# DATA SHEET

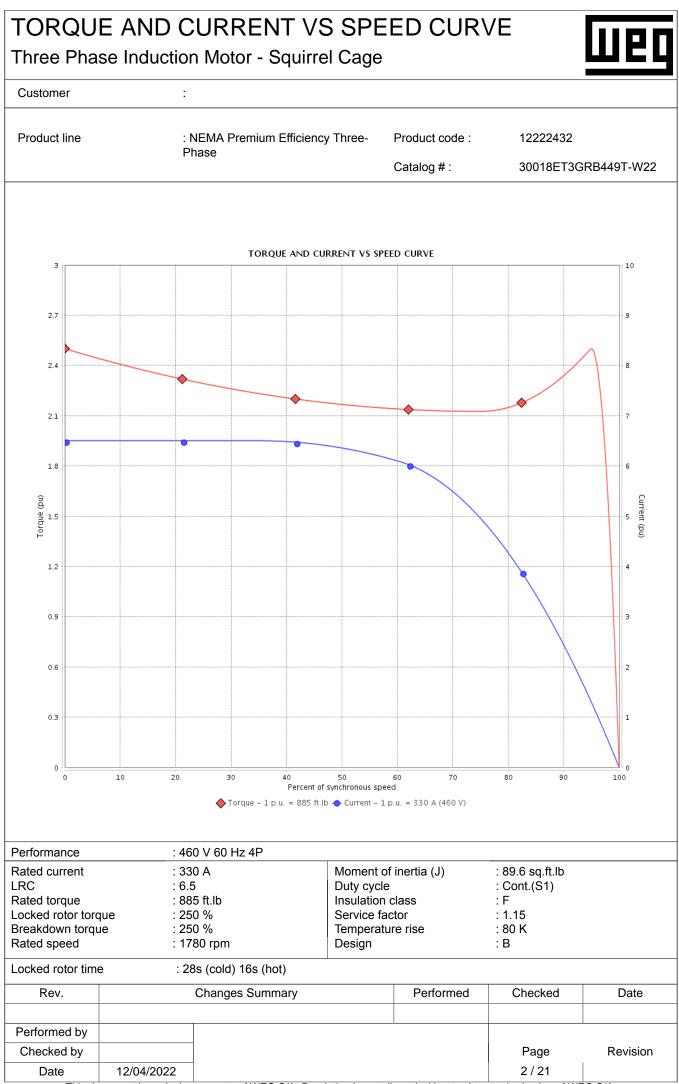
Three Phase Induction Motor - Squirrel Cage

:



#### Customer

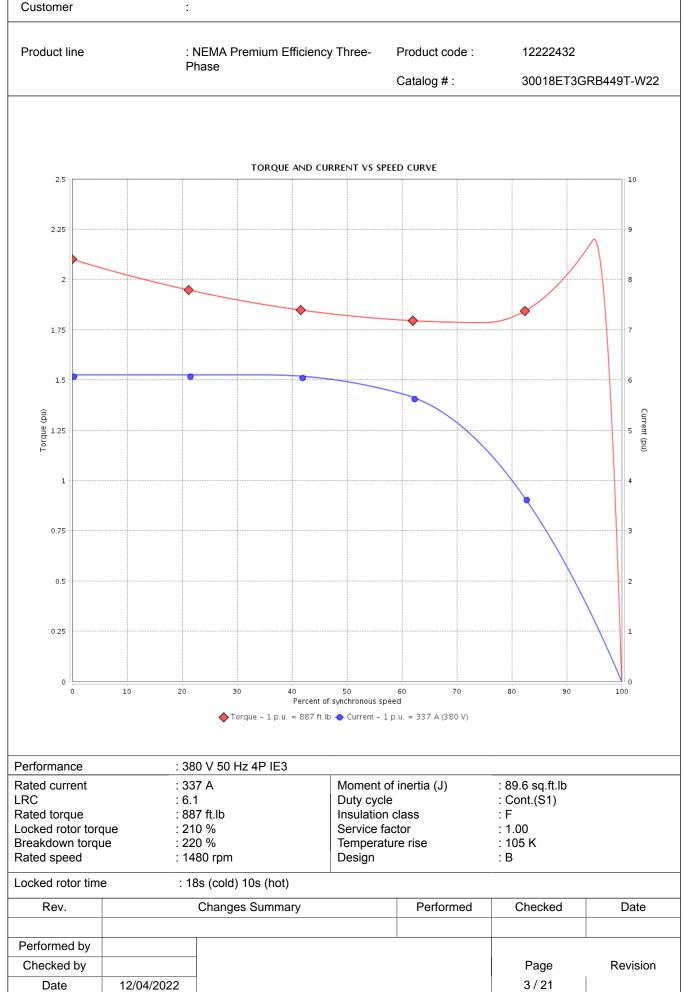
Product line		: NEMA Premium Effi Phase	ciency T	hree- Pr	oduct code :	122224	12222432		
		1 11030	Ca	Catalog # :		30018ET3GRB449T-W22			
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 447/9T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 2886 lb : 89.6 sq.ft.lb			
-		: B		250	05	0	050		
Output [HP] Poles		300		250 4	25	-	<u>250</u> 4		
Frequency [Hz]		60		50			50		
Rated voltage [V]		460		380	40		415		
Rated current [A]		330		337	32	-	311		
. R. Amperes [A]		2145		2056	214		2239		
_RC [A]		6.5x(Code G)	6 1	1x(Code F)	6.7x(Co		7.2x(Code H)		
	1	105	υ.	104	11		116		
No load current [A		105							
Rated speed [RPN	n]			1480	148		1485		
Slip [%] Detect tergula [ft lb]	1	1.11		1.33	1.3		1.00		
Rated torque [ft.lb]		885		887	88		884		
Locked rotor torqu		250		210	24		260		
Breakdown torque	[%]	250		220	25		270		
Service factor		1.15		1.00	1.0		1.00		
