DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Efficiency Three- Phase			Product code :		14296347	
		1 11030		Ca	atalog # :	00512X	T3E215TC	
Insulation class:Duty cycle:Ambient temperature:Altitude:Protection degree:		: 213/5TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		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 : 224 lb : 1.47 sq.ft.lb		
Output [HP]		5		5	5	5	5	
Poles		6		6		5	6	
Frequency [Hz]		60		50	5	0	50	
Rated voltage [V]		230/460		380	4(00	415	
Rated current [A]		13.7/6.83		8.10	7.	82	7.55	
L. R. Amperes [A]		92.9/46.4		44.5	47		49.1	
LRC [A]		6.8x(Code J)	5.5	5x(Code G)	6.1x(C	ode H)	6.5x(Code H)	
No load current [A	.]	6.90/3.45		3.41	3.0		3.90	
Rated speed [RPN		1170		960		65	970	
Slip [%]		2.50		4.00		50	3.00	
Rated torque [ft.lb]]	22.4		27.4		7.2	27.1	
Locked rotor torqu	ie [%]	170		140	16	60	190	
Breakdown torque		260	1	200	22	29	250	
Service factor		1.15				00	1.00	
Temperature rise		80 K	80 K			K	80 K	
Locked rotor time		102s (cold) 57s (hot)	54s (cold) 30s (he				54s (cold) 30s (hot)	
Noise level ²		55.0 dB(A)	5	53.0 dB(A)	53.0	dB(A)	53.0 dB(A)	
	25%	88.2	89.8		89		87.2	
Efficiency (%)	50%	88.5		88.5	88	8.5	87.5	
Efficiency (%)	75%	89.5		88.5	88		88.5	
	100%	89.5		86.8	87		88.5	
	25%	0.34		0.40	0.5		0.34	
Power Factor	50%	0.58		0.65	0.		0.58	
	75%	0.70		0.76		73	0.71	
	100%	0.76		0.80	0.	78	0.77	
Bearing type		: 6308 2RS 620	<u>ive end</u> 7 2RS	Max. traction	on	: 270 lb		
