DATA SHEET

Three Phase Induction Motor - Squirrel Cage

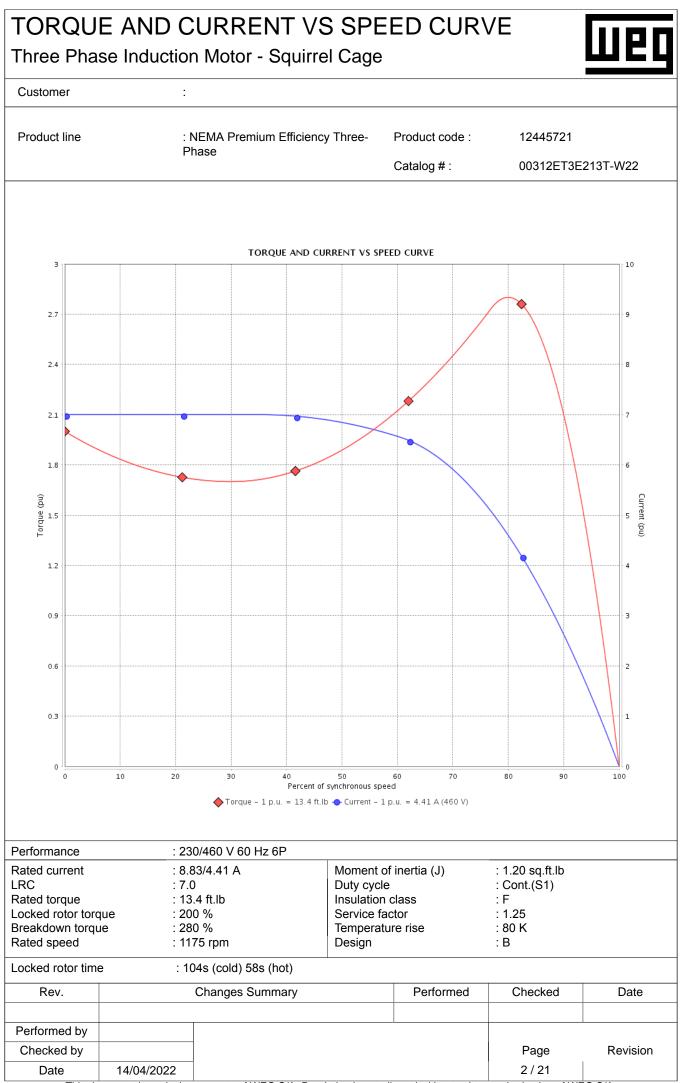
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Customer

Product line : NEMA Premium Efficiency Three- Produ Phase			roduct code :	124457	21		
		1 11030		C	atalog # :	00312E	T3E213T-W22
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.		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 : 156 lb : 1.20 sq.ft.lb	
Output [HP]		3		3		3	3
Poles		6		6		5 6	6
Frequency [Hz]		60		50		i0	50
Rated voltage [V]		230/460		380	4(00	415
Rated current [A]		8.83/4.41		5.09	4.9	92	4.87
L. R. Amperes [A]		61.8/30.9		29.5		.5	33.1
LRC [A]		7.0x(Code K)	5.8	Bx(Code H)	6.4x(C	ode J)	6.8x(Code J)
No load current [A]	5.50/2.75		2.72	2.9	91	3.05
Rated speed [RPN		1175		965		70	970
Slip [%]	-	2.08		3.50		00	3.00
Rated torque [ft.lb]		13.4		16.3	16	6.2	16.2
Locked rotor torqu		200		170		00	220
Breakdown torque	[%]	280		210		40	270
Service factor		1.25		1.00		00	1.00
Temperature rise		80 K		80 K) K	80 K
ocked rotor time		104s (cold) 58s (hot)		(cold) 40s (hot) 72s (cold) 40s (h			72s (cold) 40s (hot)
Noise level ²		55.0 dB(A)	5	53.0 dB(A) 53.0 d		dB(A)	53.0 dB(A)
	25%						
Efficiency (%)	50%	86.5	87.5			6.5	86.5
	75%	88.5		88.5	88		88.5
	100%	89.5		87.5	88	3.5	88.5
	25%						
Power Factor	50%	0.50		0.57		53	0.50
	75%	0.63		0.70		66	0.64
	100%	0.70		0.75	0.	73	0.71
Bearing type			<u>ive end</u> 07 ZZ	Foundation Max. tracti		: 169 lb	
Sealing			Ring	Max. comp		: 325 lb	
Lubrication interv	/al	: -	-				
Lubricant amoun		: -	-				
Lubricant type		: Mobil Polyrex E	EM				
Notes USABLE @208V	9.76A SF 1.	15 SFA 11.2A					
must be eliminate (1) Looking the m (2) Measured at 1	ed. otor from the m and with t veight subjec ocess.	ncel the previous one, wh e shaft end. olerance of +3dB(A). tt to changes after	hich				ts with sinusoidal stipulated in NEMA
Rev.		Changes Summary			Performed	Checked	Date
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Date	14/04/202	2				1 / 21	

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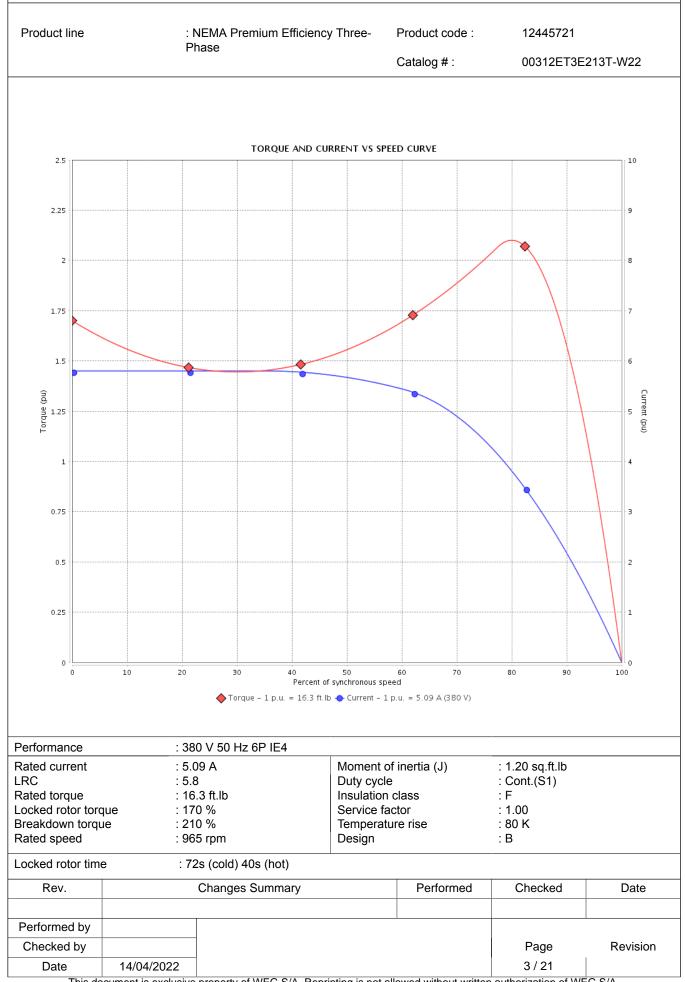
TORQUE AND CURRENT VS SPEED CURVE

