DATA SHEET

Three Phase Induction Motor - Squirrel Cage

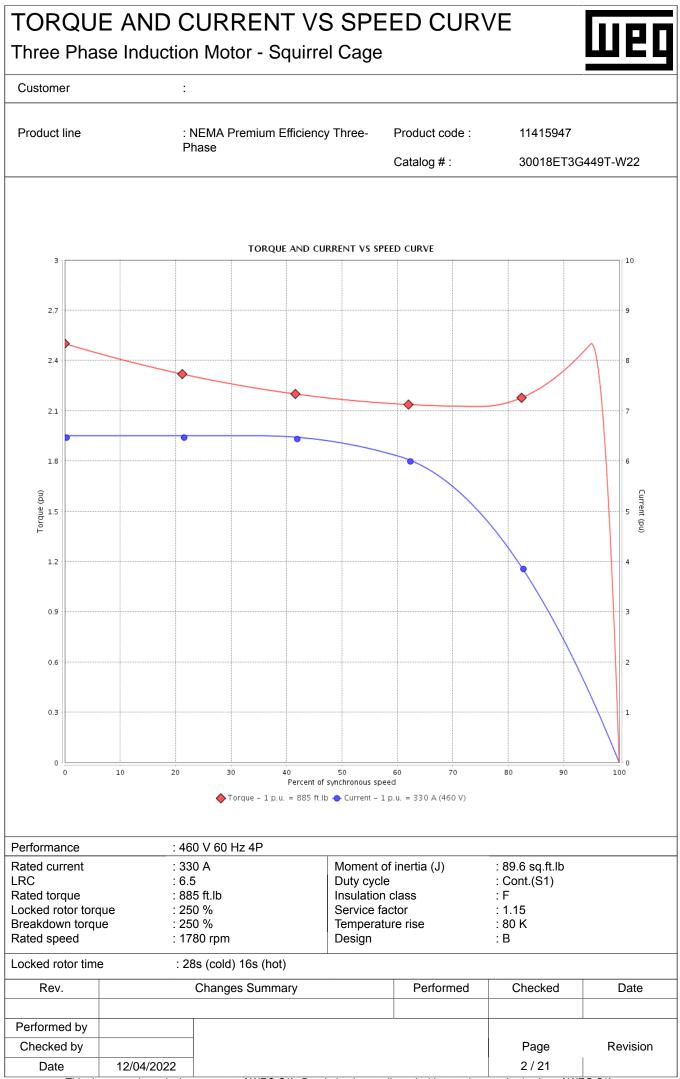
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Customer

Product line		: NEMA Premium Efficiency Three- Product code : Phase			oduct code :	11415947			
		Flidse		Са	italog # :	30018E	T3G449T-W22		
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 447/9T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B	: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 2859 lb : 89.6 sq.ft.lb		
Output [HP]		300		250	25	i0	250		
Poles		4		4	4	-	4		
Frequency [Hz]		60		50	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)		
No load current [A	1	105		104	11		116		
Rated speed [RPN		1780		1480	148		1485		
Slip [%]		1.11		1.33	1.3		1.00		
Rated torque [ft.lb]		885		887	88		884		
ocked rotor torqu		250		210	24		260		
Breakdown torque		250		220	25		200		
Service factor	[,,]	1.15		1.00	1.0		1.00		
Temperature rise		80 K		105 K	105		105 K		
Locked rotor time		28s (cold) 16s (hot)	185 (0	cold) 10s (hot			18s (cold) 10s (hot)		
Noise level ²					71.0 c		71.0 dB(A)		
	25%	95.7	71.0 dB(A) 95.5		95		94.9		
	50%	95.8	95.8		95		95.4		
Efficiency (%)	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		
	50%	0.32		0.33	0.7		0.73		
Power Factor	75%	0.84		0.84	0.8		0.82		
	100%	0.87		0.87	0.0		0.86		
Bearing type Sealing Lubrication interv Lubricant amoun		: 6322 C3 63 : WSeal W : 6000 h 80	6322 C3 6319 C3 Ma WSeal WSeal Ma 6000 h 8000 h			Foundation loads Max. traction : 4934 lb Max. compression : 7793 lb			
Lubricant type Notes		: Mobil Polyrex E	ΞM						
must be eliminate (1) Looking the m (2) Measured at 1	d. otor from the m and with t veight subjec ocess.	cel the previous one, where shaft end. olerance of +3dB(A). t to changes after	hich		•		ts with sinusoidal stipulated in NEMA		
Rev.		Changes Summary	,		Performed	Checked	I Date		
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Checked by						Page	Revision		
	12/04/2020	2				1/21			
	Date 12/04/2022								