Sealing		: Oil Seal Lip	Seal	Max. comp	pression	: 493 lb		
Lubrication interv		-	-					
Lubricant amoun	IT		-					
Lubricant type		: Mobil Polyrex E						
Notes USABLE @208V	15.1A SF 1.	15 SFA 17.4A						
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	ncel the previous one, where shaft end. olerance of +3dB(A). ot to changes after	hich				s with sinusoidal stipulated in NEMA	
Rev.		Changes Summary			Performed	Checked	Date	
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Thermal protection						
ID	Application	Туре	Quantity		emperature	
1	Winding	Thermostat - 2 wires	1 x Phase	15	5 °C	
Rev.	Chan	ges Summary	Performed	Checked	Date	
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TORQUE AND CURRENT VS SPEED CURVE

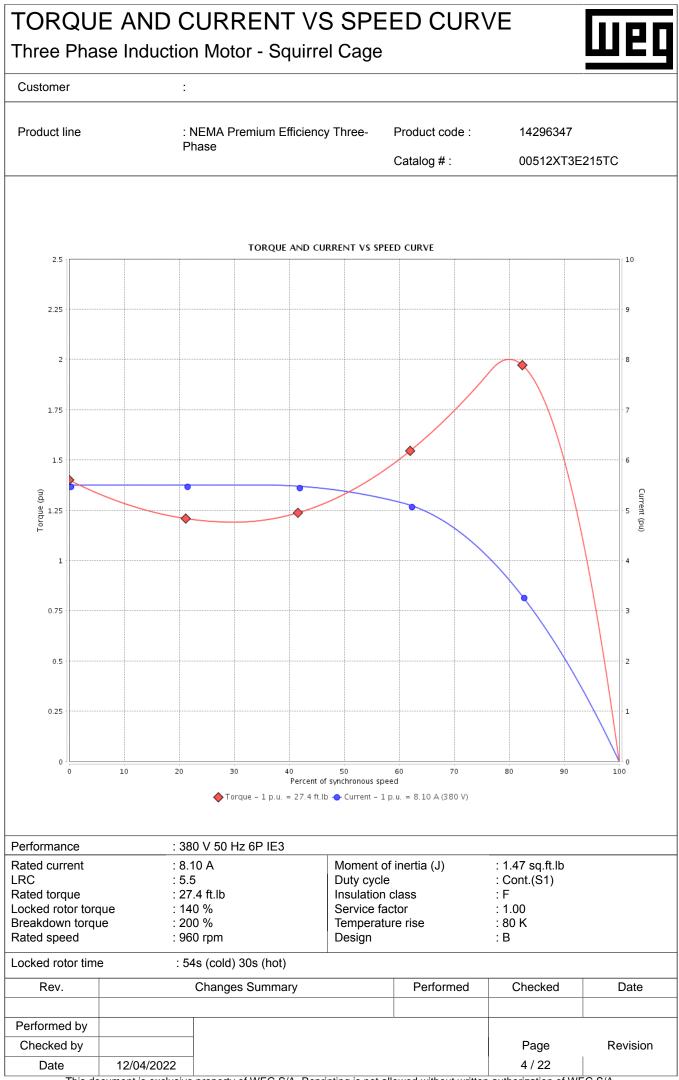
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: NEMA Premium Efficiency Three- Phase		Product code :	14296347	
		Phase		Catalog # :	00512XT3E2	215TC
		TORQUE AND CURF	RENT VS SPEE	D CURVE		
3						10
2.7						
2.4						8
2.1						7
1.8				*		6
(nd) an 1.5 o L					X	Current (pu)
Ē 1.2						<u>e</u>
0.9						З
0.6						2
0.3						
0						
0	10 2	0 30 40 Percent of sy Torque - 1 p.u. = 22.4 ft.lb	nchronous spee		80 90	100
erformance		230/460 V 60 Hz 6P				
ated current RC ated torque ocked rotor torq reakdown torqu ated speed	ue :	13.7/6.83 A 6.8 22.4 ft.lb 170 % 260 %	Moment of Duty cycle Insulation o Service fac Temperatu Design	class tor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