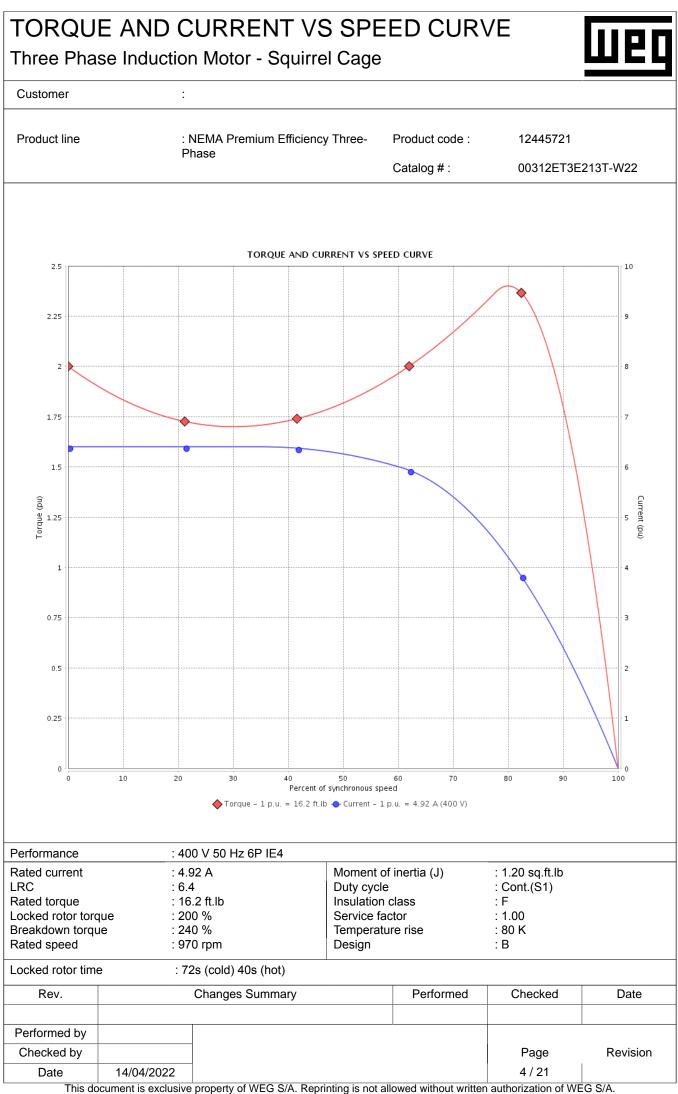
Three Phase Induction Motor - Squirrel Cage

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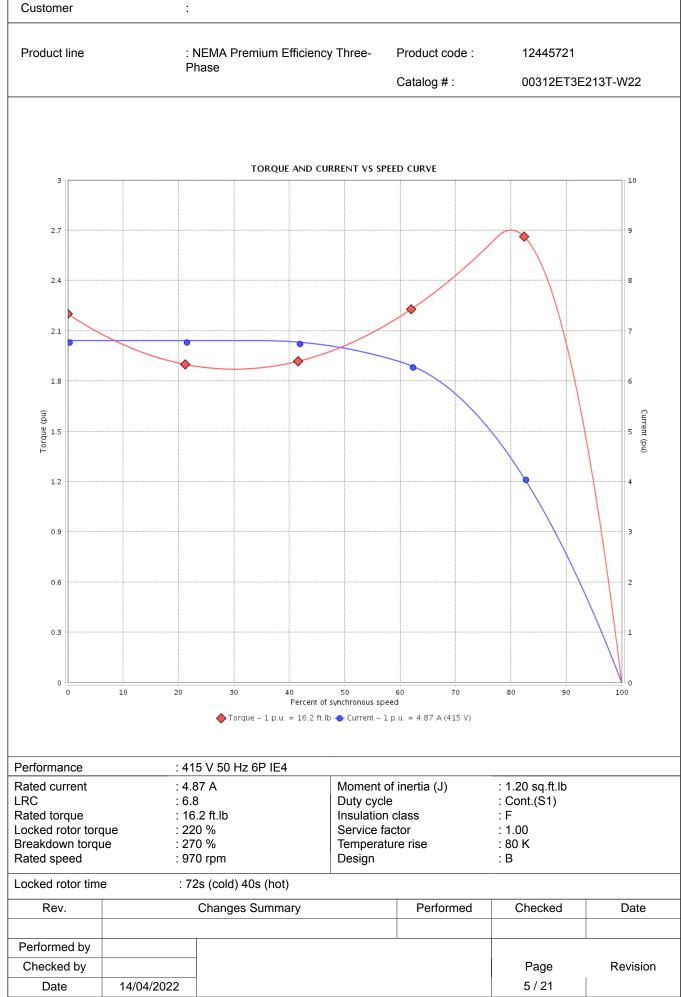




TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





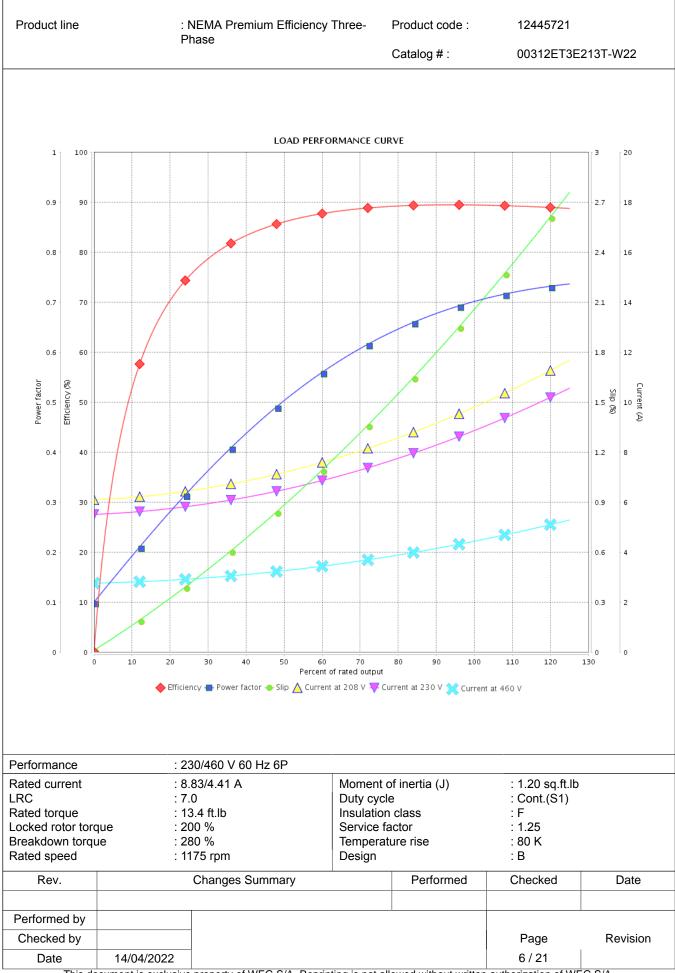
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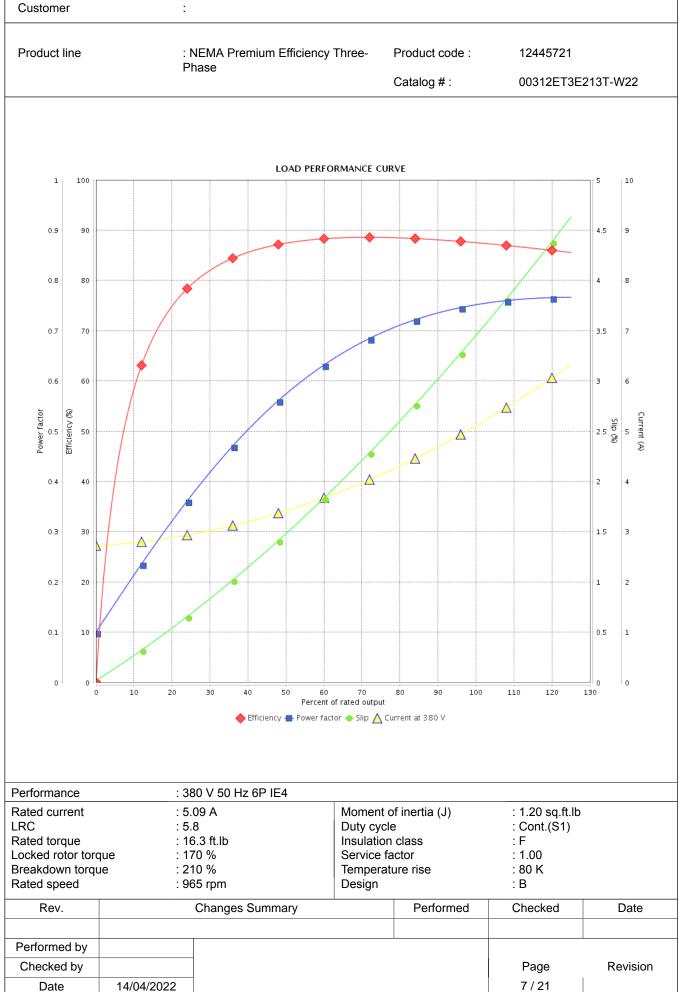