Temperature rise		80 K	40 1	105 K	105		105 K		
Locked rotor time		28s (cold) 16s (hot)		cold) 10s (ho			18s (cold) 10s (hot)		
Noise level <sup>2</sup>	050/	75.0 dB(A)	1	1.0 dB(A)	71.0 c		71.0 dB(A)		
	25%	95.7		95.5	95		94.9		
Efficiency (%)	50%	95.8		95.8	95		95.4		
	75%	96.2		95.8	96		95.8		
	100%	96.2		96.0	96		96.2		
	25%	0.52		0.53	0.4	-	0.47		
Power Factor	50%	0.77		0.78	0.7		0.73		
	75%	0.84		0.84	8.0		0.82		
Bearing type Sealing	100%	: NU-322 C3 63	<u>rive end</u> 19 C3 /Seal	0.87 Foundation Max. traction Max. comp	on	: 4921   : 7806			
Lubrication interv Lubricant amoun Lubricant type		: 4000 h 80 : 60 g 4	4000 h 8000 h				-		
Notes									
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	d. otor from the m and with t veight subjec ocess.	olerance of +3dB(A).	hich		•		sts with sinusoidal stipulated in NEMA		
(4) At 100% of ful Rev.		Changes Summer	,		Performed	Checked	d Date		
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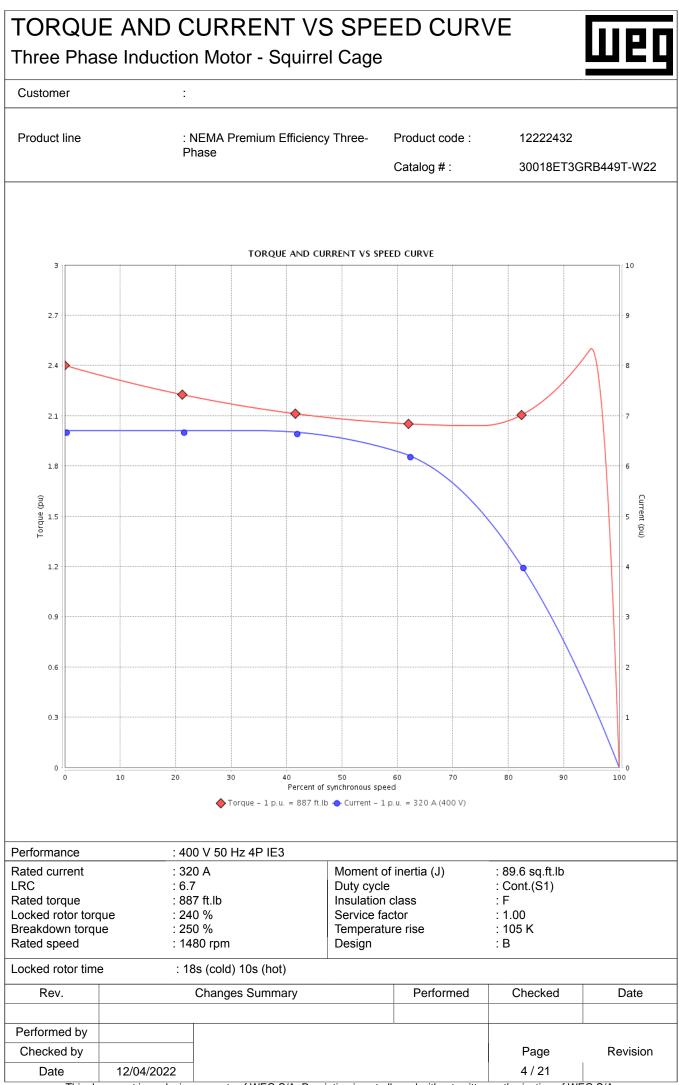
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