ocked rotor time	9	: 102s (cold) 57s (hot)				
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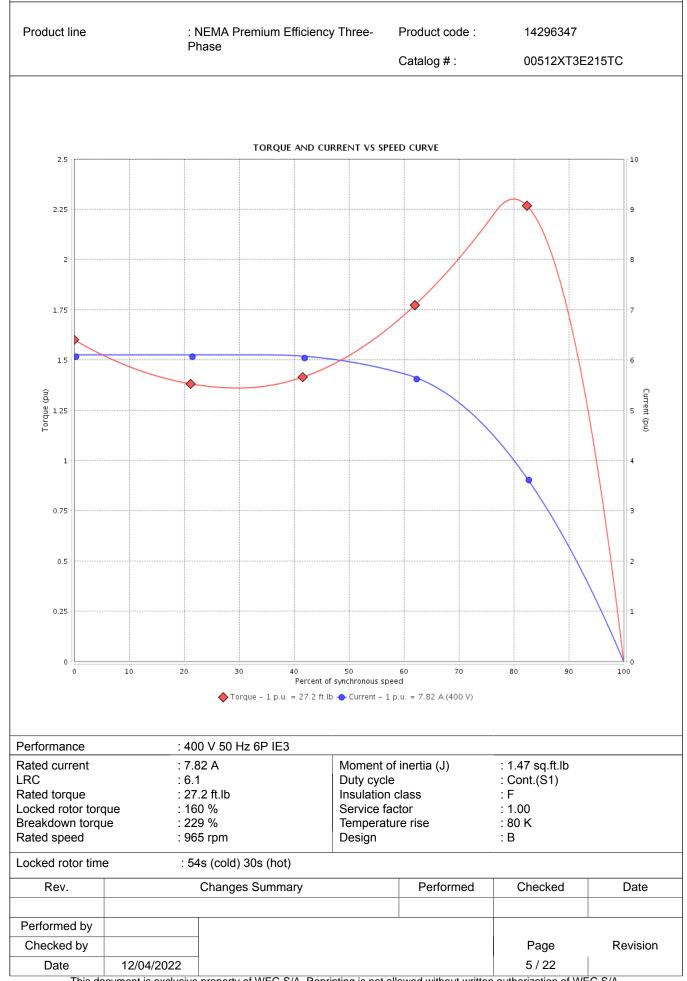
TORQUE AND CURRENT VS SPEED CURVE

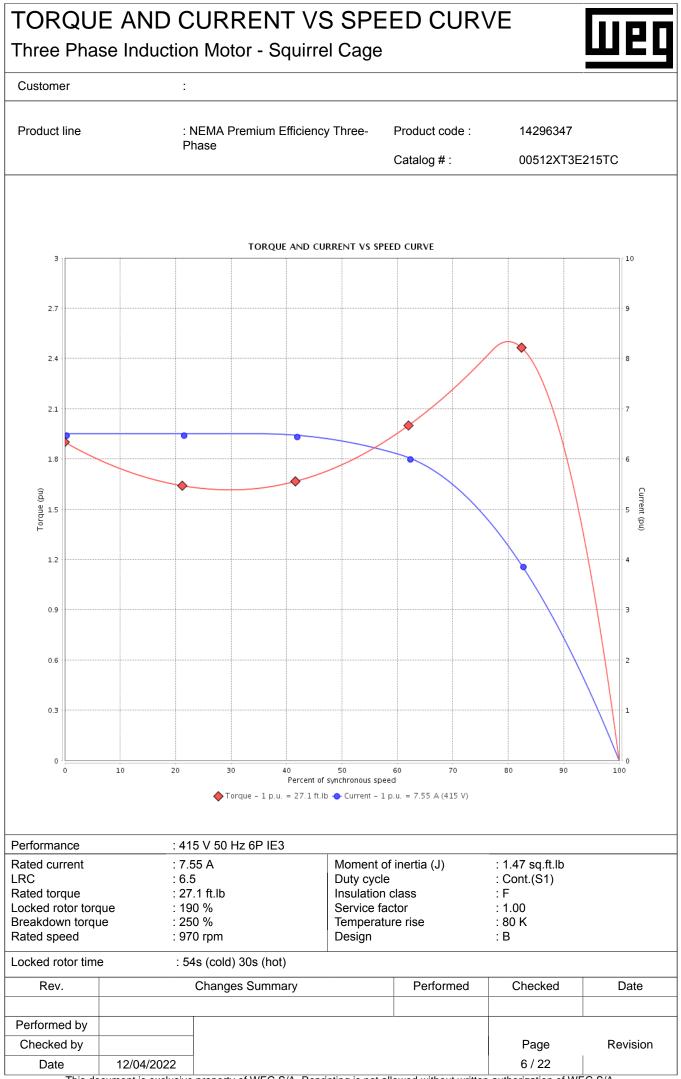
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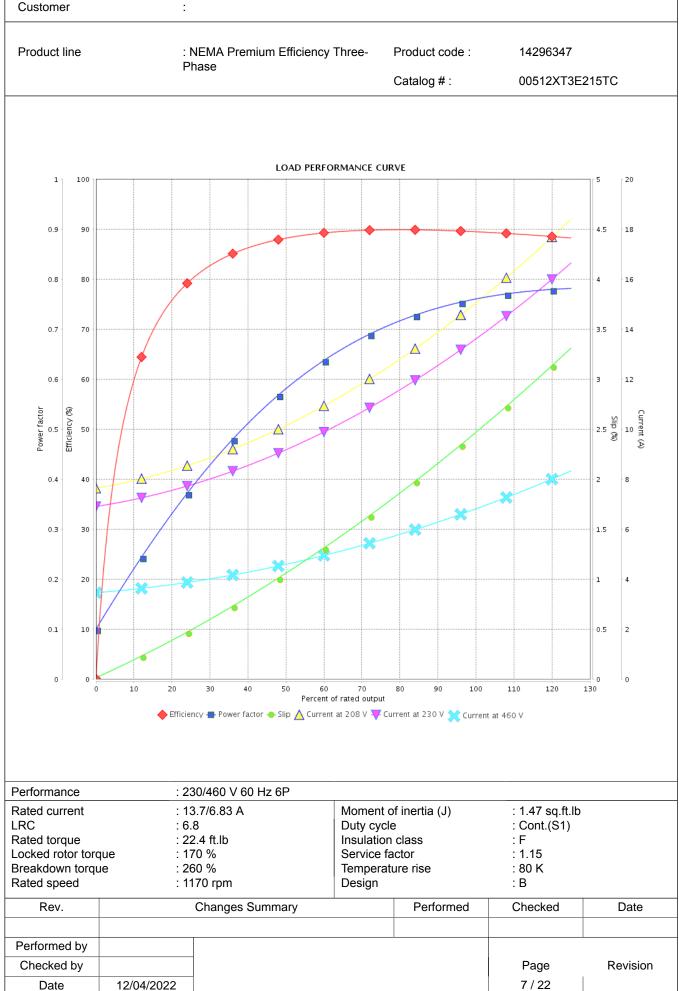
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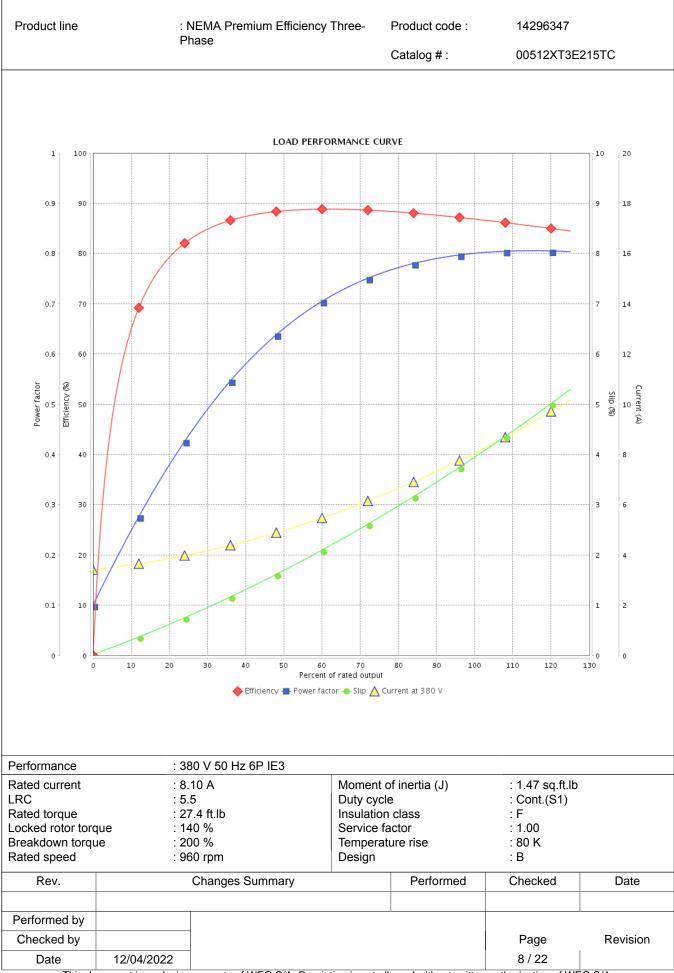
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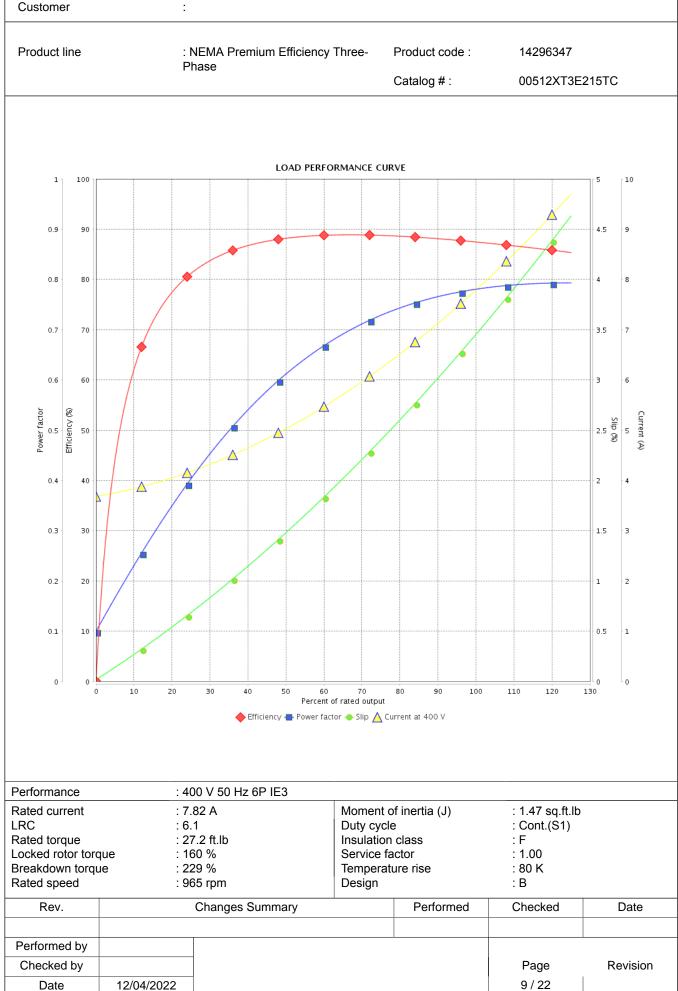


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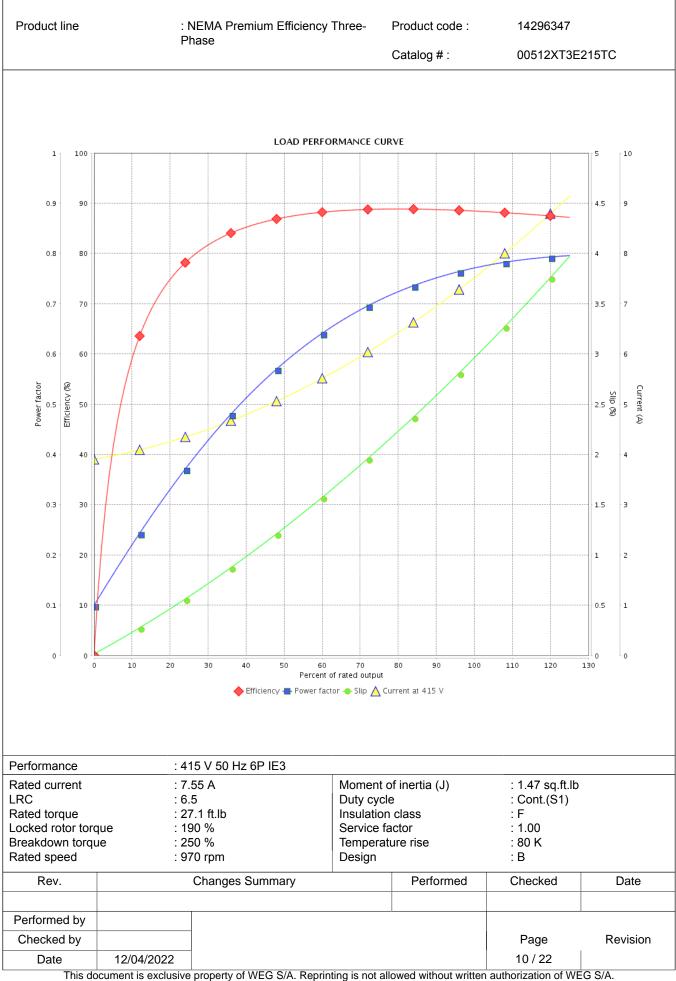
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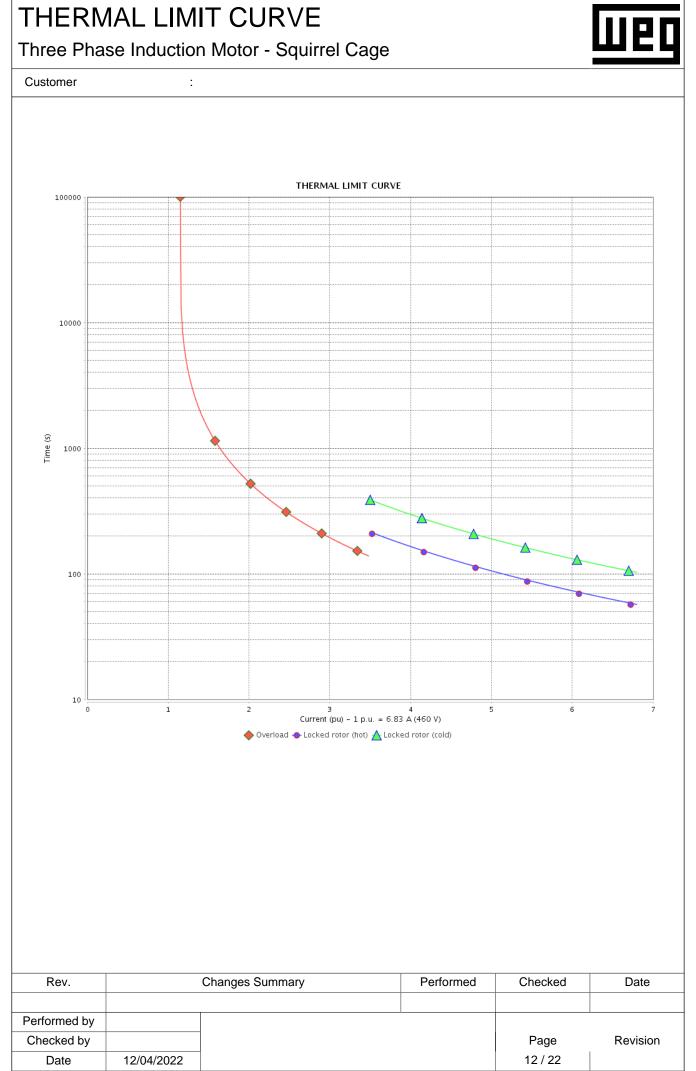
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14296347