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



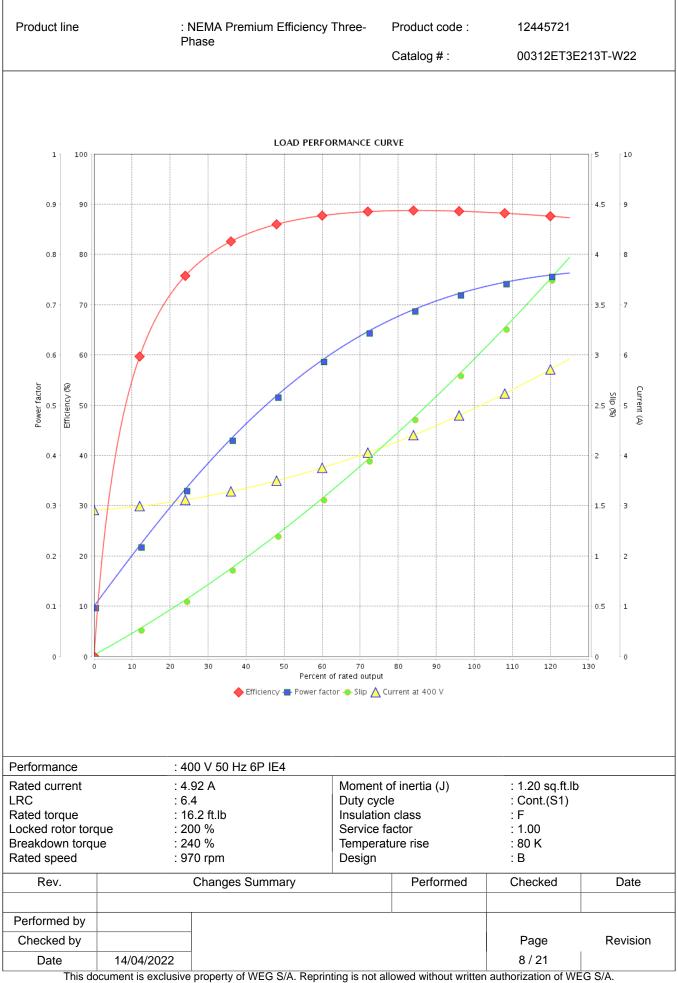
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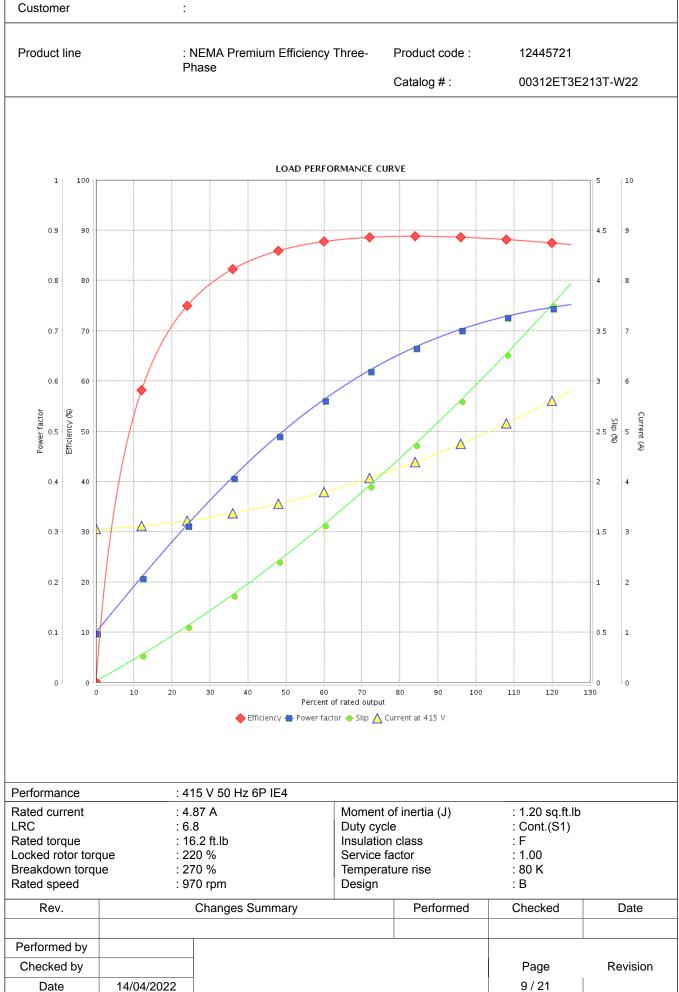


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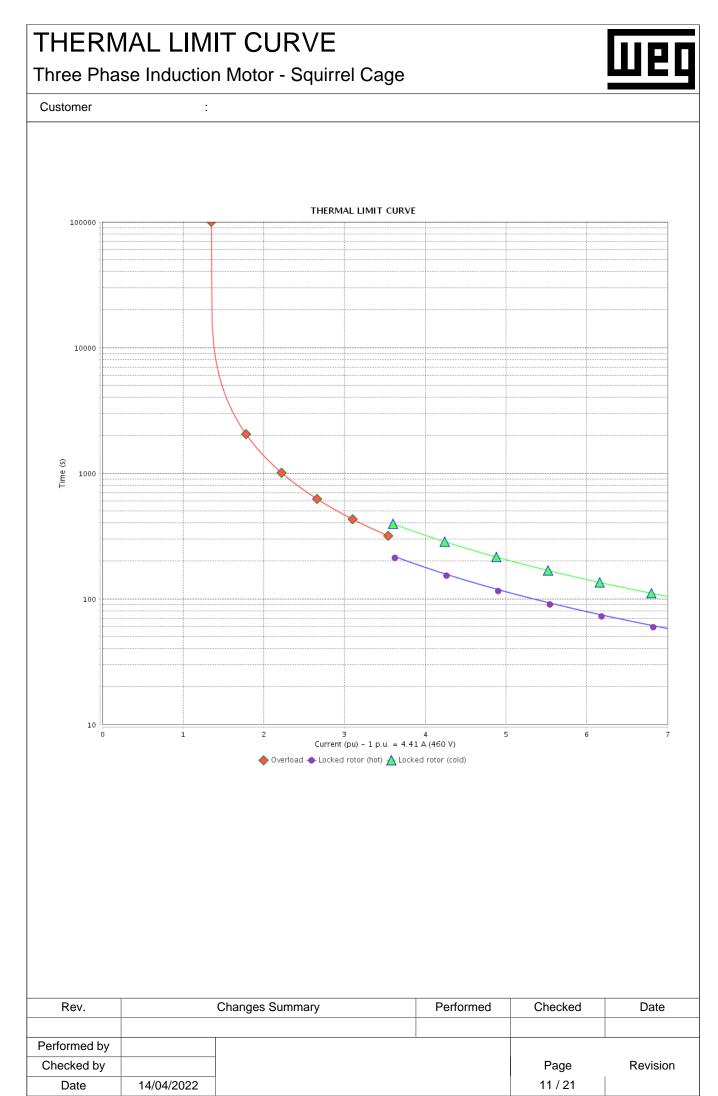


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	IMIT CURVE	
Three Phase Indu	ction Motor - Squirrel Cage	
Customer	:	