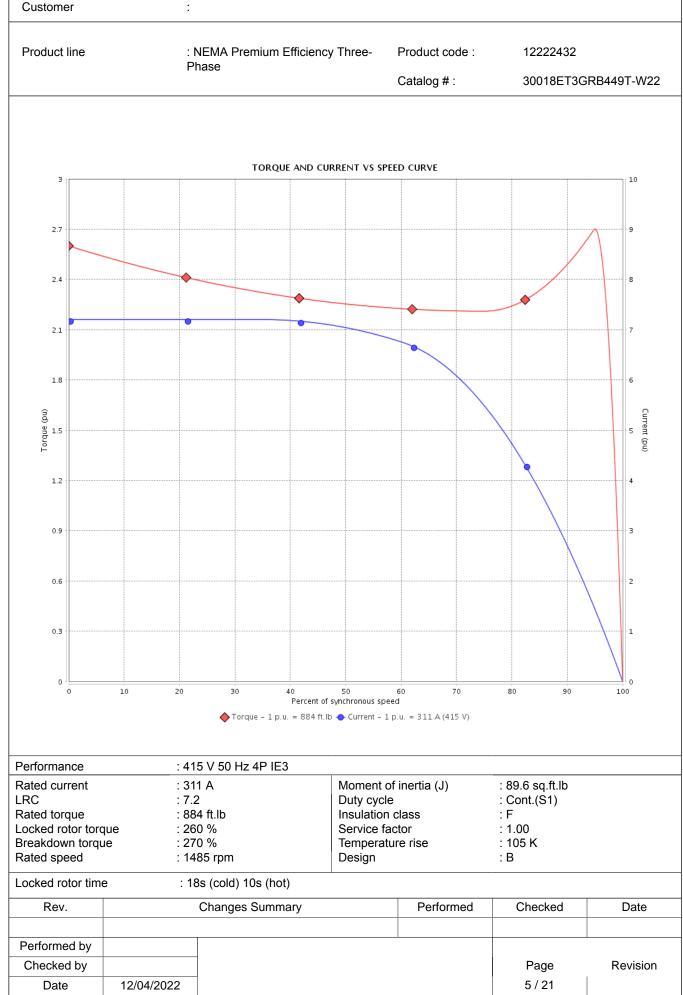
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### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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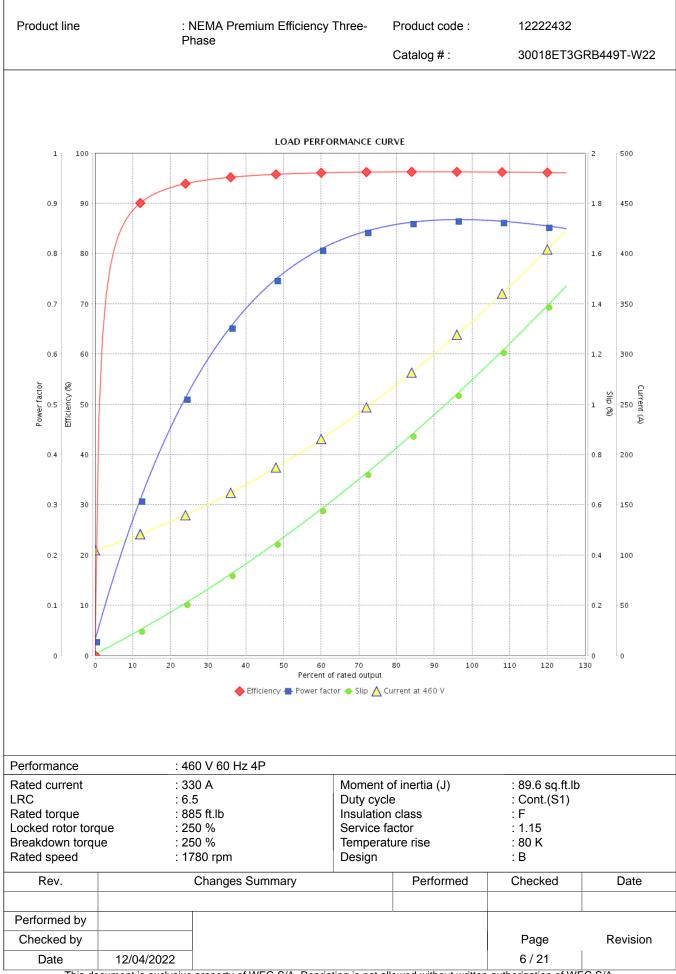
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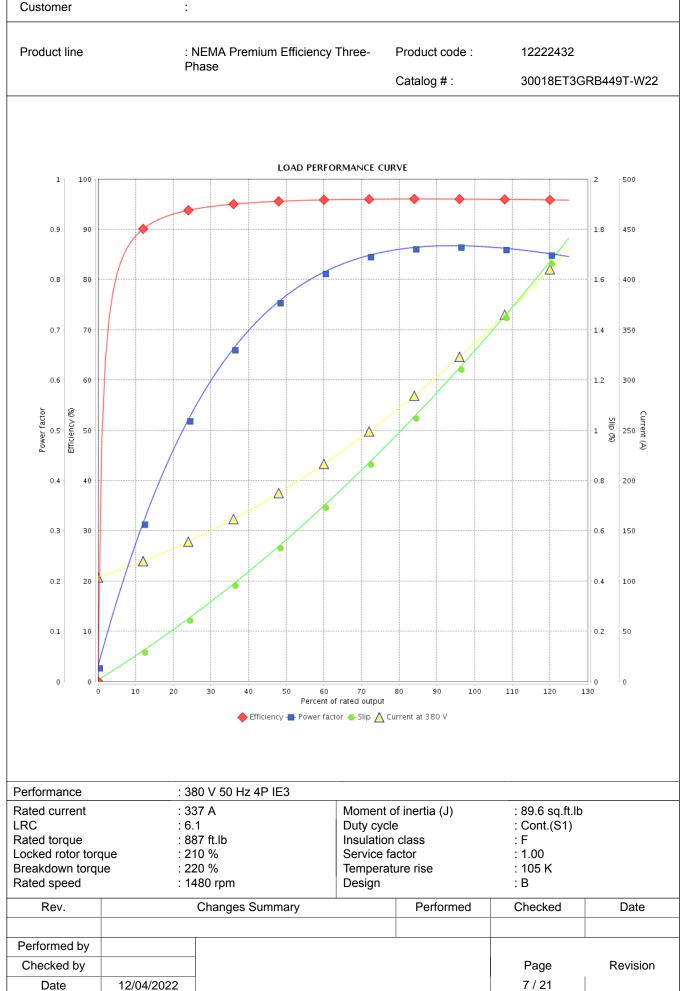