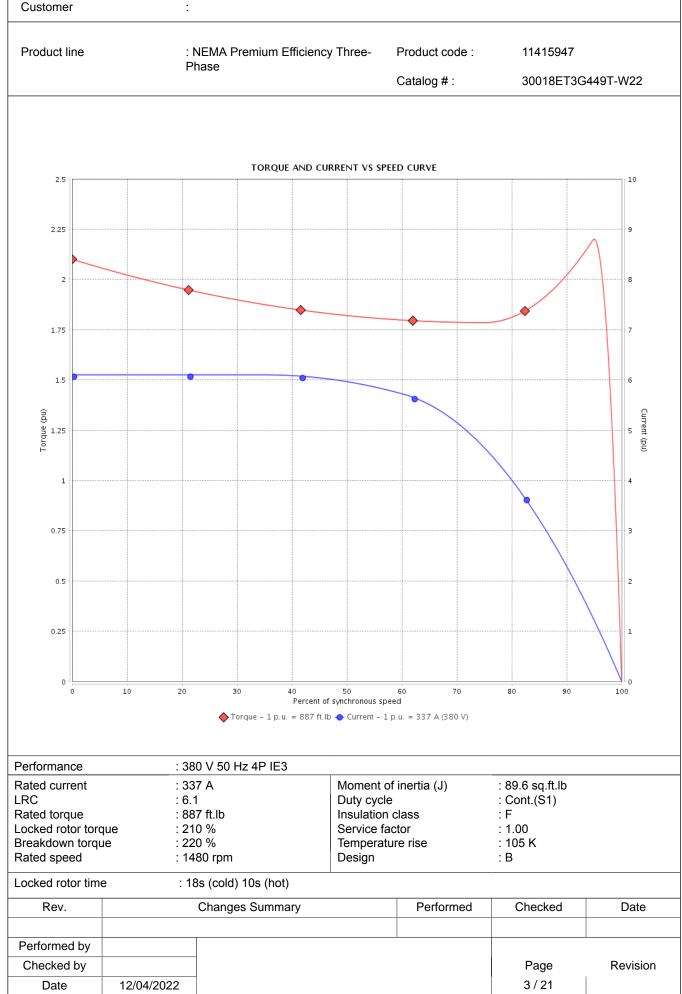
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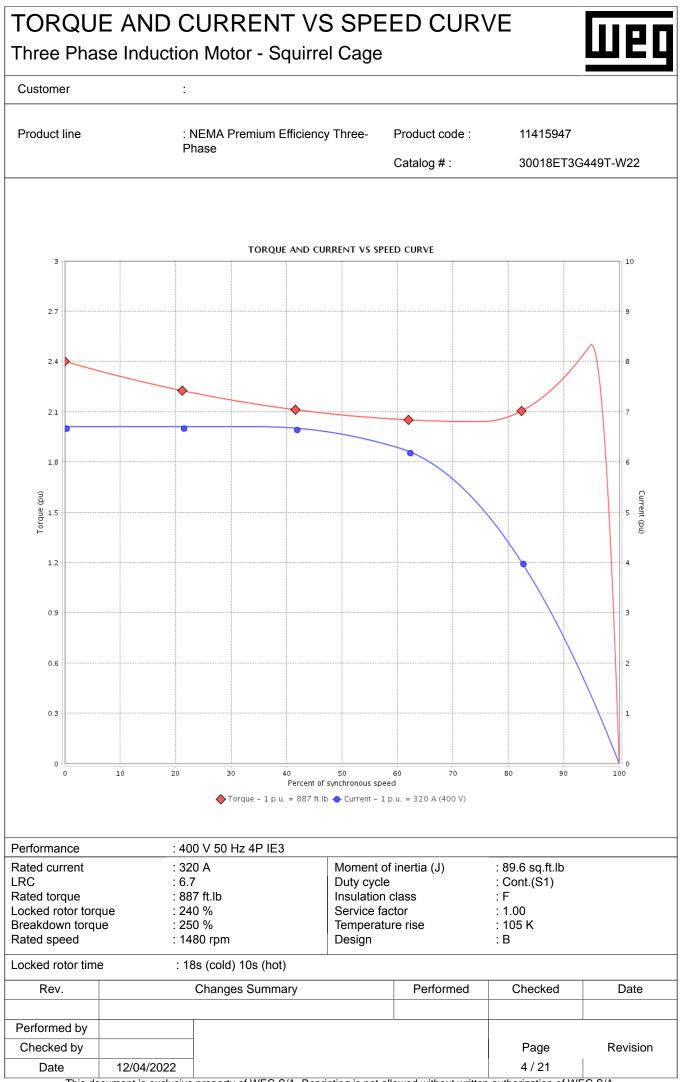
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





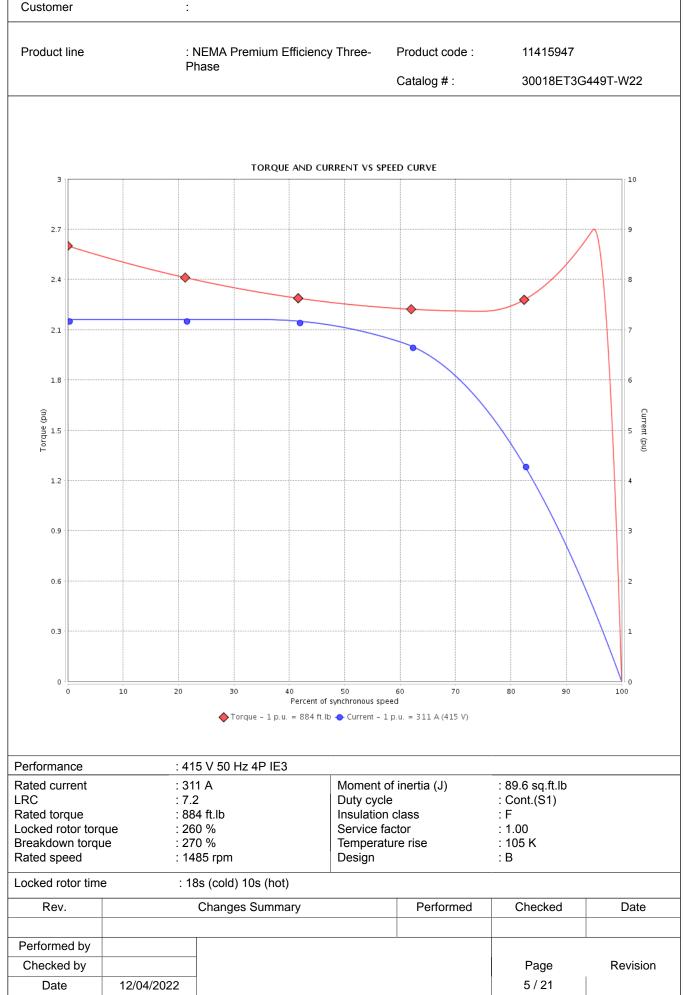
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TORQUE AND CURRENT VS SPEED CURVE

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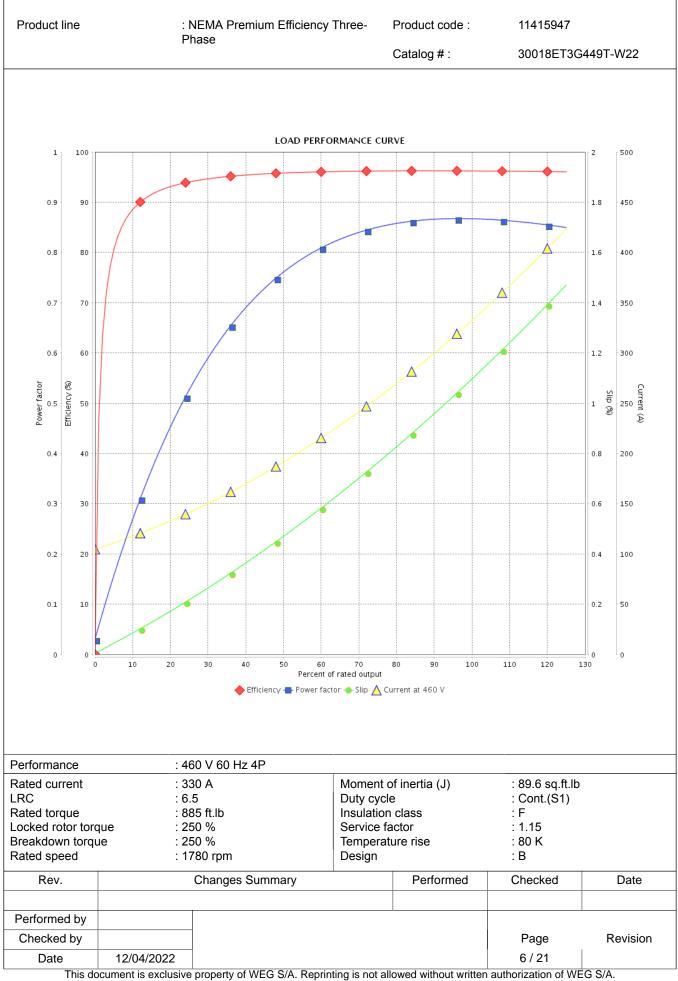
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Three Phase Induction Motor - Squirrel Cage