Product line		NEMA Premium Efficiency ⁻	Three-	Product code :	12445721	
	Р	hase		Catalog # :	00312ET3E2	13T-W22
Performance Rated current		30/460 V 60 Hz 6P 83/4.41 A	Momonto	finartia (I)	: 1 20 cg ft lb	
LRC	: 7.	.0	Duty cycle		: 1.20 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor toro		3.4 ft.lb 00 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	.ue : 28	80 %	Temperati		: 80 K	
Rated speed	: 11	175 rpm	Design		: B	
Heating constan						
Cooling constant Rev.		Changes Summers		Performed	Checked	Data
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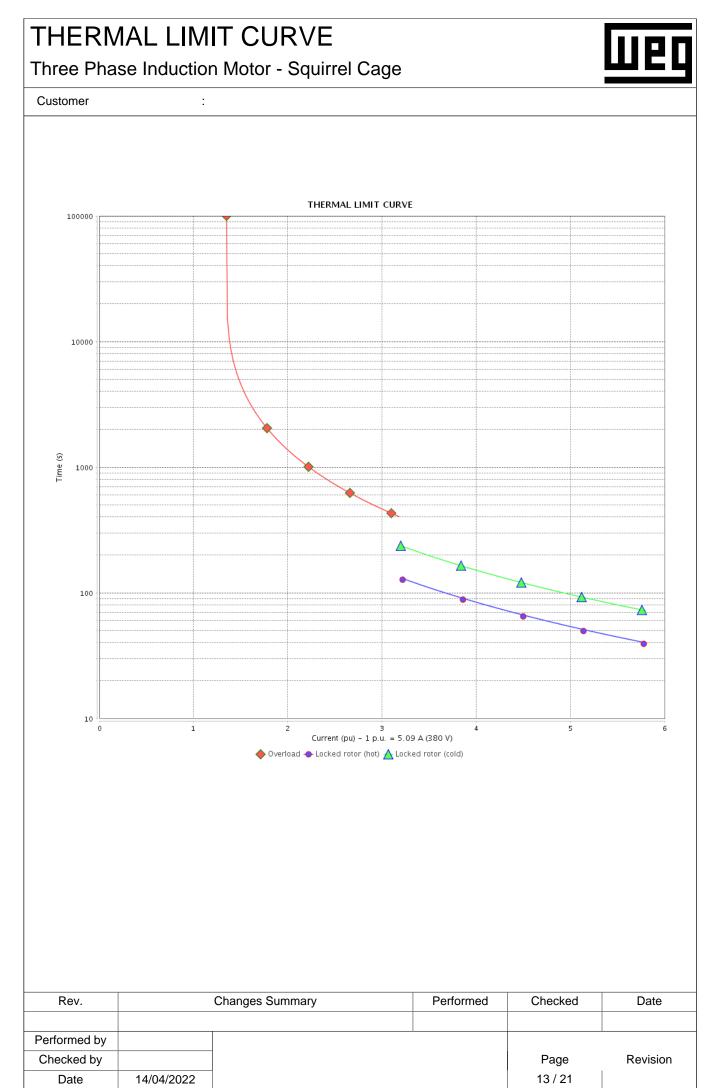


THERMA	L LIMIT (CURVE		
Three Phase	Induction Mc	otor - Squirrel (Cage	
Customer	:			



Customer

Product line		NEMA Premium Efficiency T	Three-	Product code :	12445721		
	FI	1050		Catalog # :	00312ET3E2	13T-W22	
				Catalog # :	00312ET3E2	1131-W22	
Performance Rated current		30 V 50 Hz 6P IE4 09 A	Momente	finartia (I)	: 1.20 sq.ft.lb		
LRC	: 5.	8	Duty cycle	f inertia (J) e	: Cont.(S1)		
Rated torque		6.3 ft.lb	Insulation	class	: F		
Locked rotor toro Breakdown torqu		70 % 10 %	Service fa Temperati		: 1.00 : 80 K		
Rated speed		65 rpm	Design		: B		
Heating constant							
Cooling constant				· · · · · · · · · · · · · · · · · · ·			
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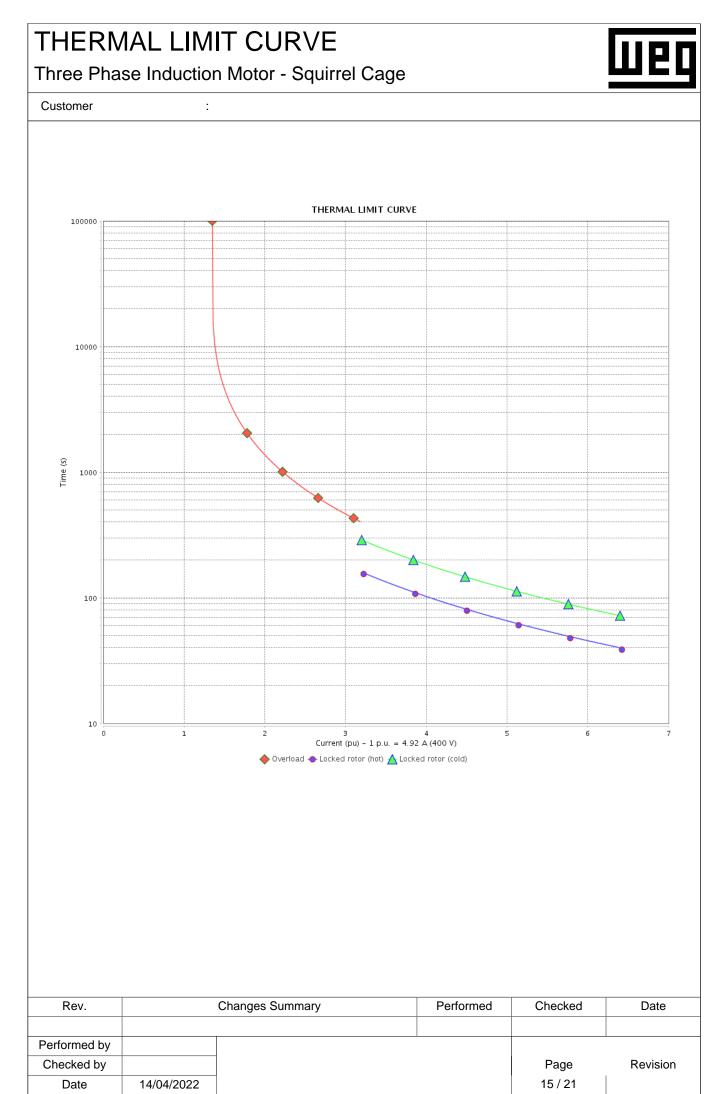