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Three Phase Induction Motor - Squirrel Cage

### Customer



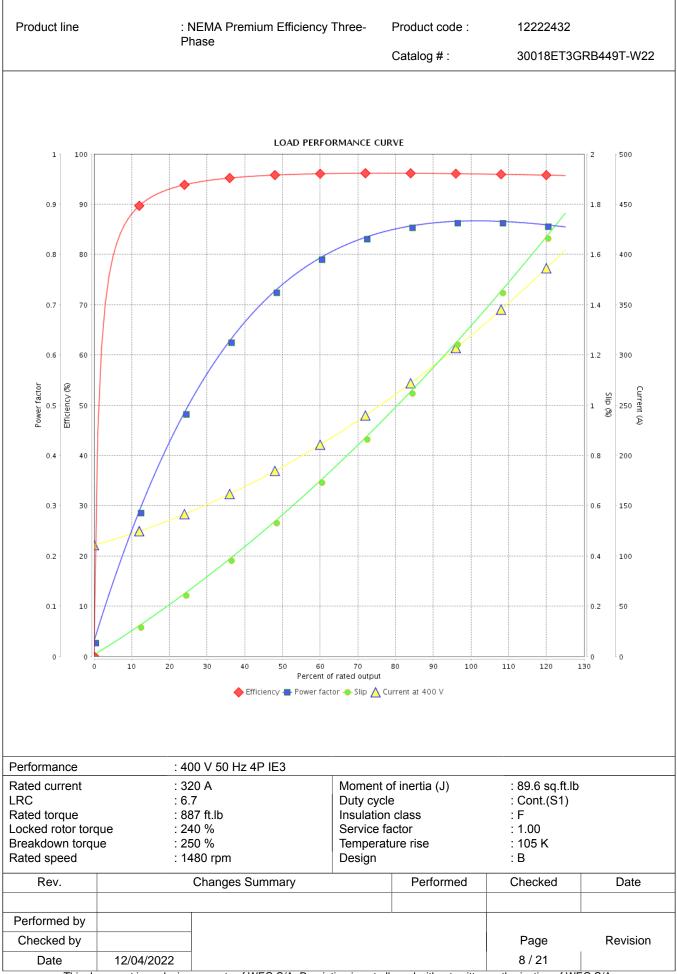
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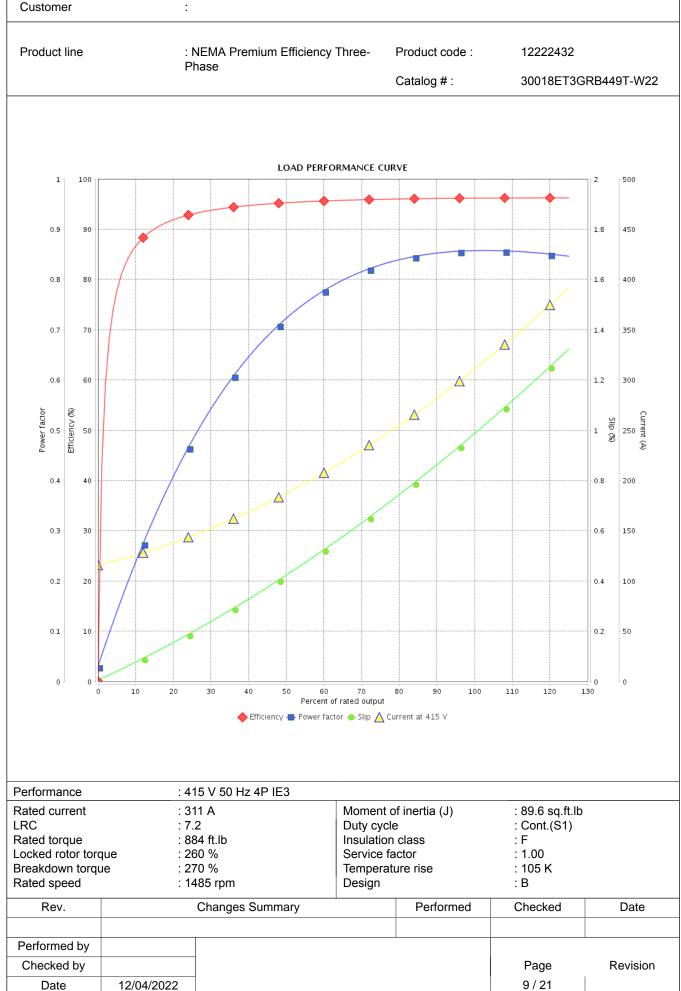


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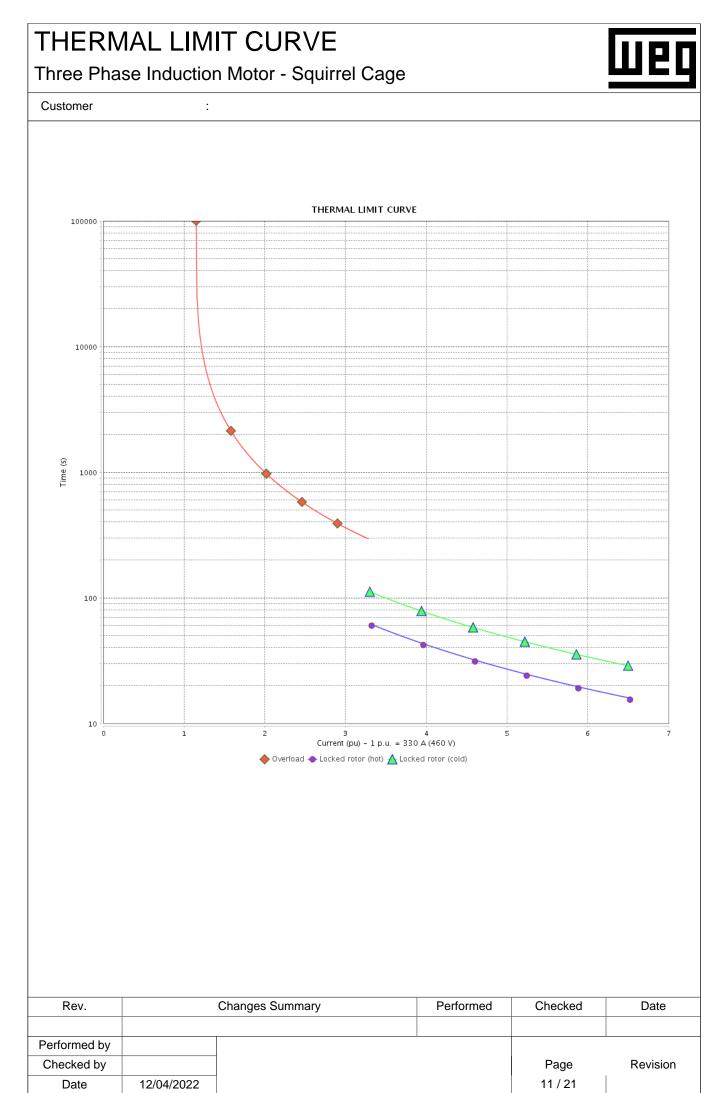
### Customer