	Phase	Catalog # :	00512XT3E215TC

Шеq

Performance	:	230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: ue : e :	13.7/6.83 A 6.8 22.4 ft.lb 170 % 260 % 1170 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.47 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant						
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Date	12/04/2022				11 / 22	
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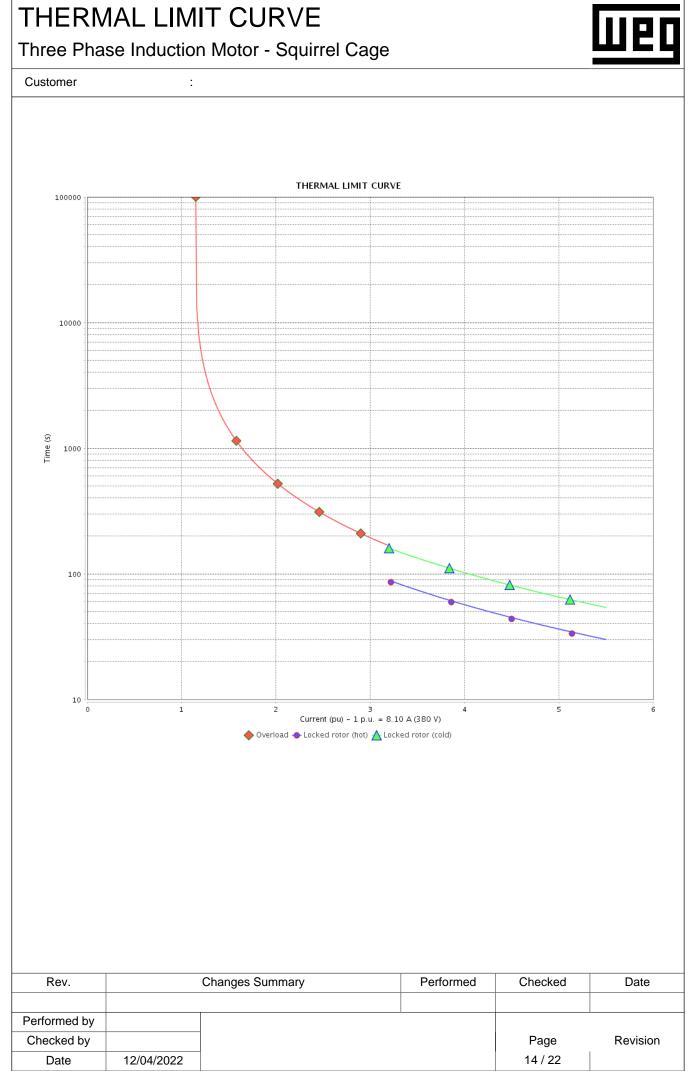
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Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14296347
	Phase	Catalog # :	00512XT3E215TC

Шеq