THERMA	AL LIMIT (CURVE		
Three Phase	Induction Mo	otor - Squirre	el Cage	
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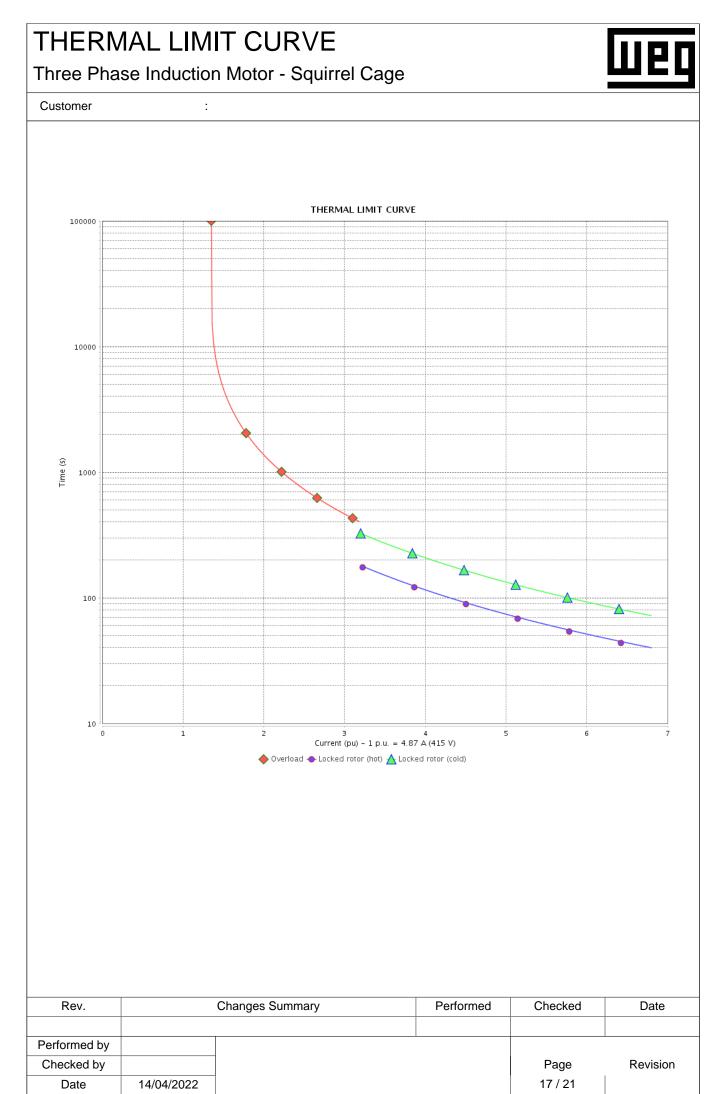
Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	12445721	
				Catalog # :	00312ET3E2	213T-W22
				Catalog # :	00312ET3E2	213T-W22
Performance		00 V 50 Hz 6P IE4				
Rated current LRC Rated torque	: 6. : 16	6.2 ft.lb	Duty cycle Insulation	class	: 1.20 sq.ft.lb : Cont.(S1) : F	
Locked rotor toro		0 %	Service fa		: 1.00	
Breakdown torqu Rated speed		40 % 70 rpm	Temperati Design	ure iise	: 80 K : B	
Heating constant			2001911			
Cooling constant	t					
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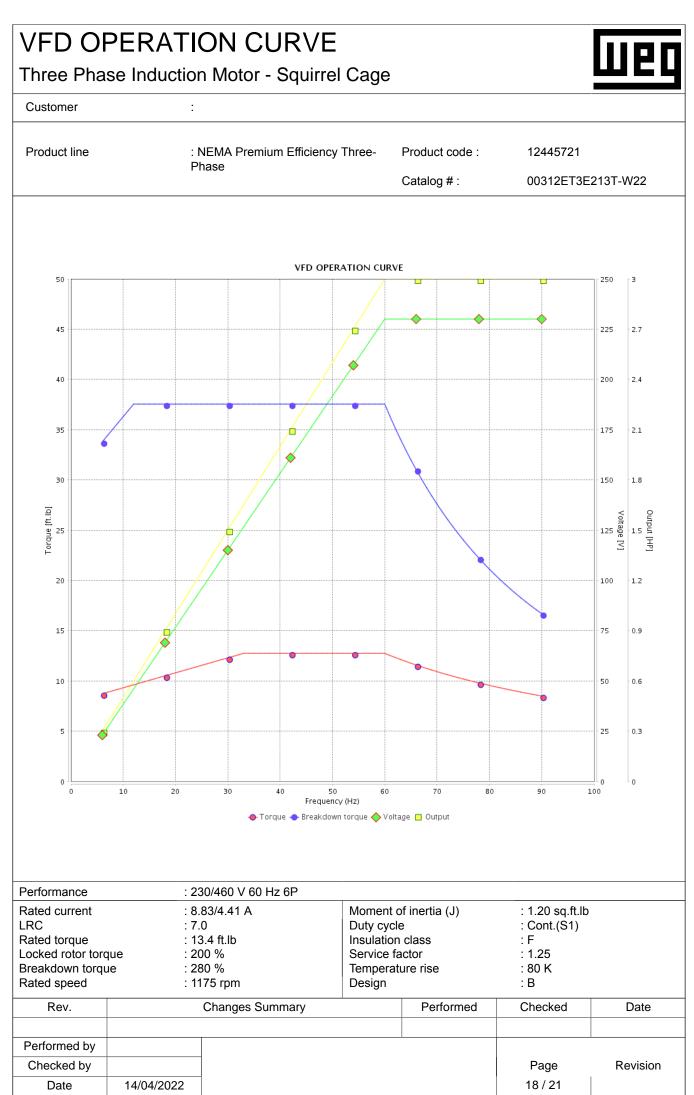


THERMAL LI	MIT CURVE
Three Phase Induct	ion Motor - Squirrel Cage
Customer	:

Шео

Product line	: NEMA Premium Efficiency Three	e- Product code :	12445721	5721	
	Phase	Catalog # :	00312ET3E	213T-W22	
	: 415 V 50 Hz 6P IE4	mont of inortia (1)	• 1 20 cg ft lb		
ated current	: 4.87 A Mor : 6.8 Dut	ment of inertia (J) y cycle	: 1.20 sq.ft.lb : Cont.(S1)		
Rated current RC Rated torque	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu	y cycle Jlation class	: Cont.(S1) : F		
Rated current RC Rated torque ocked rotor torque	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu : 220 % Ser	y cycle Jlation class vice factor	: Cont.(S1) : F : 1.00		
lated current RC lated torque ocked rotor torque reakdown torque	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu : 220 % Ser	y cycle ulation class vice factor nperature rise	: Cont.(S1) : F		
Rated current .RC Rated torque .ocked rotor torque Breakdown torque Rated speed	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu : 220 % Sen : 270 % Tem	y cycle ulation class vice factor nperature rise	: Cont.(S1) : F : 1.00 : 80 K		
tated current RC Bated torque ocked rotor torque ireakdown torque tated speed leating constant	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu : 220 % Sen : 270 % Tem	y cycle ulation class vice factor nperature rise	: Cont.(S1) : F : 1.00 : 80 K		
tated current RC Bated torque ocked rotor torque ireakdown torque tated speed leating constant	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu : 220 % Sen : 270 % Tem	y cycle ulation class vice factor nperature rise	: Cont.(S1) : F : 1.00 : 80 K	Date	
Rated current RC Rated torque ocked rotor torque Breakdown torque Rated speed leating constant Cooling constant Rev.	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu : 220 % Sen : 270 % Ten : 970 rpm Des	y cycle Jlation class vice factor nperature rise sign	: Cont.(S1) : F : 1.00 : 80 K : B		
Rated current RC Rated torque ocked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu : 220 % Sen : 270 % Ten : 970 rpm Des	y cycle Jlation class vice factor nperature rise sign	: Cont.(S1) : F : 1.00 : 80 K : B Checked	Date	
Performed by Checked by	: 4.87 A Mor : 6.8 Dut : 16.2 ft.lb Insu : 220 % Sen : 270 % Ten : 970 rpm Des	y cycle Jlation class vice factor nperature rise sign	: Cont.(S1) : F : 1.00 : 80 K : B		



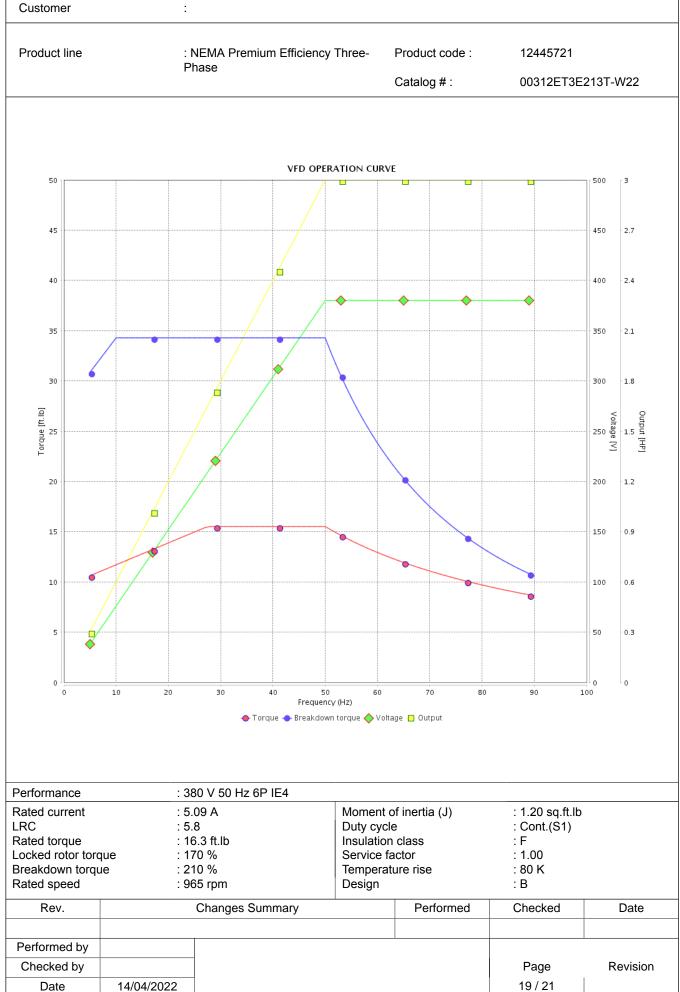


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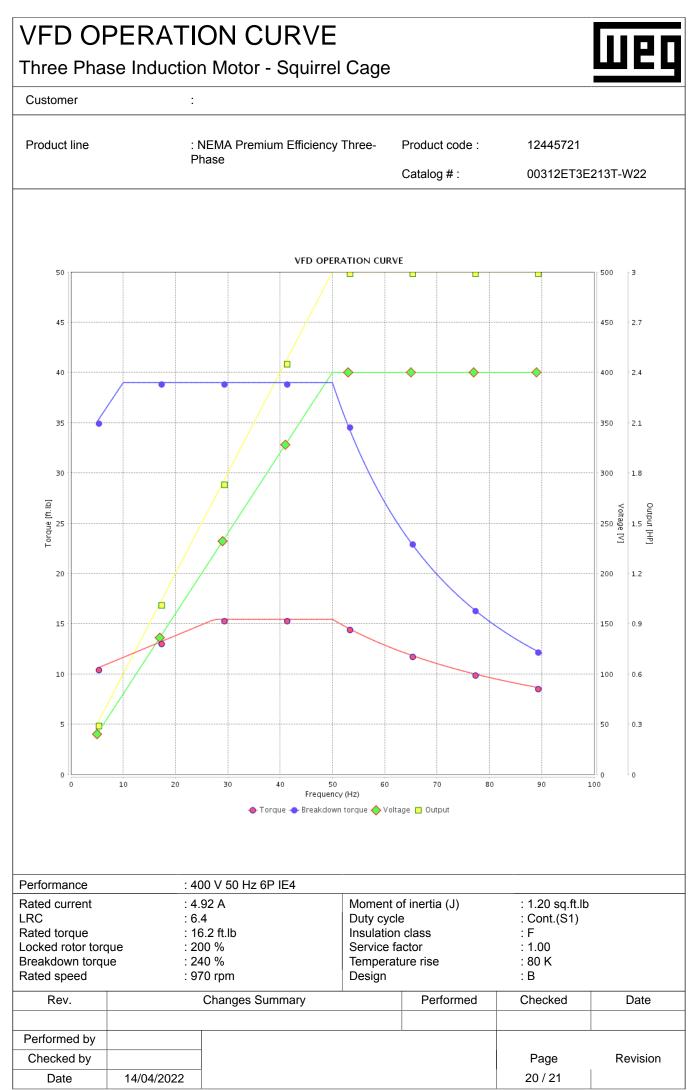
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



