DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effi Phase	ciency T	hree- Pr	oduct code :	144074	14407410	
		Phase		Ca	atalog # :	04018XT3E324TC		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 324TC : 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 : 656 lb : 8.17 sq.ft.lb		
Output [HP]		40		40	4	0	40	
Poles		4		4	4	ł	4	
Frequency [Hz]		60		50	5	-	50	
Rated voltage [V]		230/460		380	40		415	
Rated current [A]		96.4/48.2		58.7	56		54.1	
L. R. Amperes [A]		742/371		364	38		400	
LRC [A]	-	7.7x(Code J)	6.2	2x(Code G)	6.9x(C		7.4x(Code J)	
No load current [A		46.0/23.0		22.8	24		25.3	
Rated speed [RPN	Л]	1780	<u> </u>	1470	14		1475	
Slip [%]		1.11		2.00	1.6		1.67	
Rated torque [ft.lb]		118		143	14		142	
Locked rotor torqu		270		200 210	22		250	
Breakdown torque [%]		300			24		260	
Service factor		1.15		1.00	1.0		1.00	
Temperature rise		80 K	. <u> </u>	80 K	80		80 K	
Locked rotor time		34s (cold) 19s (hot)		cold) 25s (ho			45s (cold) 25s (hot)	
Noise level ²	050/	71.0 dB(A)	69.0 dB(A)		69.0 0		69.0 dB(A)	
	25%	92.8		93.4	92		92.7	
Efficiency (%)	50%	93.0		93.0	93		92.4	
	75%	94.1	ļ	93.0	93		93.6	
	100%	94.1	92.4		93		93.0	