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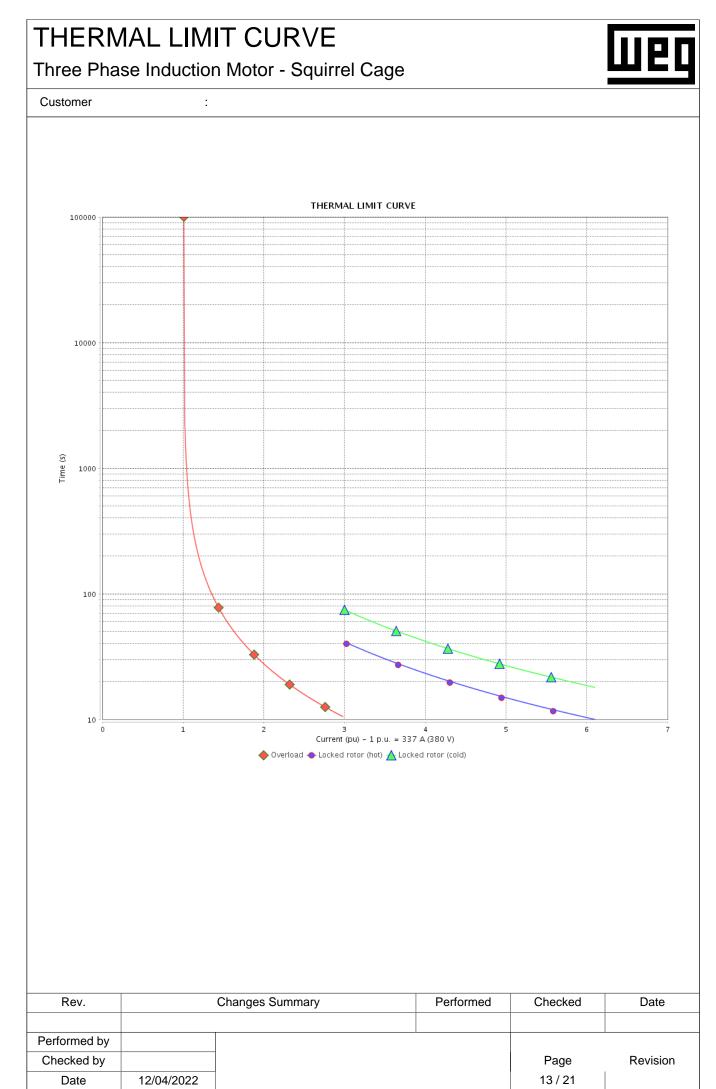
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Customer	:							
Product line	: NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	12222432 30018ET3G	RB449T-W22			
Performance	: 460 V 60 Hz 4P							
Rated current LRC	: 330 A : 6.5	Duty cycl		: 89.6 sq.ft.lb : Cont.(S1)				
Rated torque Locked rotor torq		Insulation Service fa	actor	: F : 1.15				
Breakdown torqu Rated speed	: 1780 rpm	Temperat Design	ure 1156	: 80 K : B				
Heating constant Cooling constant								
Rev.	Changes Summary	1	Performed	Checked	Date			

Performed by					
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Date	12/04/2022			10 / 21	
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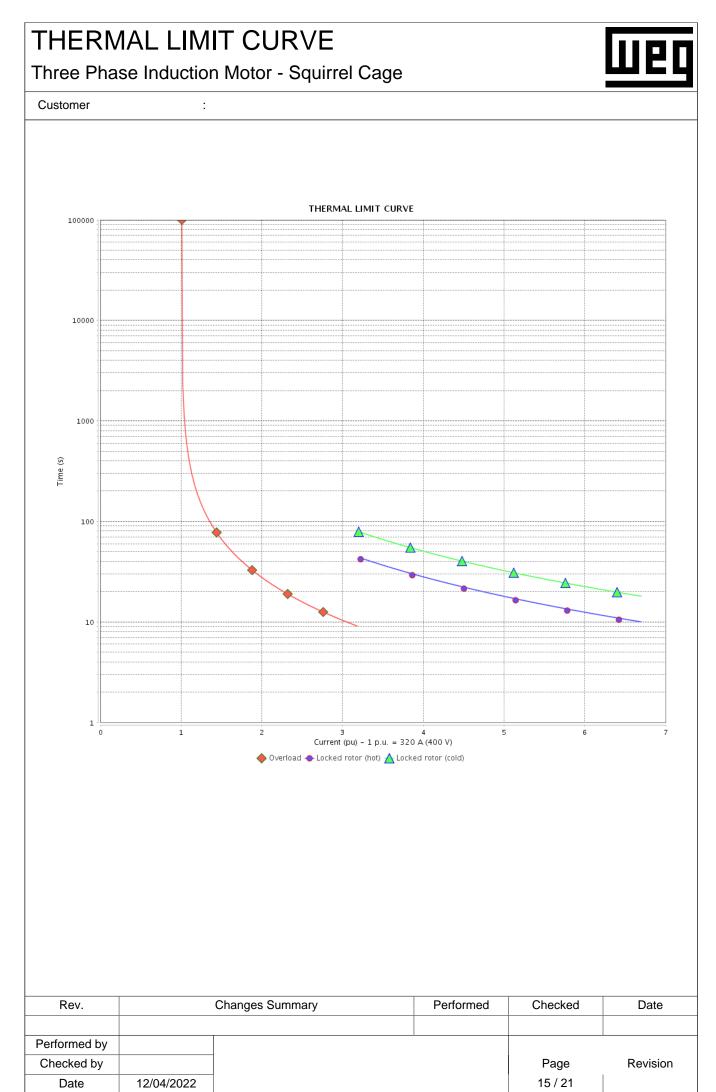
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Customer		:						
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12222432 30018ET3G	RB449T-W22		
Performance		: 380 V 50 Hz 4P IE3						
Rated current		: 337 A		f inertia (J)	: 89.6 sq.ft.lb			
LRC : 6.1 Rated torque : 887 ft.lb		: 6.1 : 887 ft.lb	Duty cycle		: Cont.(S1) : F			
Locked rotor tore	lue	: 210 %	Service fa	ctor	: 1.00			
Breakdown torque : 220 % Rated speed : 1480 rpm		Temperatu Design	ure rise	: 105 K : B				
Heating constant Cooling constant								
Rev.		Changes Summary	 	Performed	Checked	Date		