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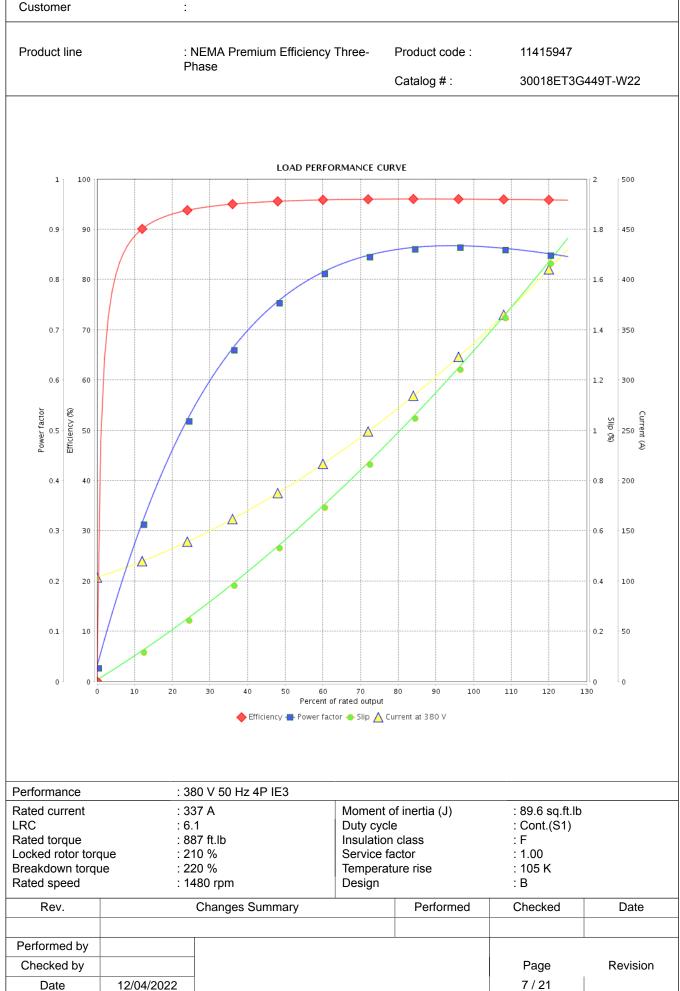
Customer



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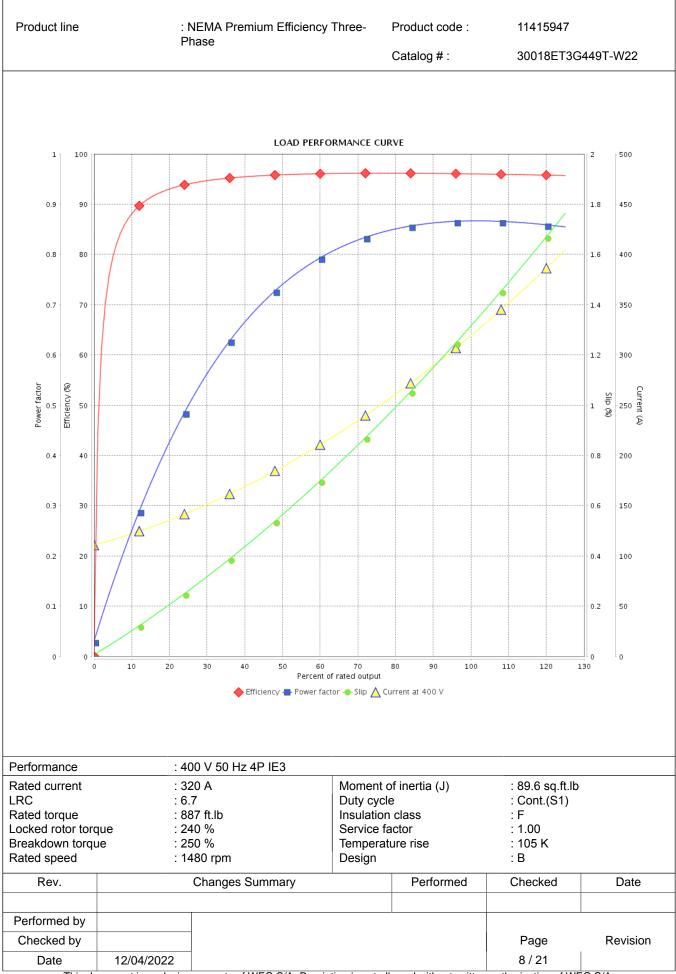
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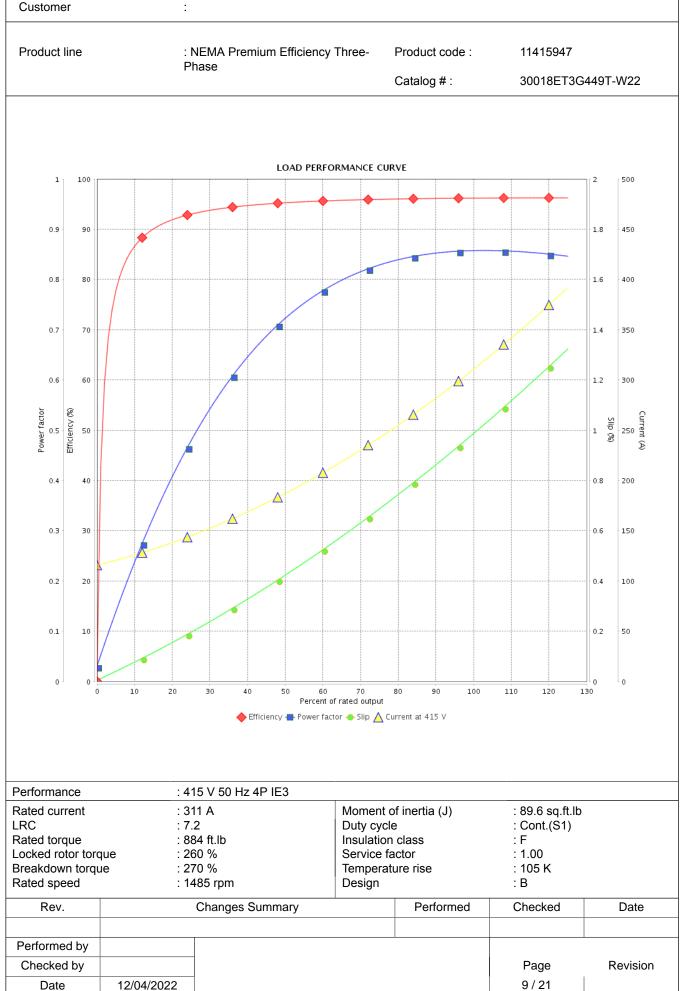