	25%	0.39	ļ	0.45	0.4		0.39	
Power Factor	50%	0.66		0.72	0.0		0.66	
	75%	0.77		0.81	0.7		0.77	
	100%	0.83		0.84	0.8	33	0.83	
Bearing type Sealing			<u>rive end</u> 12 C3 o Seal	Foundation Max. traction Max. comp	on	: 1093 : 1749		
Lubrication interv	/al	: 20000 h 20	000 h					
Lubricant amoun	it		13 g					
Lubricant type		: Mobil Polyrex E	EM					
must be eliminate (1) Looking the m (2) Measured at 1	aces and car ed. lotor from the	ncel the previous one, wi e shaft end. olerance of +3dB(A).	hich				sts with sinusoidal stipulated in NEMA	
(3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ocess.	t to changes after Changes Summary	,		Performed	Checked	d 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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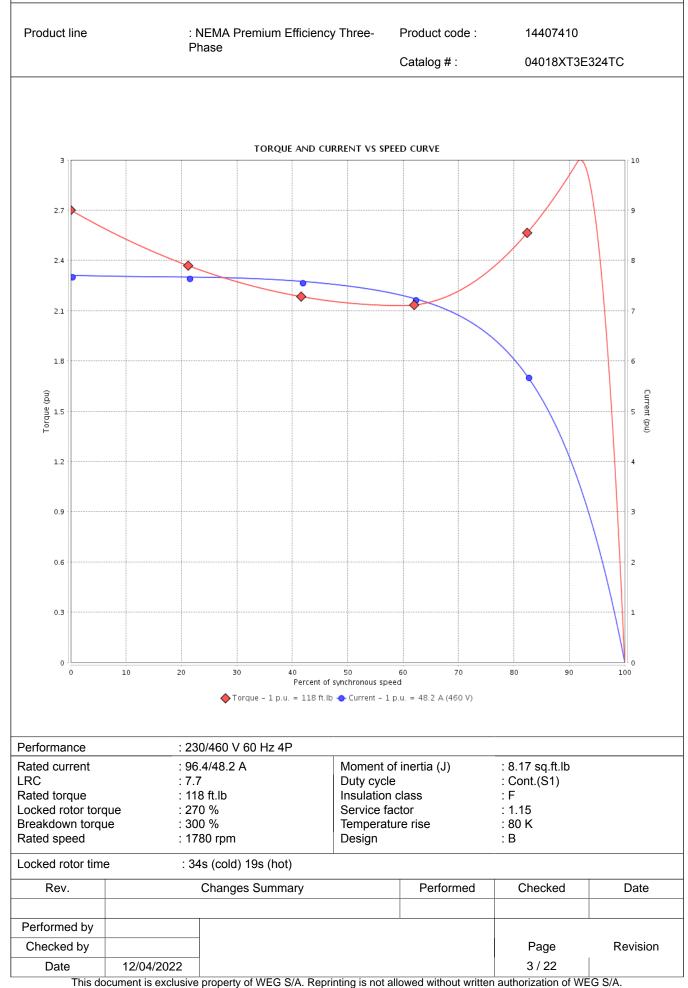
TORQUE AND CURRENT VS SPEED CURVE

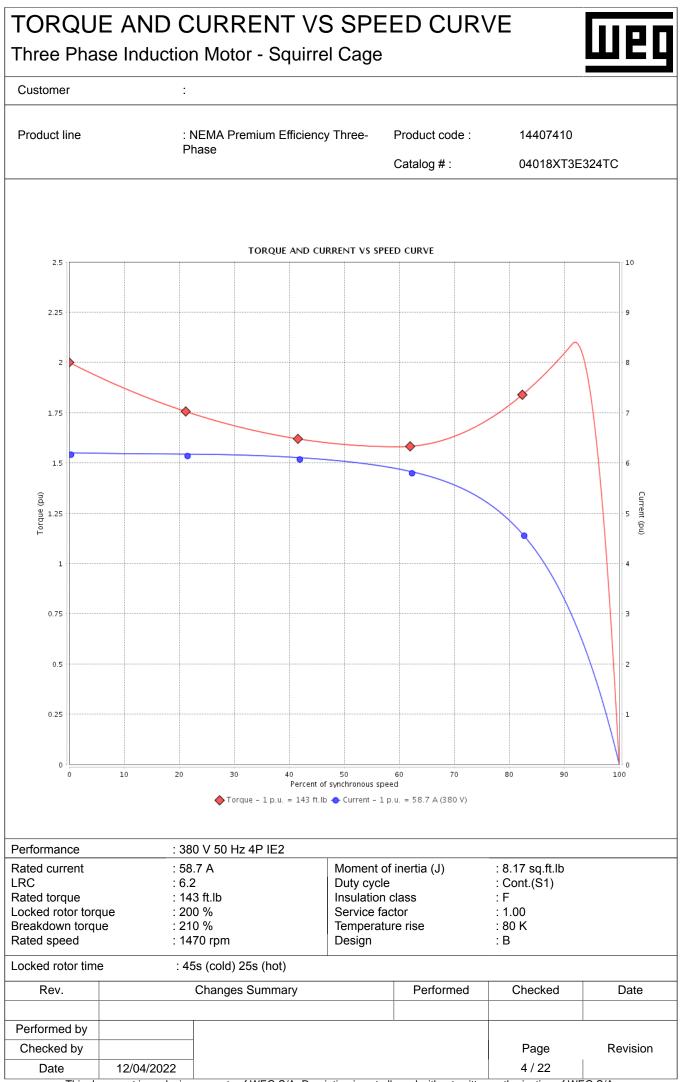
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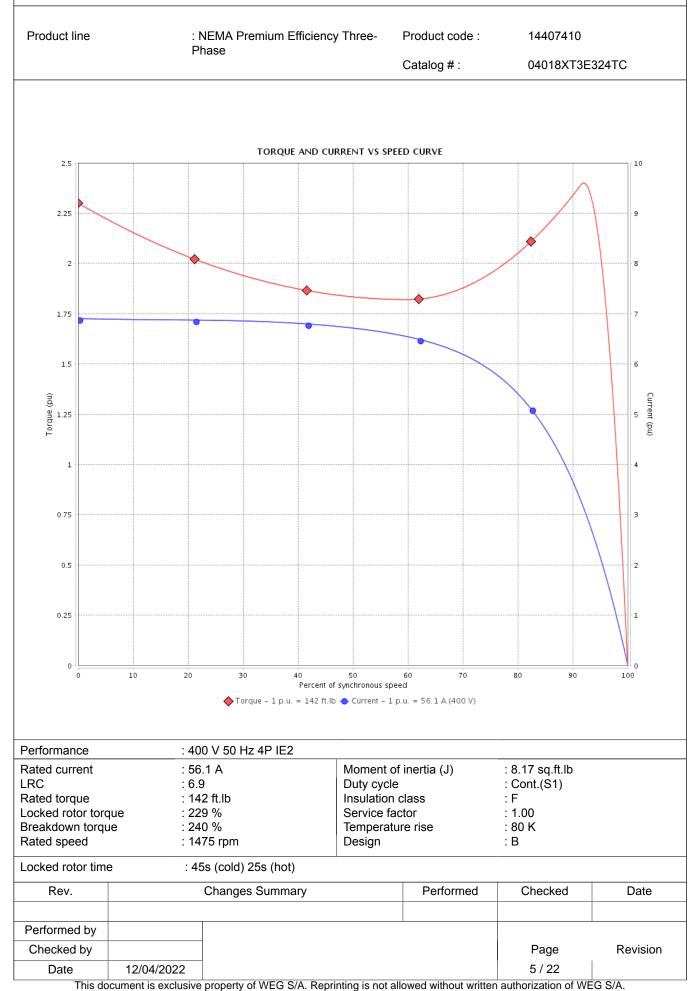
TORQUE AND CURRENT VS SPEED CURVE

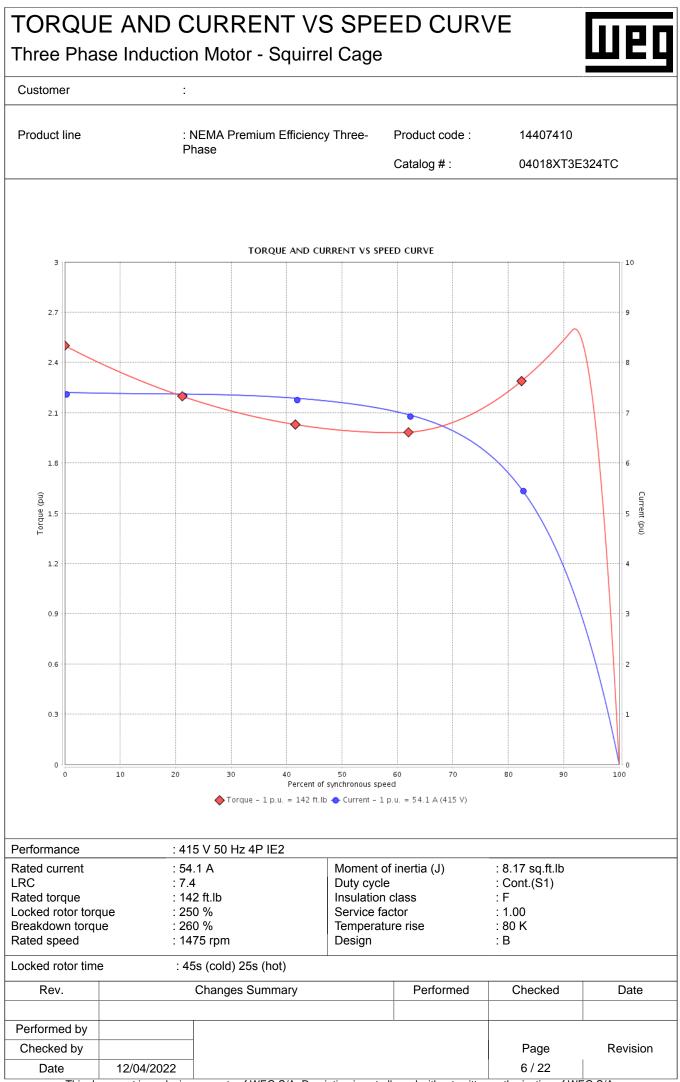
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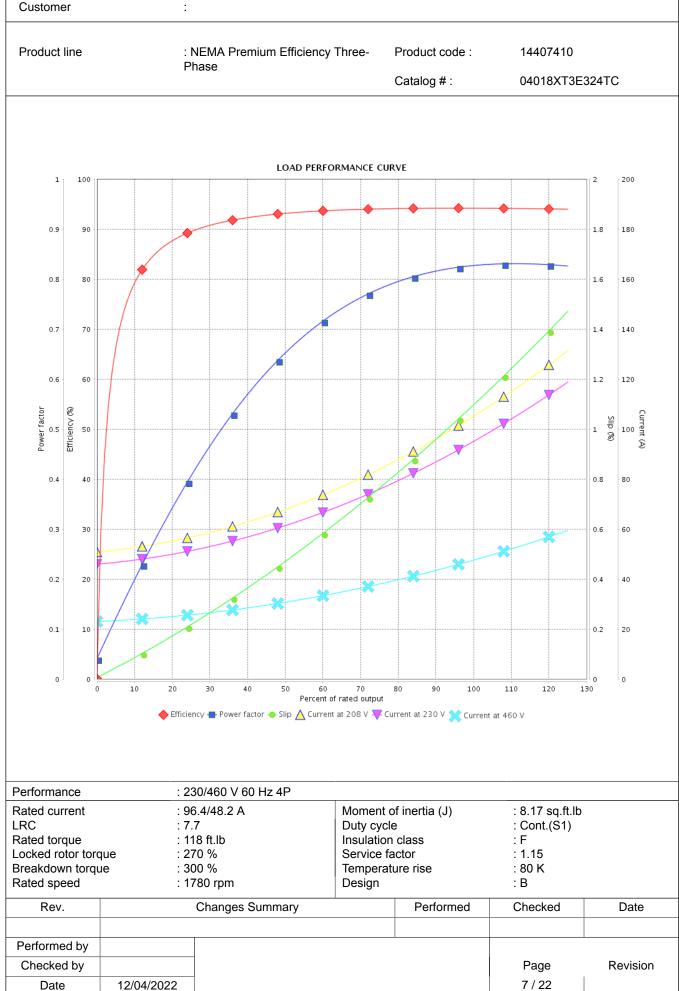