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THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Customer	:							
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12222432 30018ET3G	RB449T-W22			
Performance Rated current	: 400 V 50 Hz 4P IE3 : 320 A	Moment	of inertia (J)	: 89.6 sq.ft.lb				
LRC	: 6.7	Duty cycle	Э	: Cont.(S1)				
Rated torque Locked rotor torq		Insulation Service fa	actor	: F : 1.00				
Breakdown torqu Rated speed	e : 250 % : 1480 rpm	Temperat	ure rise	: 105 K : B				
Heating constant								
Cooling constant			Dorformed	Checked	Deta			
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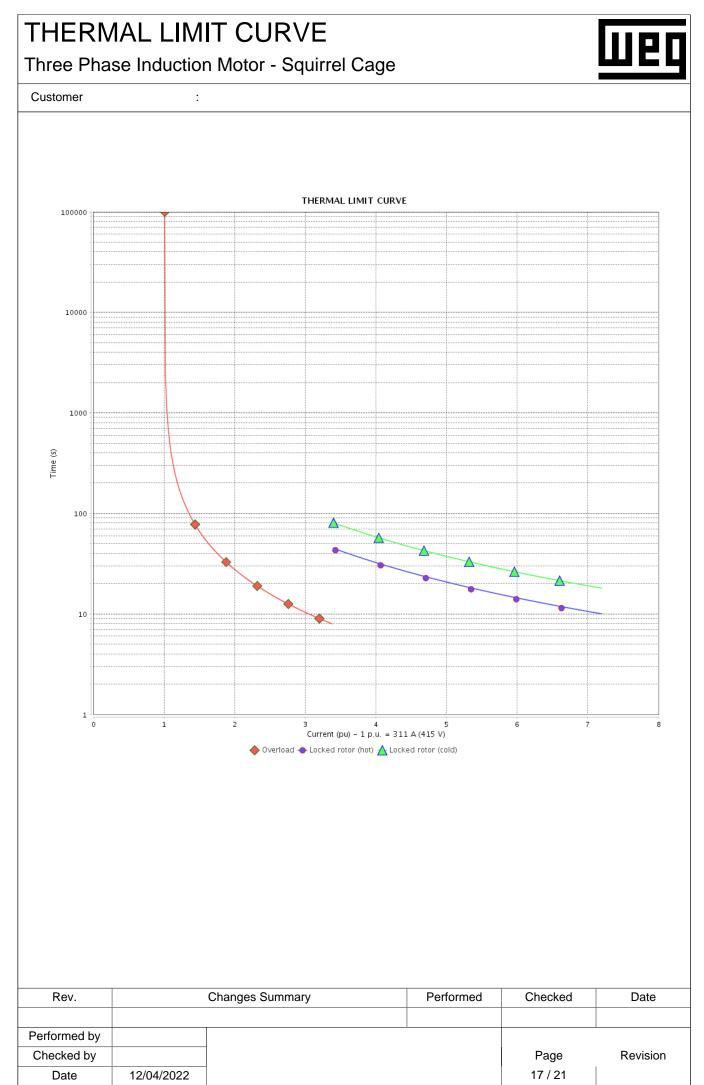
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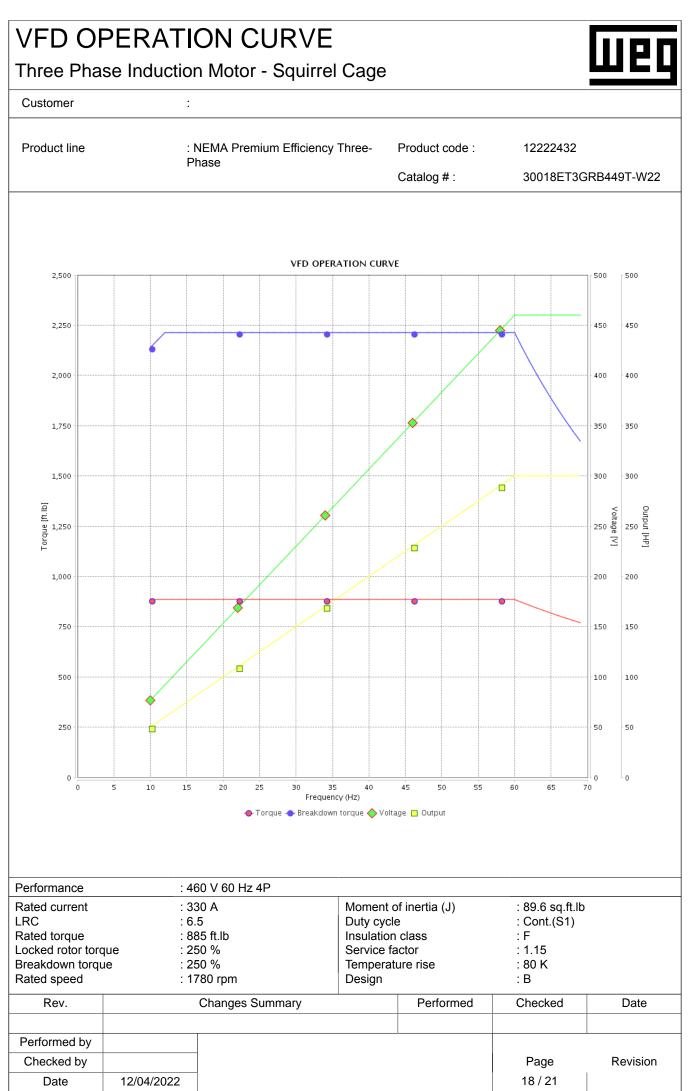