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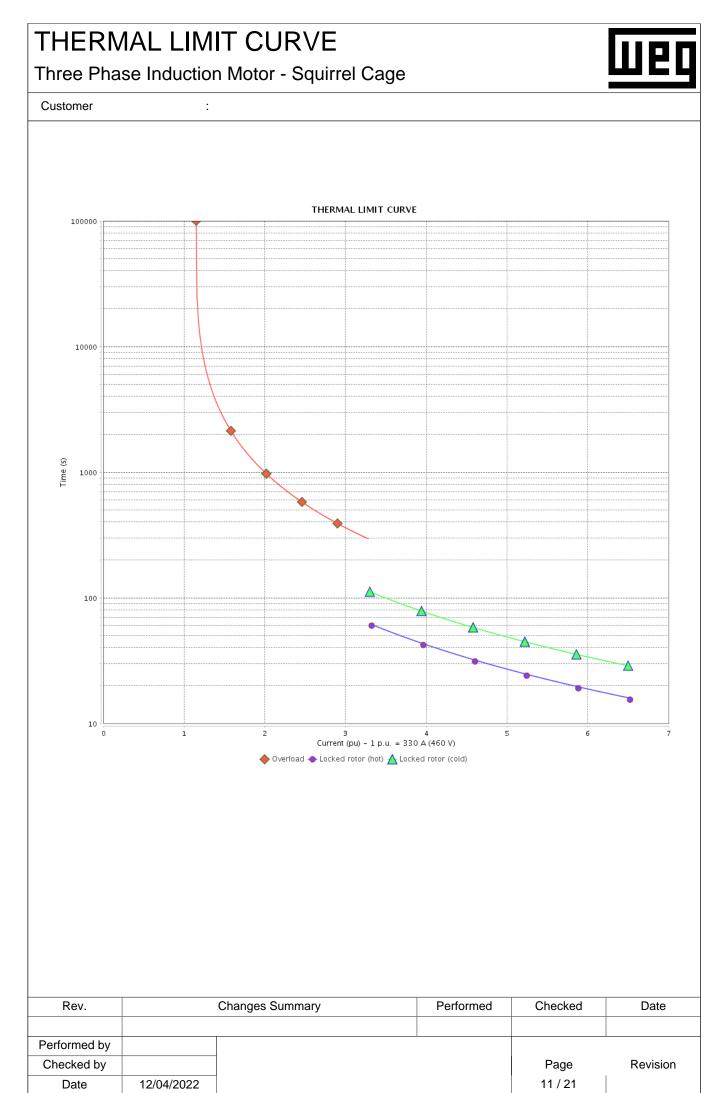
THERMAL LIMIT CURVE	
Three Phase Induction Motor - Squirrel Cage	

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Customer

Product line	: NEMA Premium Efficiency	Three-	Product code :	11415947	
	Phase		Catalog # :	30018ET3G4	49T-W22
Performance Rated current	: 460 V 60 Hz 4P : 330 A	Moment	of inertia (J)	: 89.6 sq.ft.lb	
LRC	: 6.5	Duty cycl	e	: Cont.(S1)	
Rated torque Locked rotor torque	: 885 ft.lb : 250 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 250 %	Temperat		: 80 K	
Rated speed	: 1780 rpm	Design		: B	
Heating constant					
Cooling constant			· · · ·		
Rev.	Changes Summary		Performed	Checked	Date
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Checked by				Page	Revision
Date 12/04/202	22			10 / 21	
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THERMAL LIN	MIT CURVE
Three Phase Induct	ion Motor - Squirrel Cage
Customer	:

Product code :

Catalog # :