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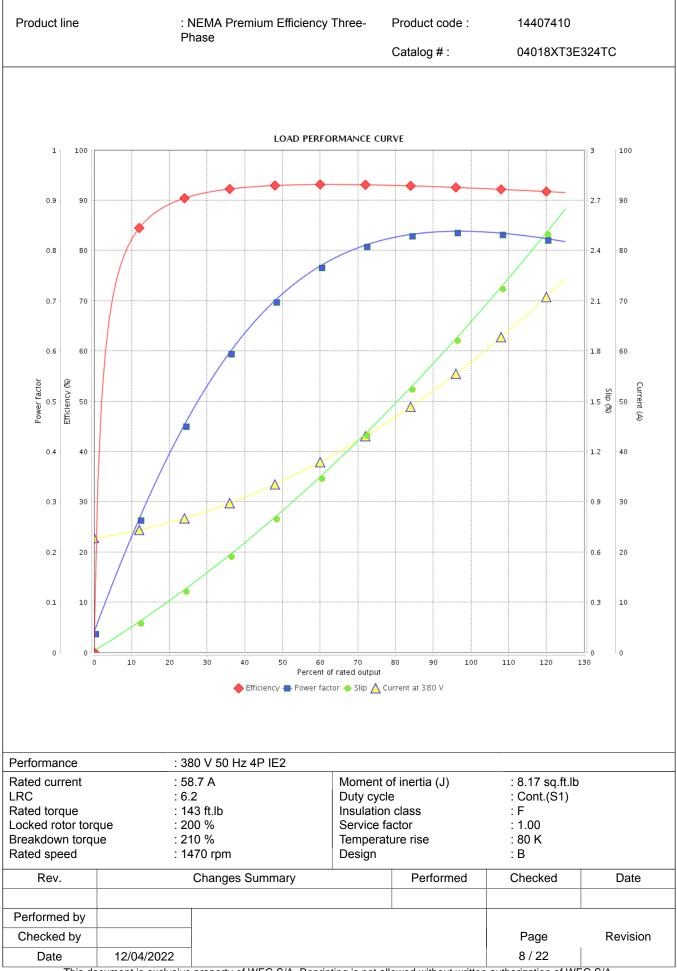
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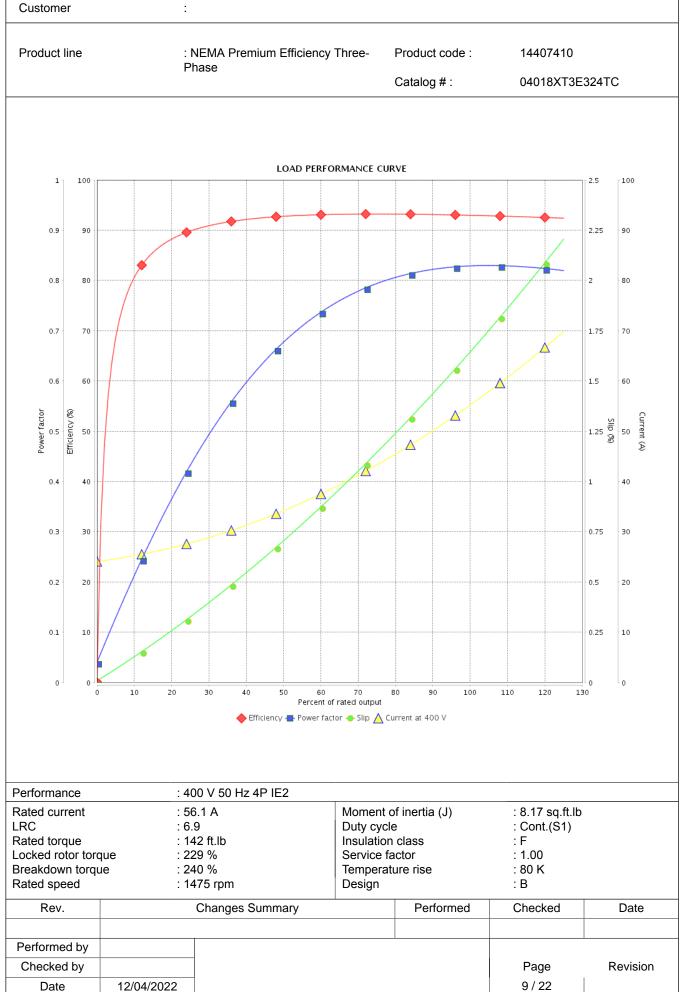


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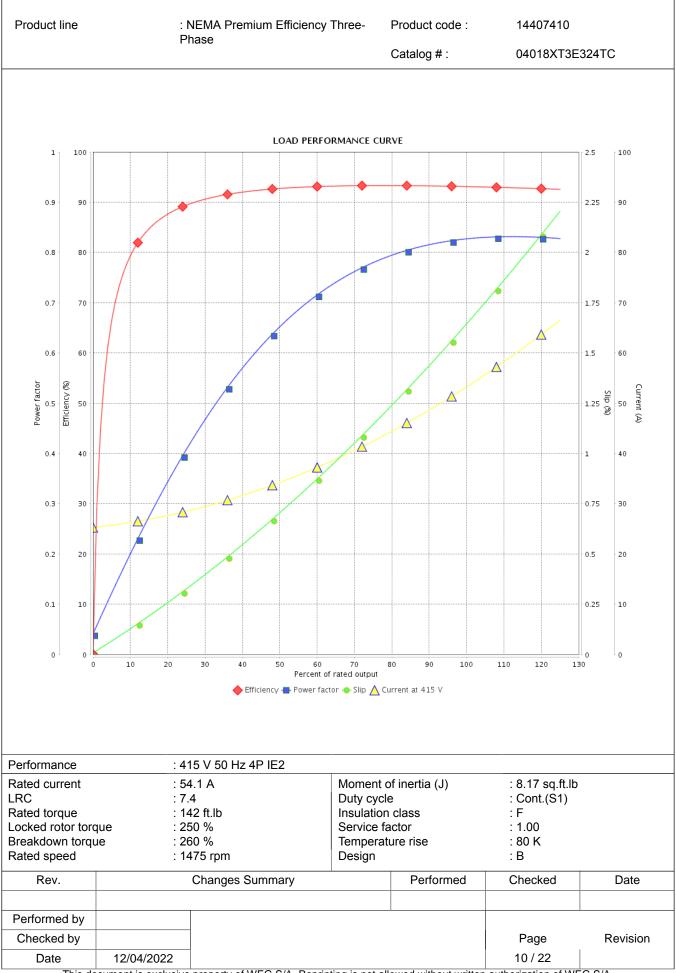
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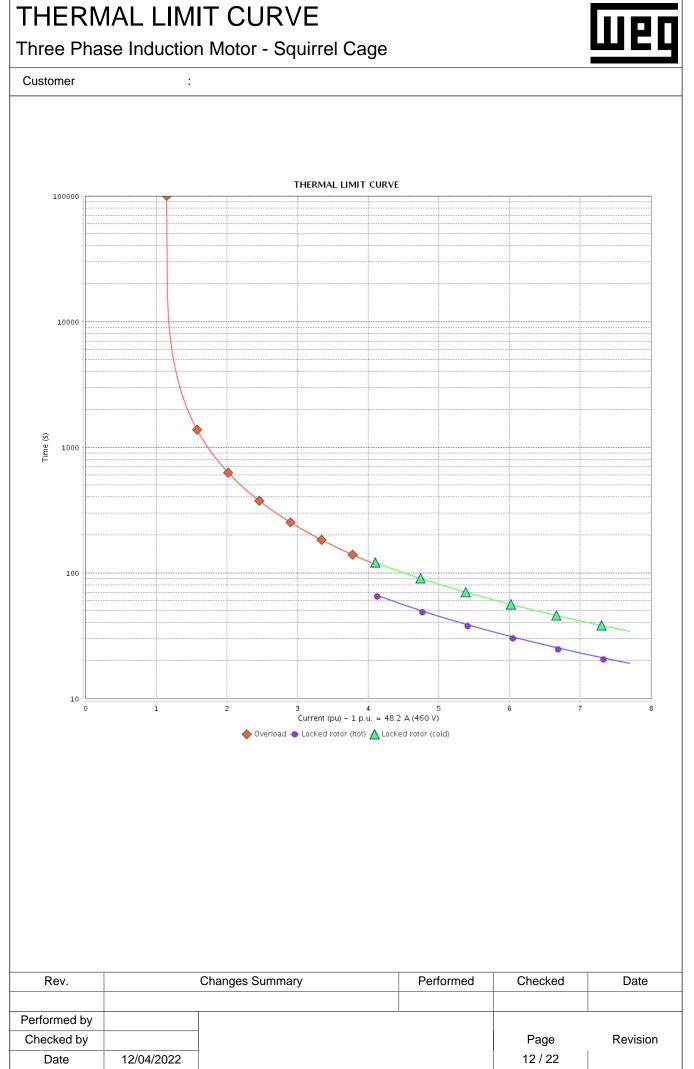
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407410
	Phase	Catalog # :	04018XT3E324TC

Шеq

Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7 : 1 iue : 2 ie : 3 : 1	4/48.2 