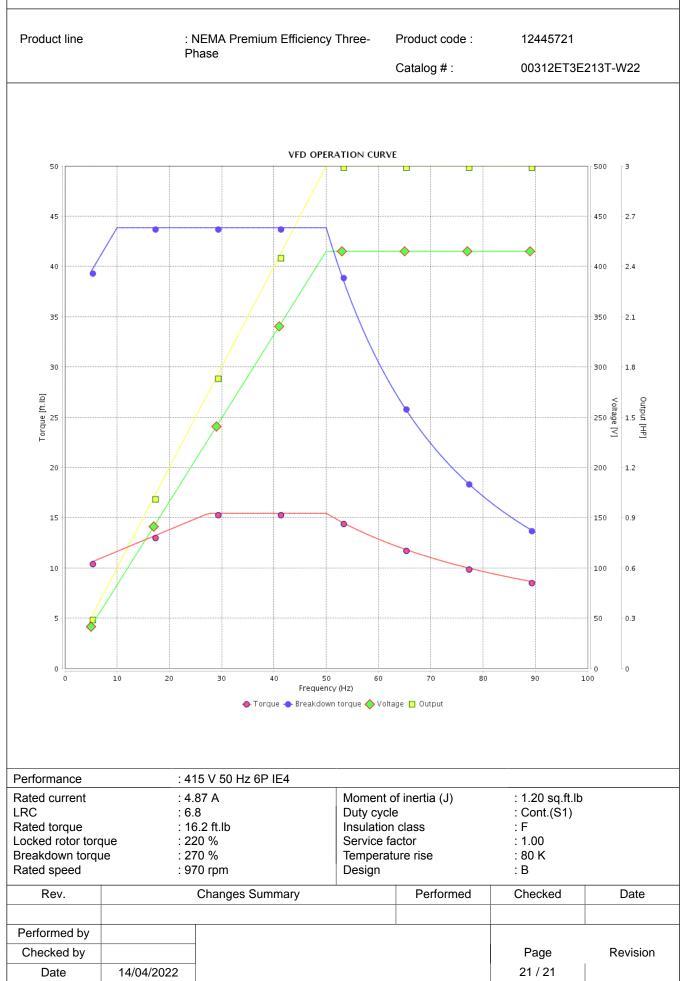
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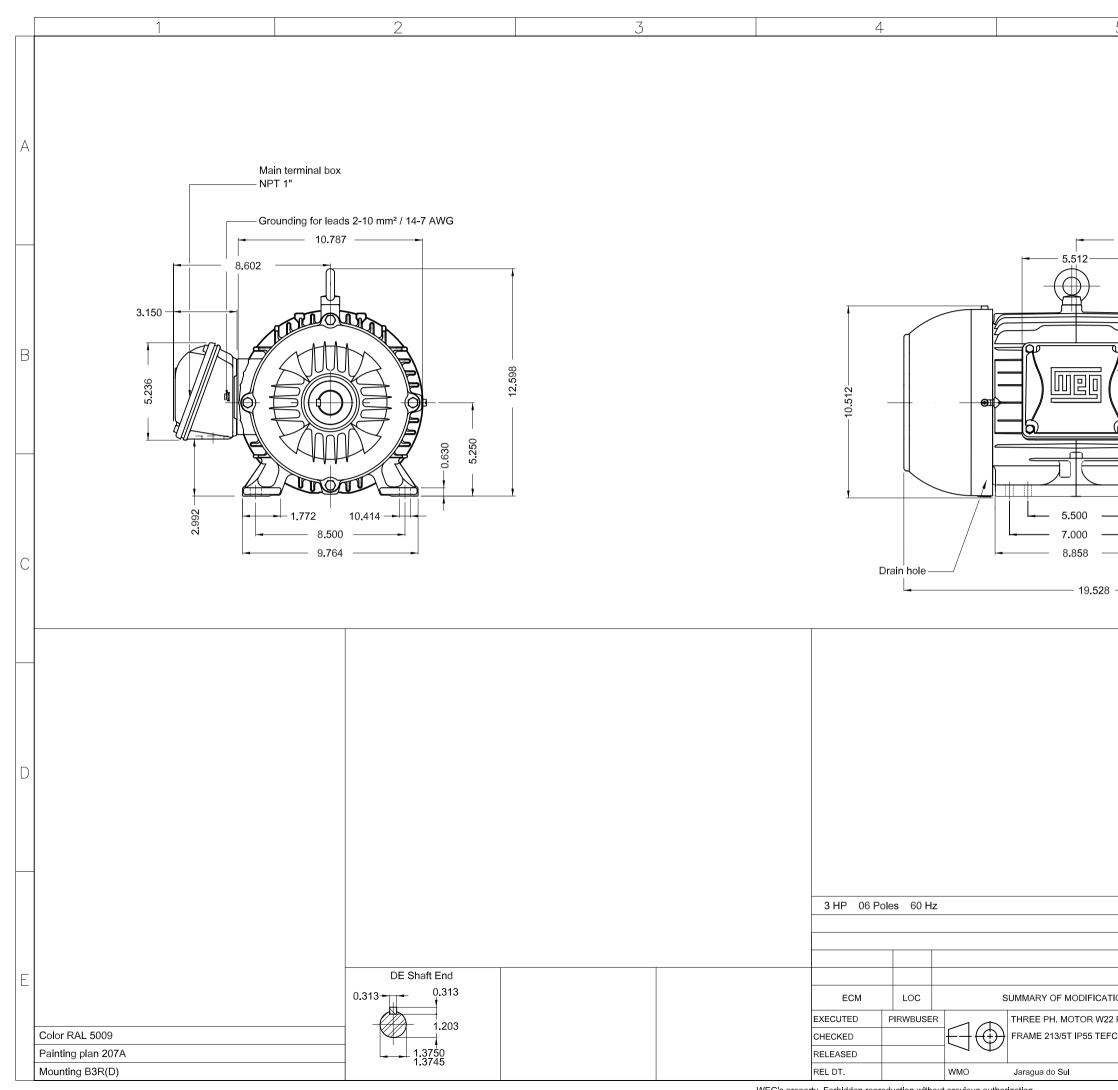


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Customer



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