: NEMA Premium Efficiency Three-Phase

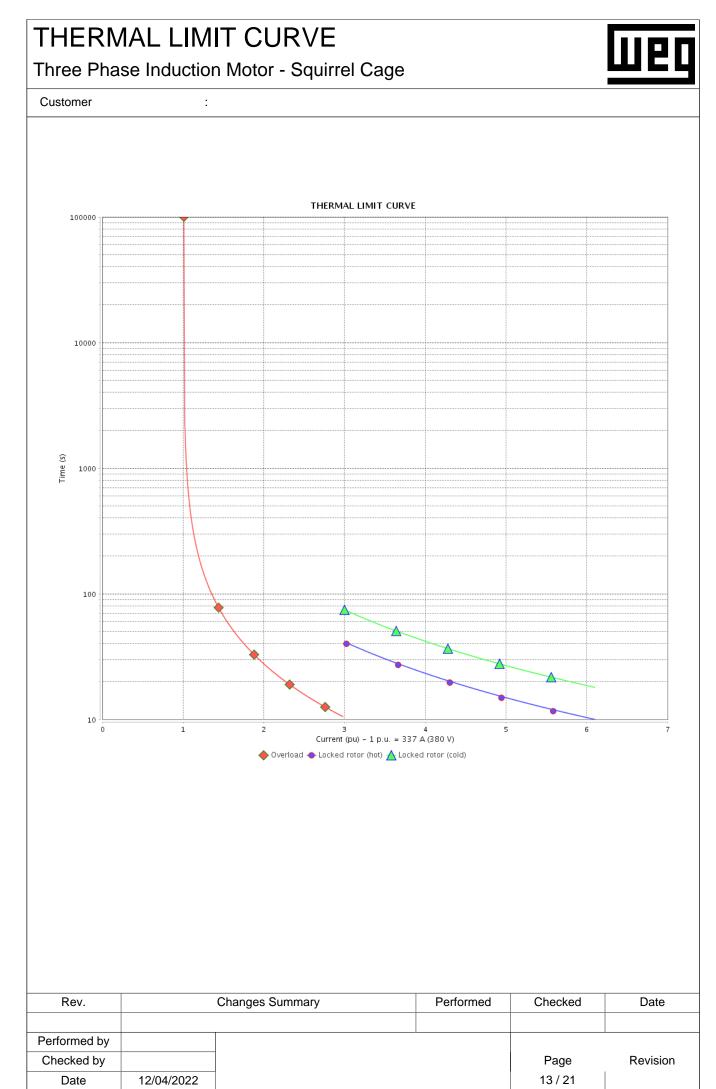
Product line



11415947

30018ET3G449T-W22

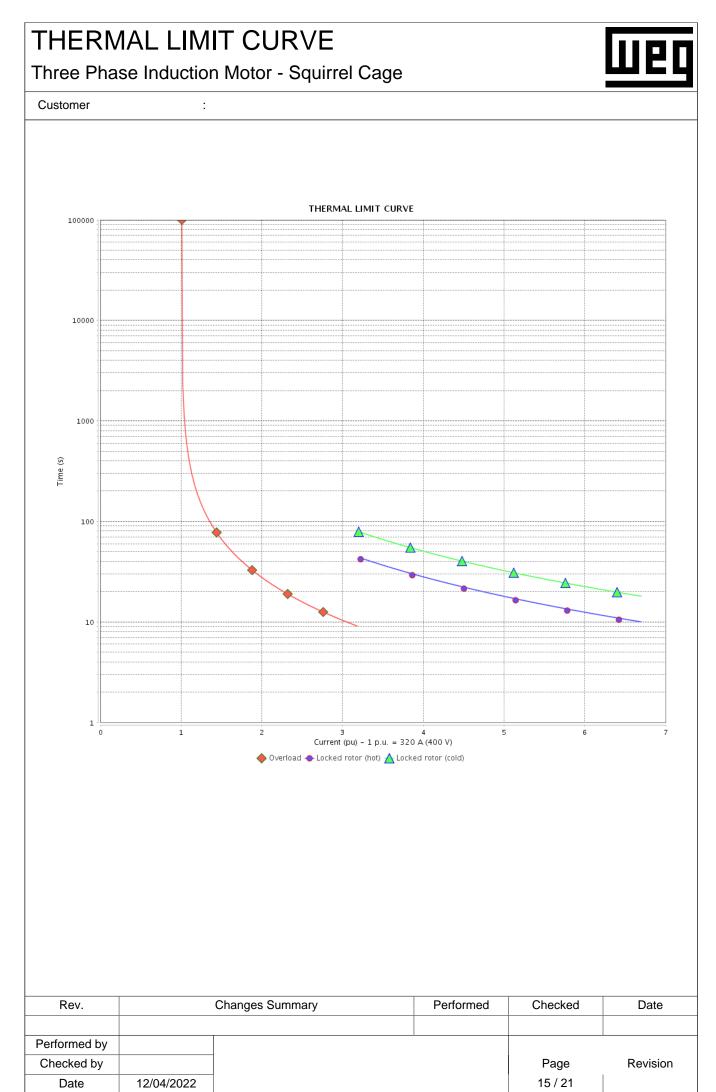
Performance	: 3	380 V 50 Hz 4P IE3				
Rated current	: 3	337 A	Moment of ine	tia (J)	: 89.6 sq.ft.lb	
Rated current _RC	: 3 : 6	337 A 5.1	Duty cycle		: Cont.(S1)	
Rated current .RC Rated torque	: : : 6 : 8	337 A 5.1 887 ft.lb	Duty cycle Insulation clas		: Cont.(S1) : F	
Rated current .RC Rated torque .ocked rotor tor	: 3 : 6 : 8 que : 2	337 A 5.1	Duty cycle	5	: Cont.(S1) : F : 1.00 : 105 K	
Rated current _RC Rated torque _ocked rotor tor Breakdown torq	: : : : que : : ue : :2	337 A 5.1 887 ft.lb 210 %	Duty cycle Insulation clas Service factor	5	: Cont.(S1) : F : 1.00	
	: 3 : 6 : 8 : 2 ue : 2 : 1	337 A 3.1 387 ft.lb 210 % 220 %	Duty cycle Insulation clas Service factor Temperature ri	5	: Cont.(S1) : F : 1.00 : 105 K	
Rated current _RC Rated torque _ocked rotor tor Breakdown torq Rated speed Heating constar	: 3 : 6 : 8 : 2 ue : 2 : 7 t	337 A 3.1 387 ft.lb 210 % 220 %	Duty cycle Insulation clas Service factor Temperature ri	5	: Cont.(S1) : F : 1.00 : 105 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	: 3 : 6 : 8 : 2 ue : 2 : 7 t	337 A 3.1 387 ft.lb 210 % 220 %	Duty cycle Insulation clas Service factor Temperature ri Design	5	: Cont.(S1) : F : 1.00 : 105 K	Date
Rated current _RC Rated torque _ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 3 : 6 : 8 : 2 ue : 2 : 7 t	337 A 3.1 387 ft.lb 210 % 220 % 480 rpm	Duty cycle Insulation clas Service factor Temperature ri Design	se	: Cont.(S1) : F : 1.00 : 105 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 3 : 6 : 8 : 2 ue : 2 : 7 t	337 A 3.1 387 ft.lb 210 % 220 % 480 rpm	Duty cycle Insulation clas Service factor Temperature ri Design	se	: Cont.(S1) : F : 1.00 : 105 K : B	Date



THERMA	AL LIMIT (CURVE		
Three Phase	Induction Mo	otor - Squirrel	Cage	
Customer	:			