AMoment of inertiaB ft.lbDuty cycle0 %Service factor0 %Temperature rise80 rpmDesign		class ctor	: 8.17 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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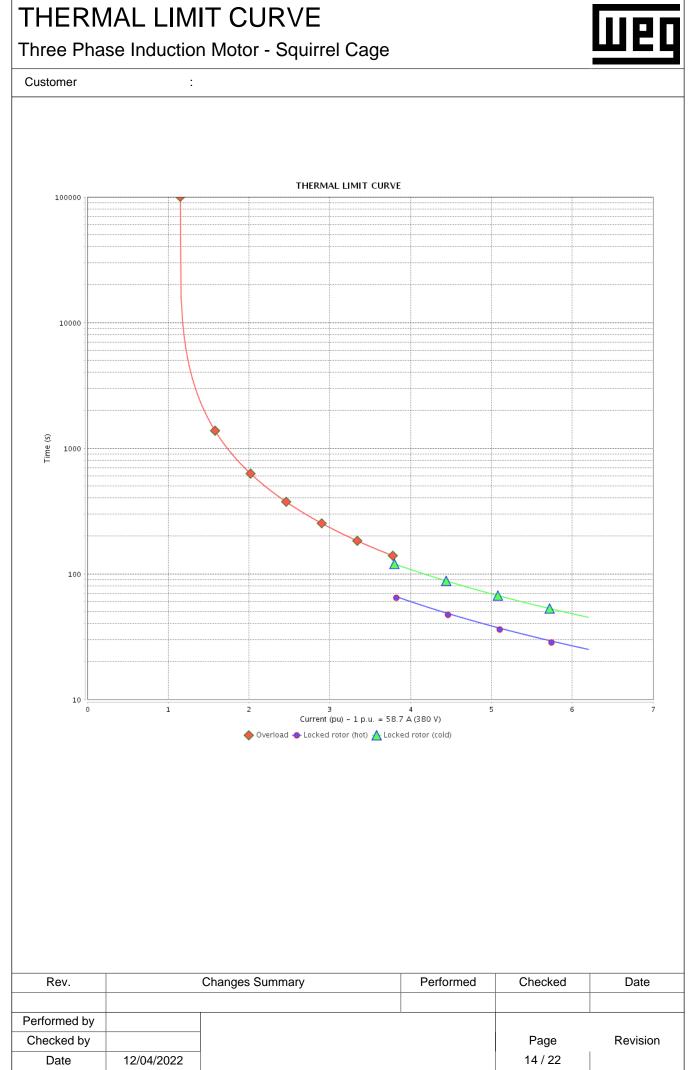
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407410
	Phase	Catalog # :	04018XT3E324TC

Шед

Performance	:	380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: : : : : : : : : : : : : : : : : : :	58.7 A 6.2 143 ft.lb 200 % 210 % 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 8.17 