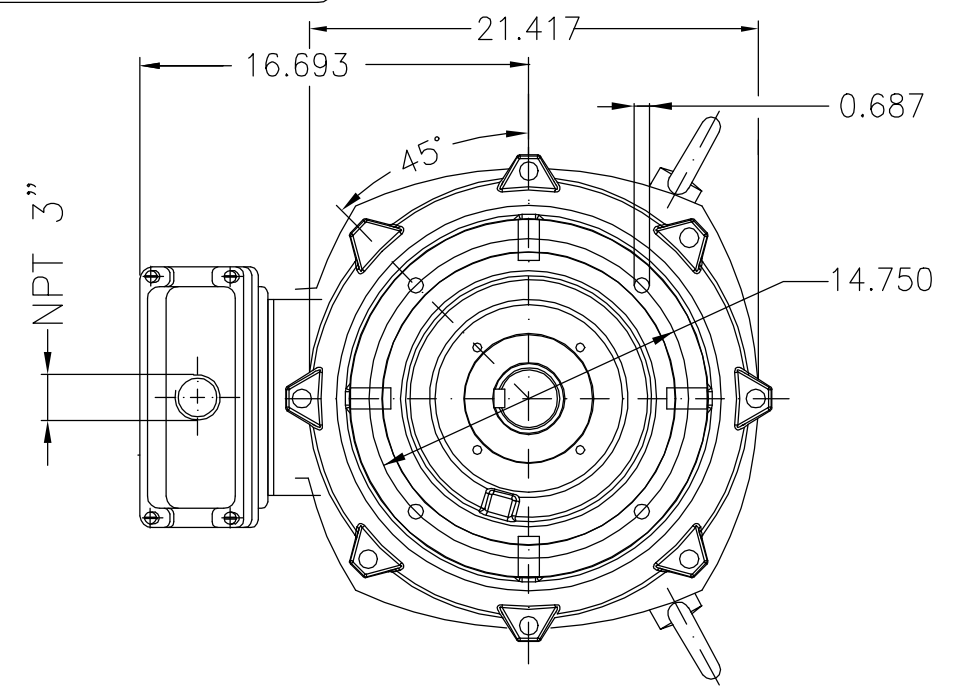
EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

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



Categoria A / Design A						
Cor RAL 5009 / Color RAL 5009						
Plano de pintura 203A / Painting plan 203A						
Fator de serviço 1.15 / Service factor 1.15						
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	01
500001592859		DOCUMENTO NOVO	CLEITONGS	FERNANDOLUIS	FERNANDOLUIS	07.05.2019	00
ECM	LOC	RESUMO MODIFICAÇÃO	EXECUTADO	VERIFICADO	LIBERADO	DATA	VER
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXEC. /EXECUTED	CLEITONGS	THREE-PHASE IN LINE EXTRA THRUST MOTOR FRAME 404/5LP IP55 TEFC	10006592388				
VERIF. /CHECKED	FERNANDOLUIS		000	01			
LIBER. /RELEASED	FERNANDOLUIS						
DATA LB /REL DT	07.05.2019	WMO	Jaragua do Sul	Product Engineering	FOLHA/SHEET	1 / 1	

100 HP 04 Poles 60Hz 415447013/1 ELE

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