Performance	: 3	380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 5 : 2 jue : 1 ie : 2 : 9			class ctor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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Checked by					Page	Revision
Date	12/04/2022				13 / 22	



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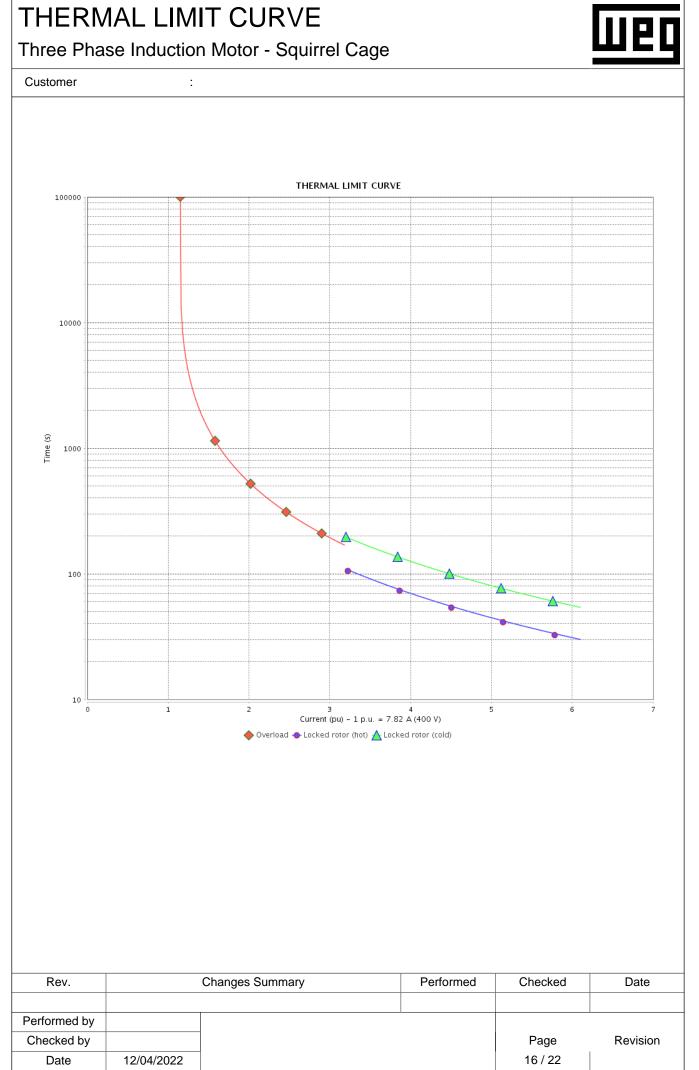
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Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14296347
	Phase	Catalog # :	00512XT3E215TC

Шед

Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	lue le	: 7.82 A : 6.1 : 27.2 ft.lb : 160 % : 229 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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Date	12/04/2022	<u>}</u>			15 / 22	