ШВ

Product line		NEMA Premium Efficiency	Three-	Product code :	11415947		
	ľ	Phase		Catalog # :	30018ET3G44	9T-W22	
Performance	• .	400 V 50 Hz 4P IE3					
Rated current	::	320 A		f inertia (J)	: 89.6 sq.ft.lb		
LRC Rated torque		6.7 887 ft.lb	Duty cycle Insulation		: Cont.(S1) : F		
Locked rotor toro	que :2	240 %	Service fa	ctor	: 1.00		
Breakdown torqu Rated speed		250 % 1480 rpm	Temperatu Design	ire rise	: 105 K : B		
Heating constant		•	5				
Cooling constant							
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Date	12/04/2022	-			14 / 21	-	
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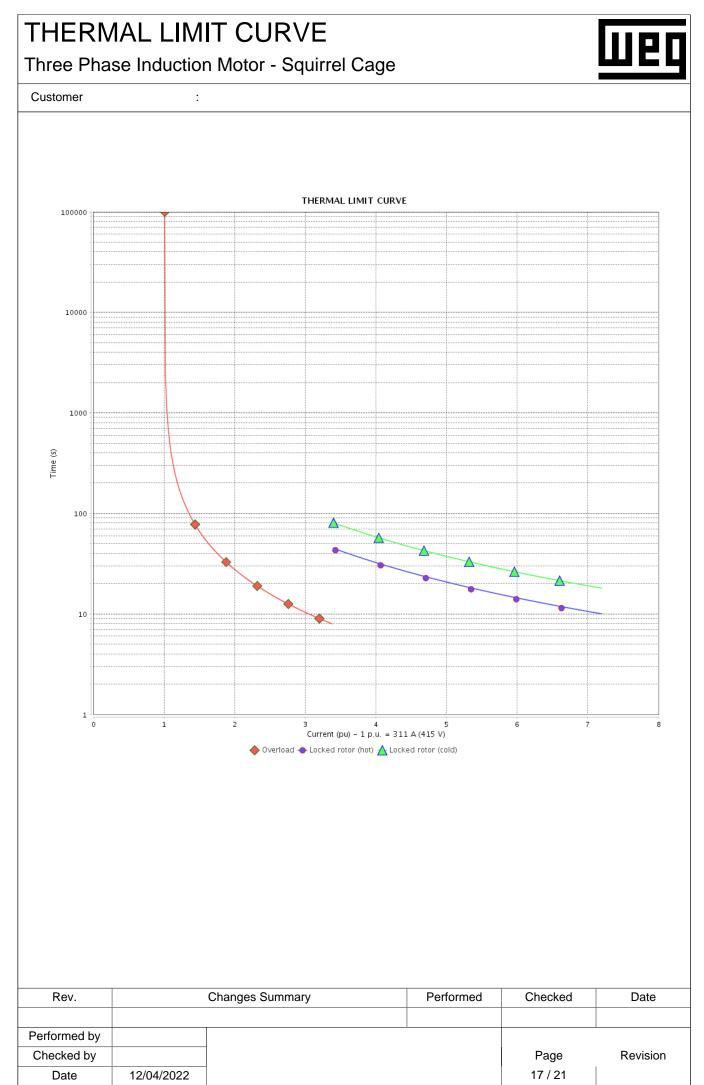