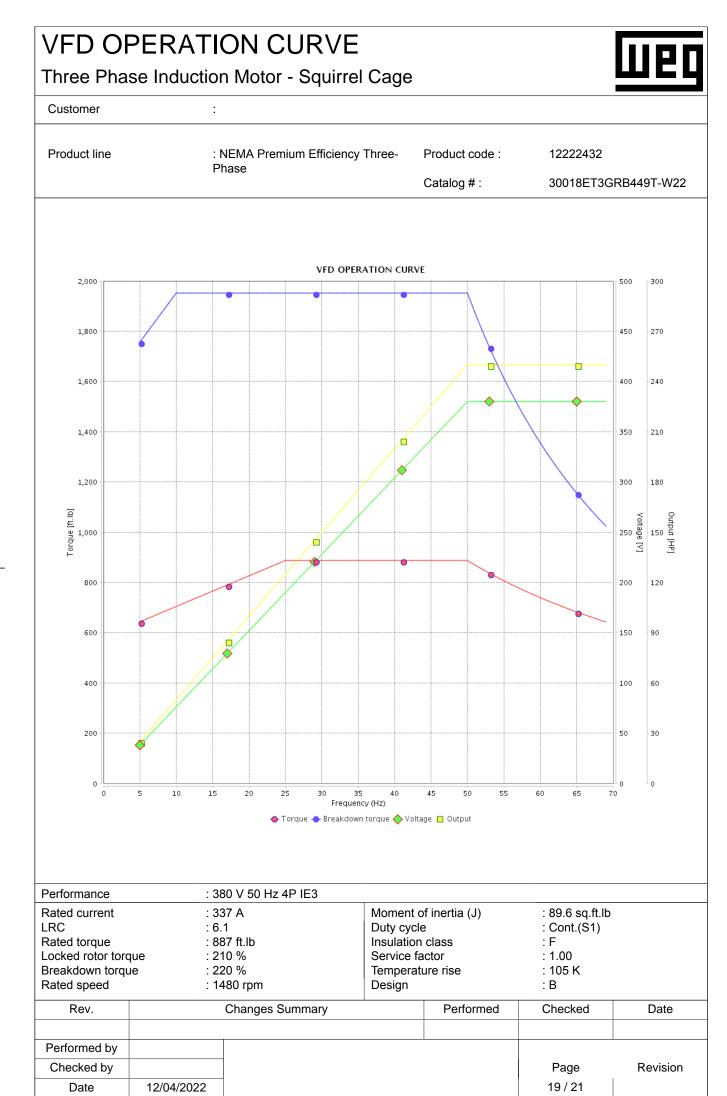
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THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Customer		:						
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12222432 30018ET3G	RB449T-W22		
Dorformanaa								
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que	: 415 V 50 Hz 4P IE3 : 311 A : 7.2 : 884 ft.lb : 260 % : 270 % : 1485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B			
Heating constant								
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date		

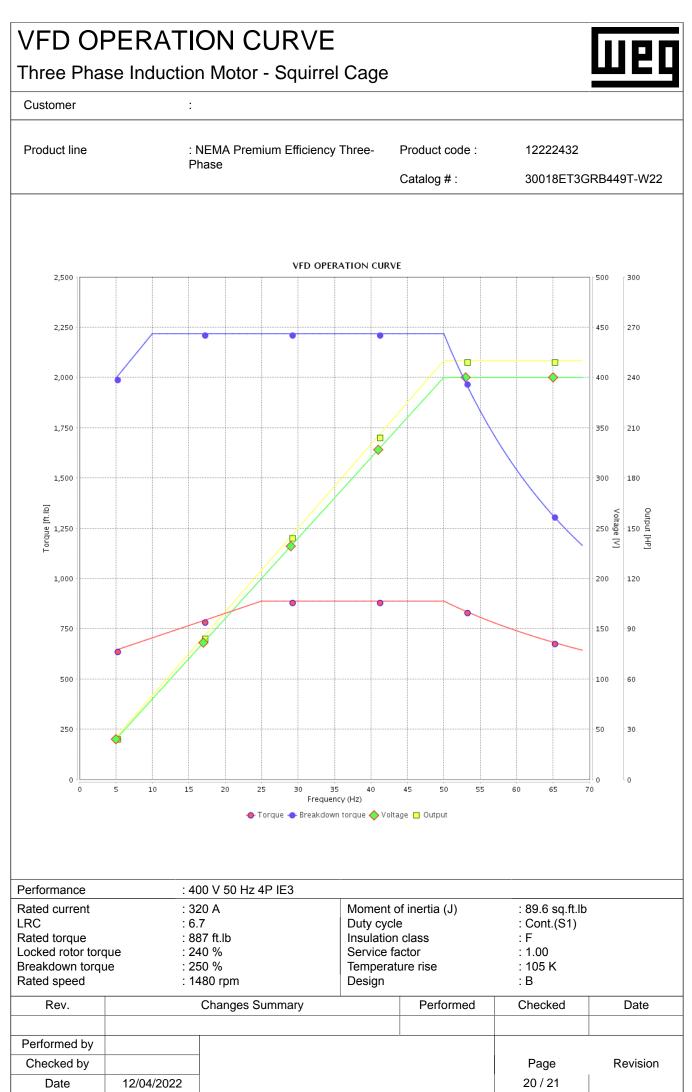
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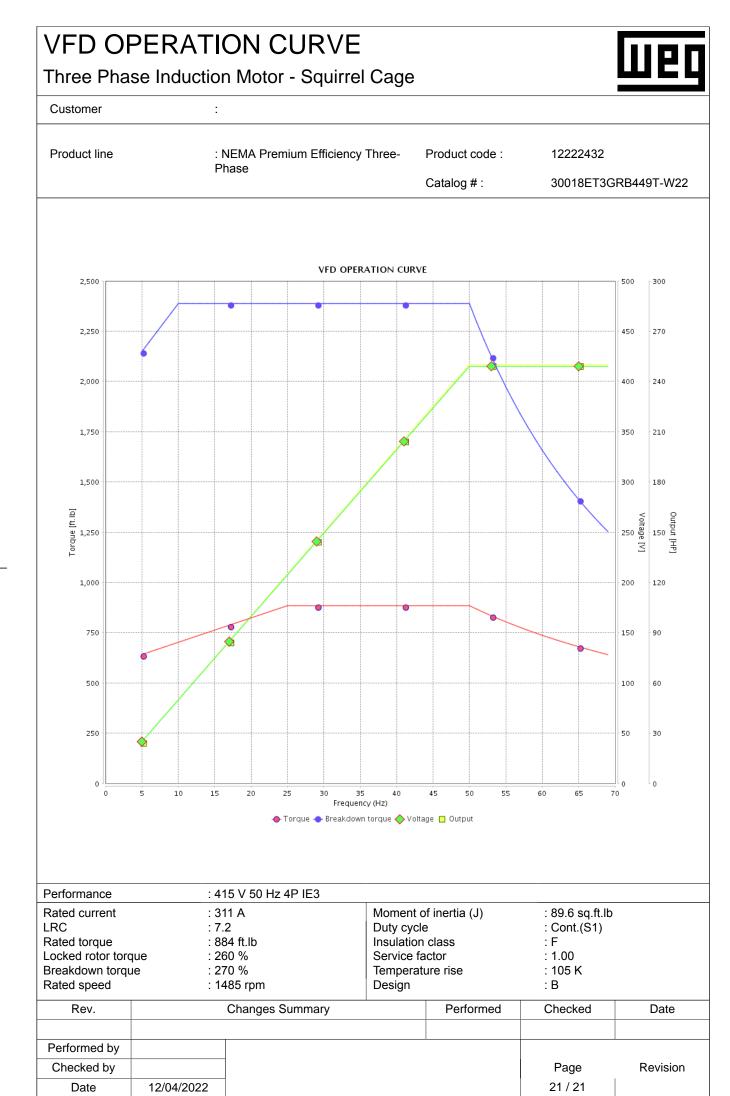