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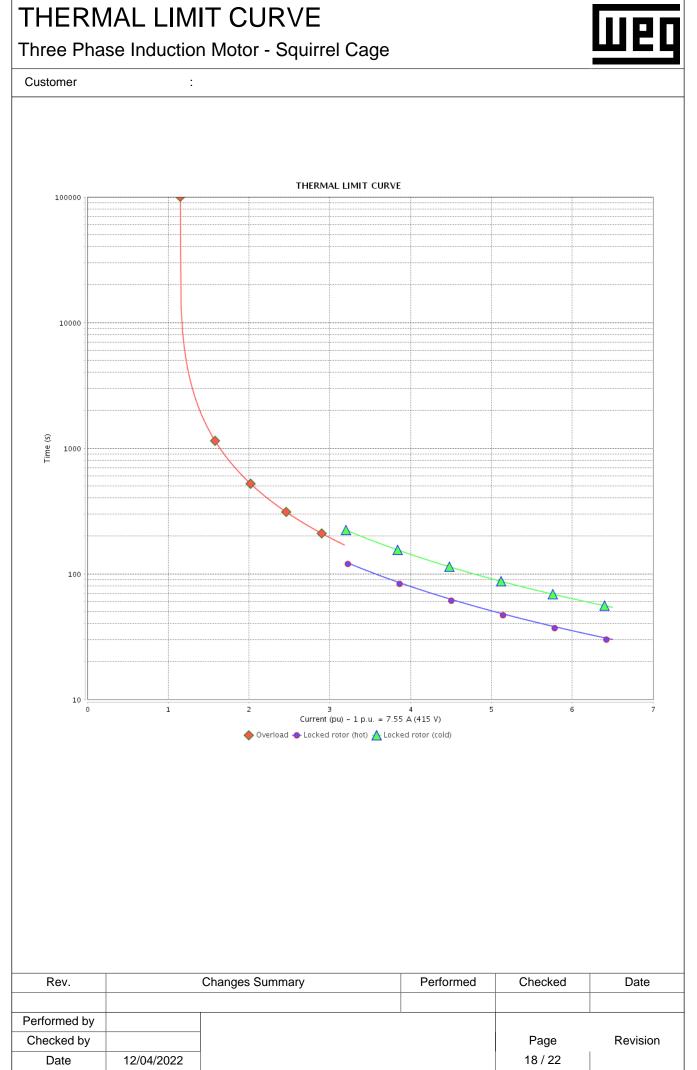
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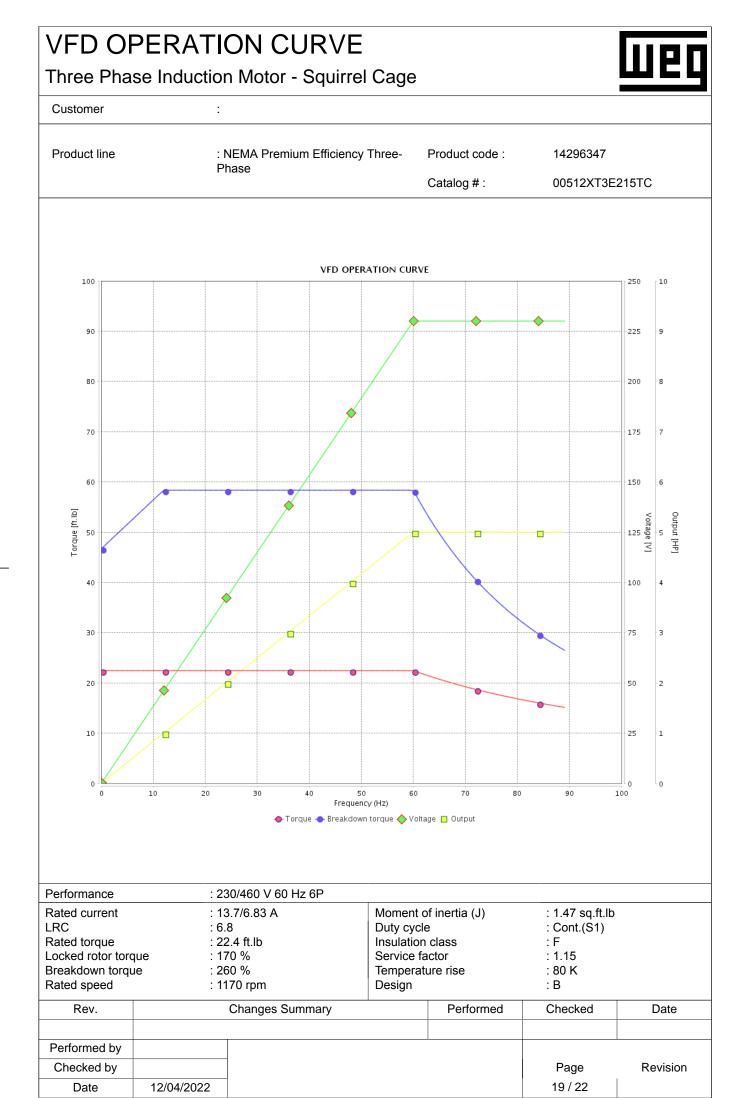
Product line	: NEMA Premium Efficiency Three-	Product code :	14296347
	Phase	Catalog # :	00512XT3E215TC

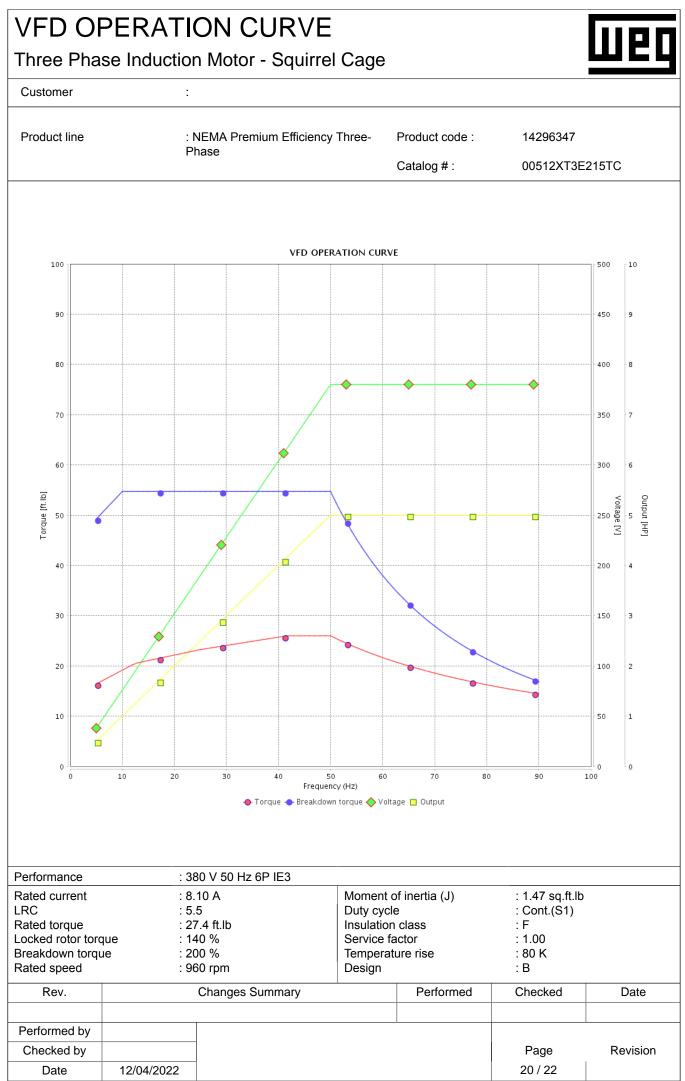
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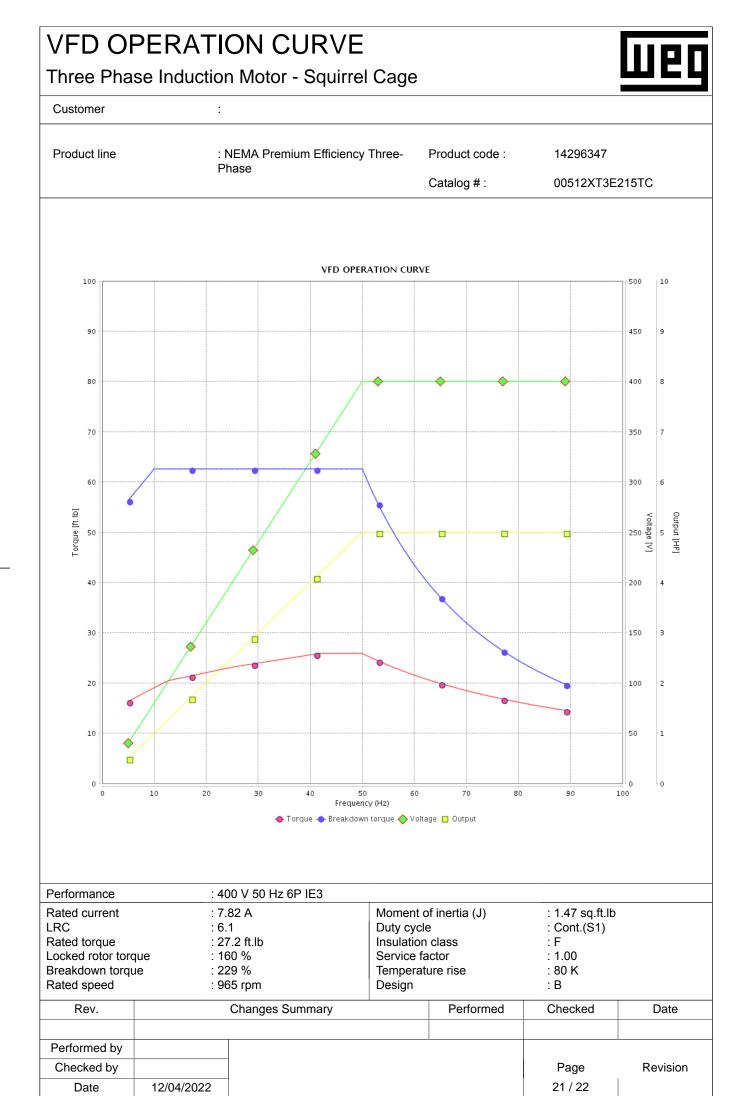
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	ue Ie	: 7.55 A : 6.5 : 27.1 ft.lb : 190 % : 250 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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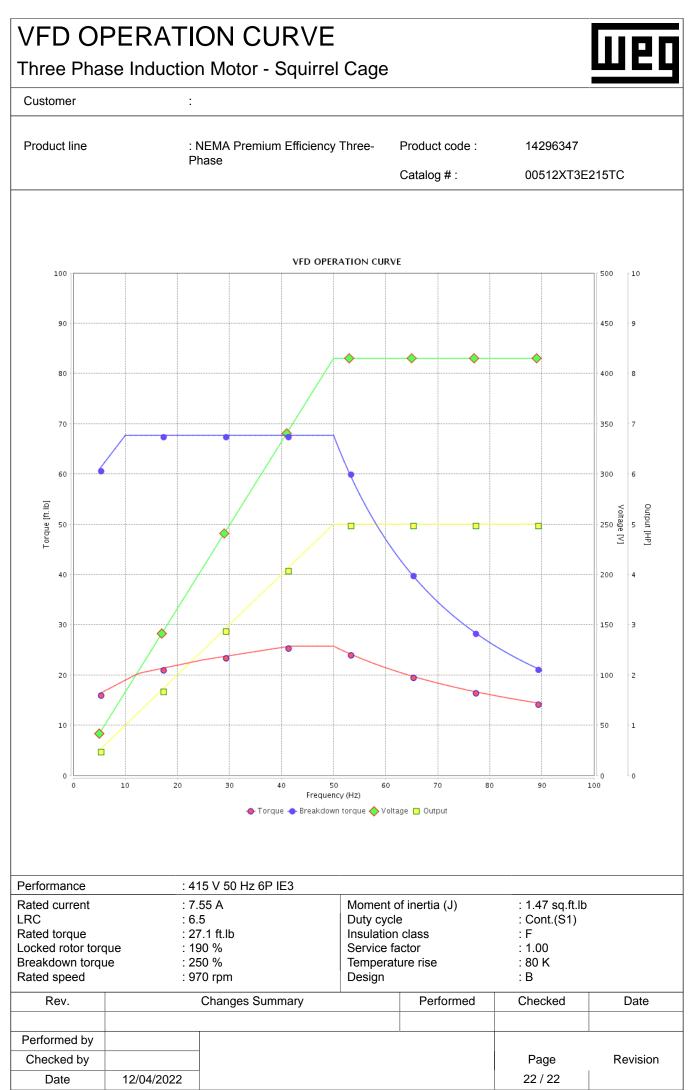


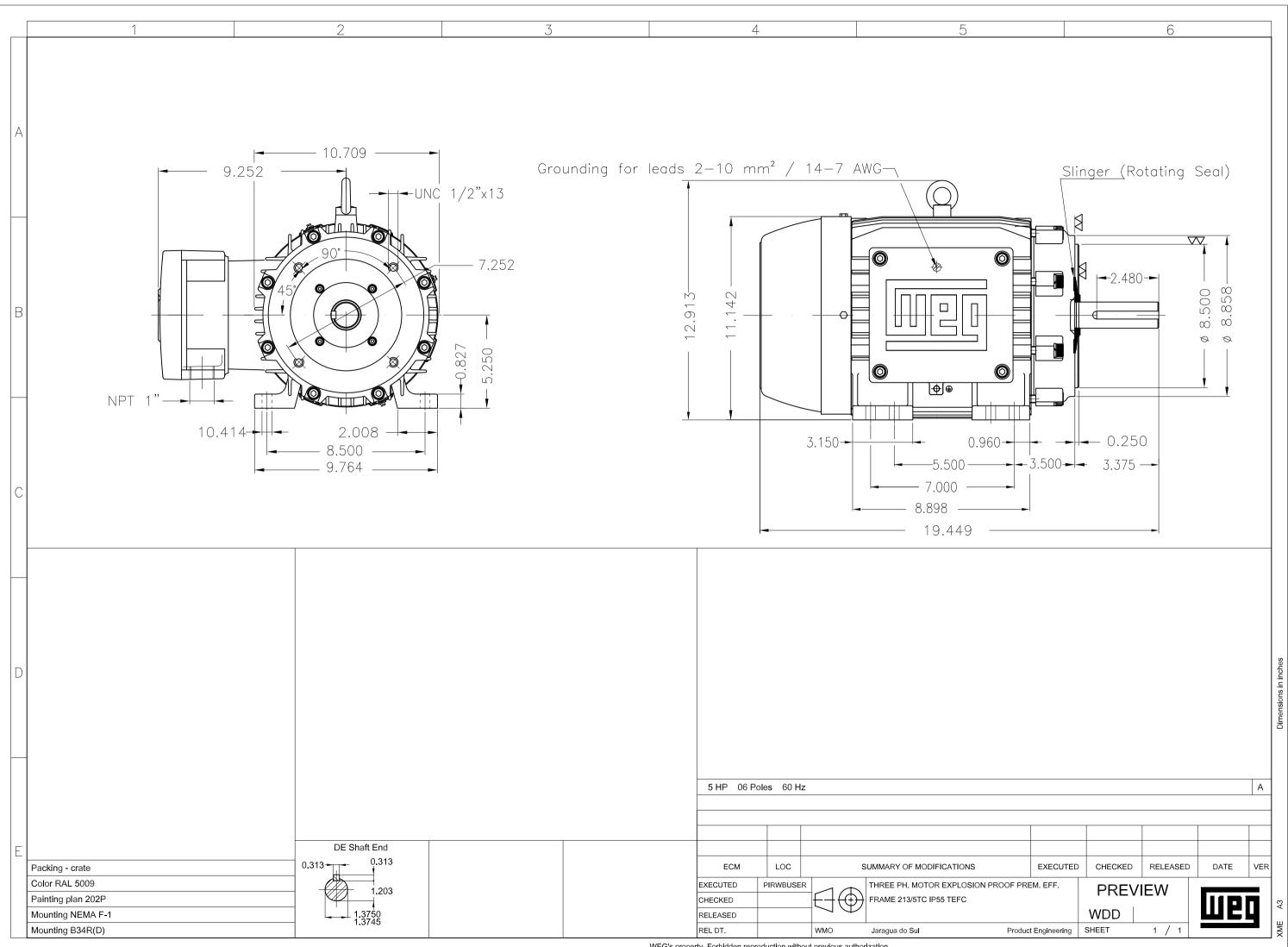
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