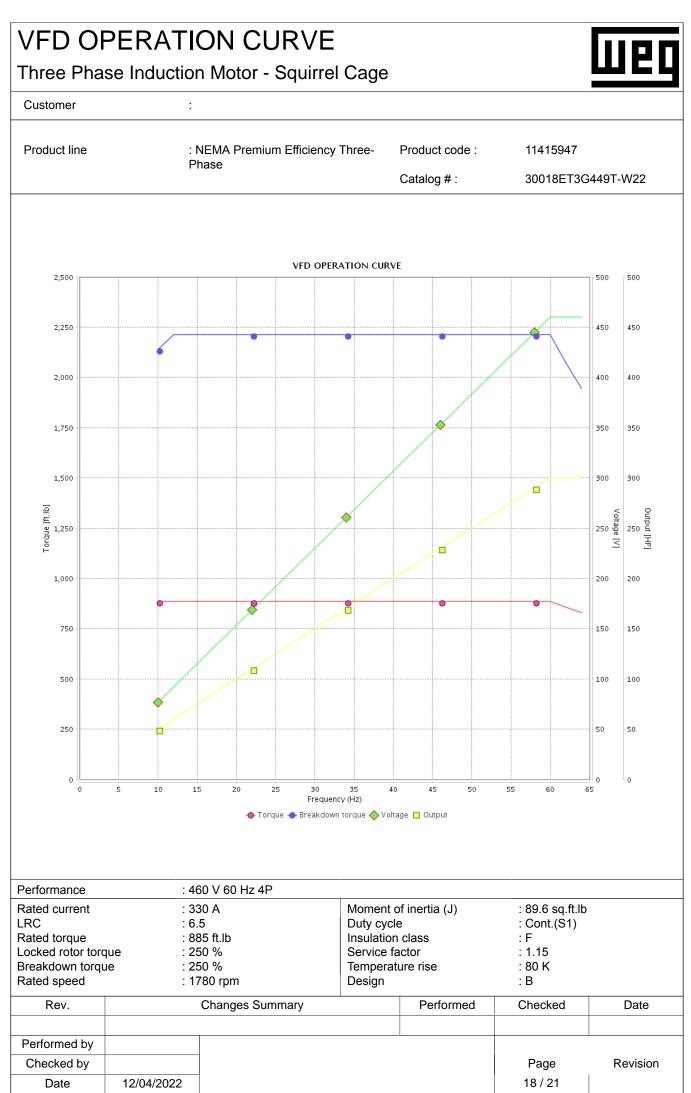
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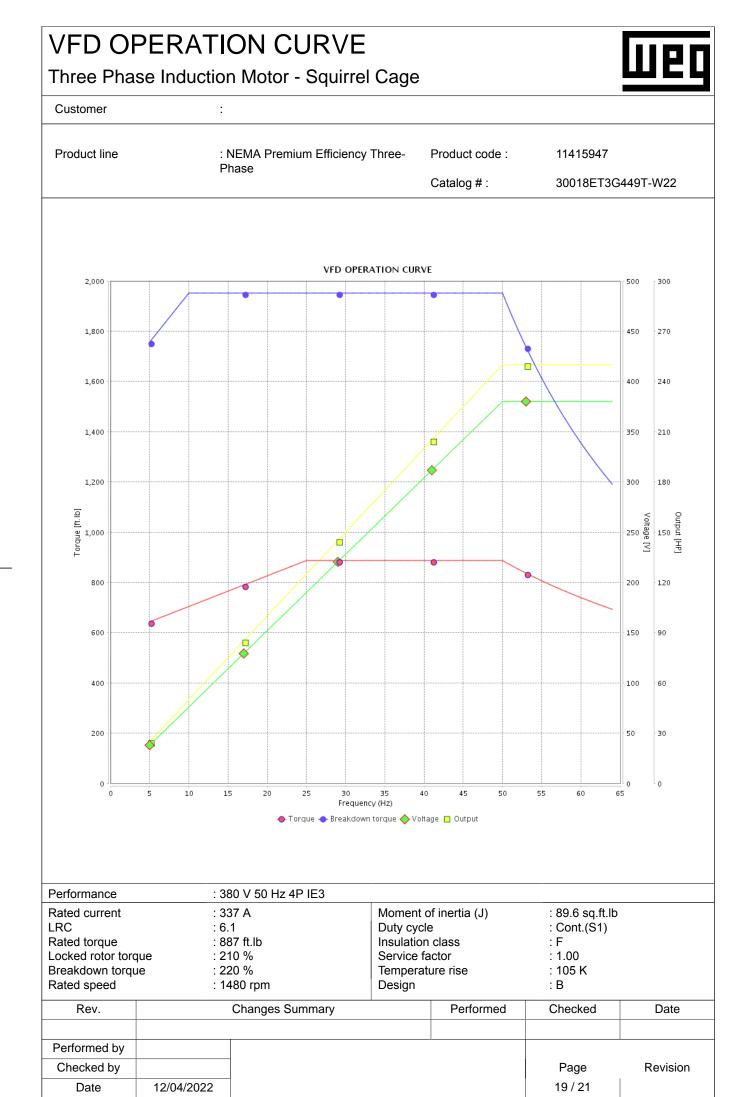
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Three Phase I	nduction Mot	tor - Squirrel Ca	age	
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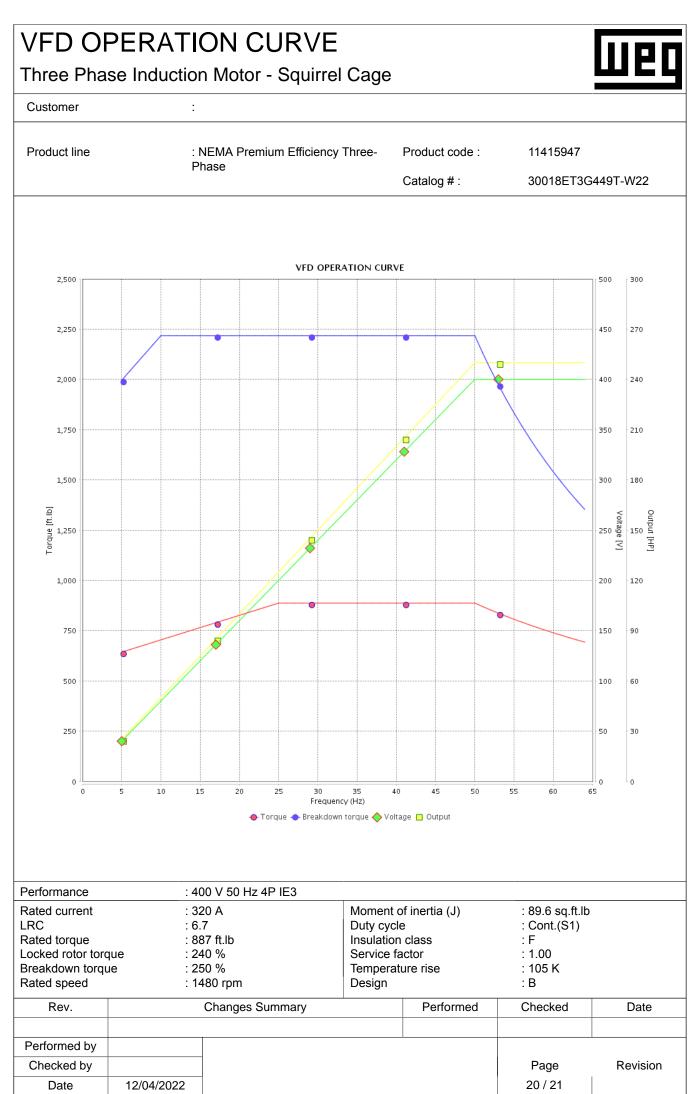