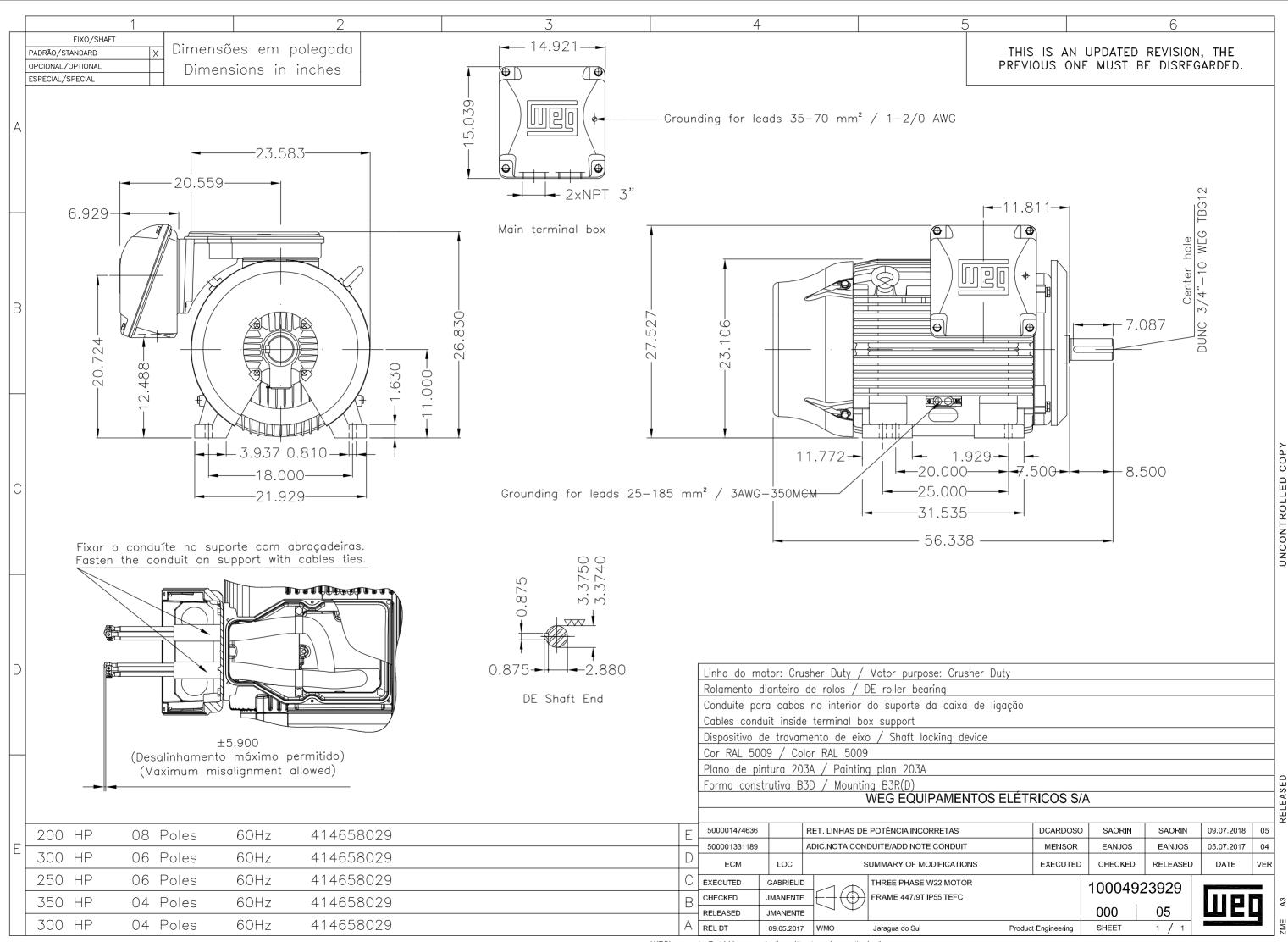
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Produc	t Engineering	SHEET	1 / 1		

		Premium W22					PT9	FOR SAFE AREA Mod.TE1BF0X0N CC029A	C Energy Vertile	d Class II, Div 2, Gr	A, B, C and D - T C - T3 F and G - T3C	3
0	MODEL 30018ET3	GRB449T–W22								For use on PWM: VT 1000:1, CT 6:1	Gr. A, B, C, D and 1.00SF - T3	F,
MEXICO 432	Inverter Duty Moto Severe Duty	)r								PART-WINDING	WYE-DE	LTA
MEX 432	PH3 60Hz	Fr. 447/9T	1000m.a.s.l.	IP55	TEFC	2888lb				START RUN	START	RUN 5112 <sub>0</sub> 710 <sub>0</sub> 711
5 Z	V 460			A 330						්ත් <b>8</b> ් 19 ් 17 ් 18 ්	19   \T6 \T4 \T5   <	16 JT4 JT5
- 2	HP 300			kW 220	)					016 014 015 016 014 0 011 012 013 011 012 0 01 02 03 01 02 0	15 017 018 019 0 13 011 012 013 0 6 11 12 13 1	517 518 519 511 512 513 11 52 53
MADE 12	SF 1.15			SFA 37	9					NU-322-C3 (60g)	6  11 12 13  1	1 12 13
Ň	RPM 1780			PF 0.	87				E I	,		
	AMB 40°C		INS (	cl. F DT	80K	NEMA NOM EFF	96.2%		≝→	6319-C3 (45g)		
	DUTY CONT.		DES	B Code	G				Ŕ	MOBIL POLYREX EM	(4000h)	
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