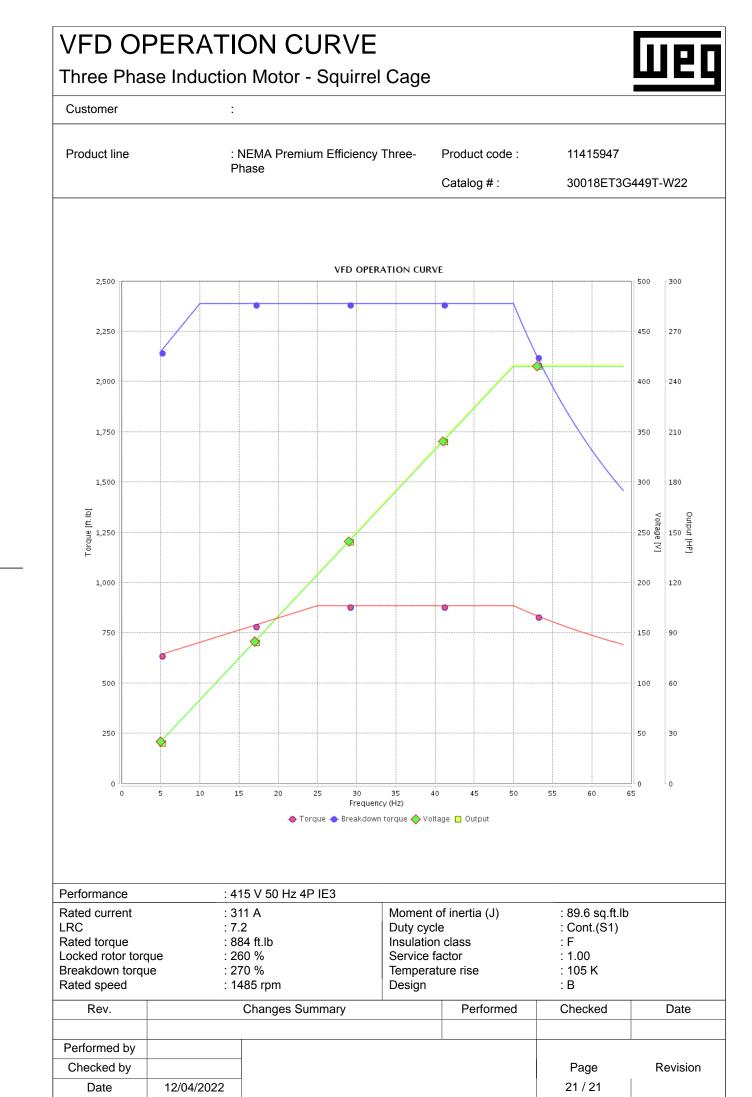
Product line	1 :	NEMA Premium Efficiency	Three-	Product code :	11415947	
	PI	nase		Catalog # :	30018ET3G	449T-W22
						++31-W22
Performance	: 41	15 V 50 Hz 4P IE3			·	
Rated current		11 A		of inertia (J)	: 89.6 sq.ft.lb	
LRC Rated torque	: 7. : 88	2 34 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tore	que : 26	60 %	Service fa	actor	: 1.00	
Breakdown torqu	ue : 27	70 %	Temperat	ure rise	: 105 K	
Rated speed	: 14	185 rpm	Design		: B	
Heating constant						
Cooling constant						
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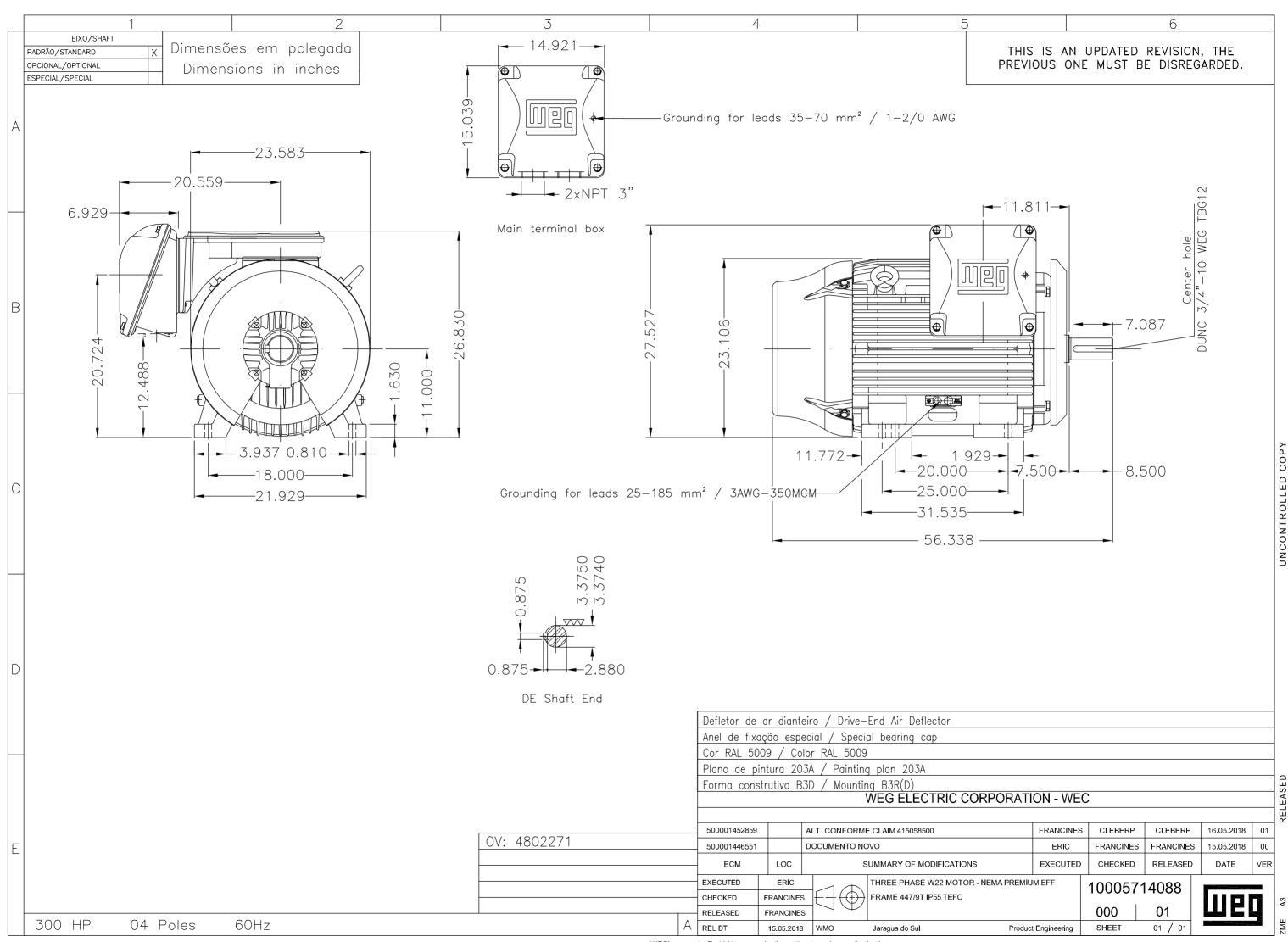












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		Premium W22				FOR SAFE AREA Mod.TE1BF0X0N CC029A	C C C C C C C C C C C C C C C C C C C	Class II, Div 2, Gr F	B, C and D - T3 - T3 and G - T3C
0	MODEL 30018ET3							For use on PWM: Gr. VT 1000:1, CT 6:1, 1.	A, B, C, D and F, 00SF - T3
× ×	Severe Duty	r						- PART-WINDING	WYE-DELTA
MEXICO 947	PH3 60Hz	Fr. 447/9T	1000m.a.s.l.	IP55 TEF	C 2862lb			START RUN oT12oT10oT11 0T12oT10oT11	START RUN oT12oT10oT11 oT12oT10oT11
ũ	V 460			A 330			-	dr7 dr8 dr9 dr7 dr8 dr9	dī6 dī4 dī5 dī6 dī4 dī5
N 141	HP 300			kW 220				016 014 015 016 014 015 011 012 013 011 012 013 01 02 03 011 02 03	077 078 079 077 078 079 071 072 073 071 072 073 071 072 073 071 072 073 071 072 073
MADE 11	SF 1.15			SFA 379					
MA	RPM 1780			PF 0.87			∄→	6322–C3 (60g)	
	AMB 40°C		INS (cl. F DT80K	NEMA NOM EFF 96	.2%	≌→	6319–C3 (45g)	
	DUTY CONT.		DES	B Code	G		\/	MOBIL POLYREX EM (6	000h)
							X		
•									·