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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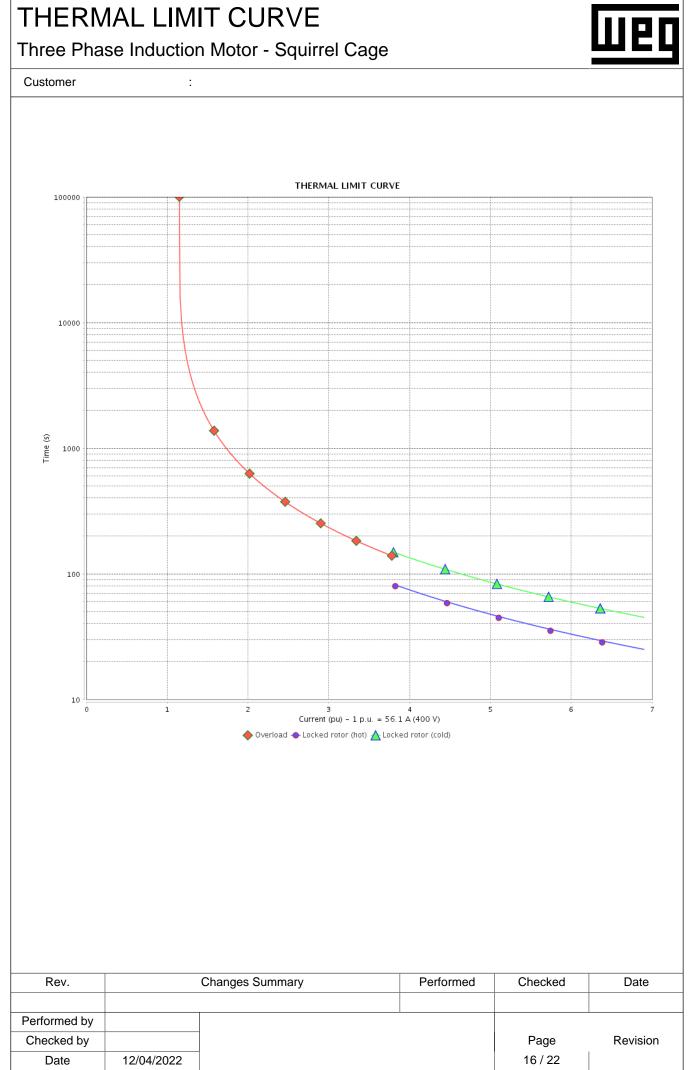
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Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407410
	Phase	Catalog # :	04018XT3E324TC

Шед

Performance	: 40	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	iue : 24	3.1 A 9 42 ft.lb 29 % 40 % 475 rpm	Duty cycleft.lbInsulation class%Service factor%Temperature rise		: 8.17 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant						
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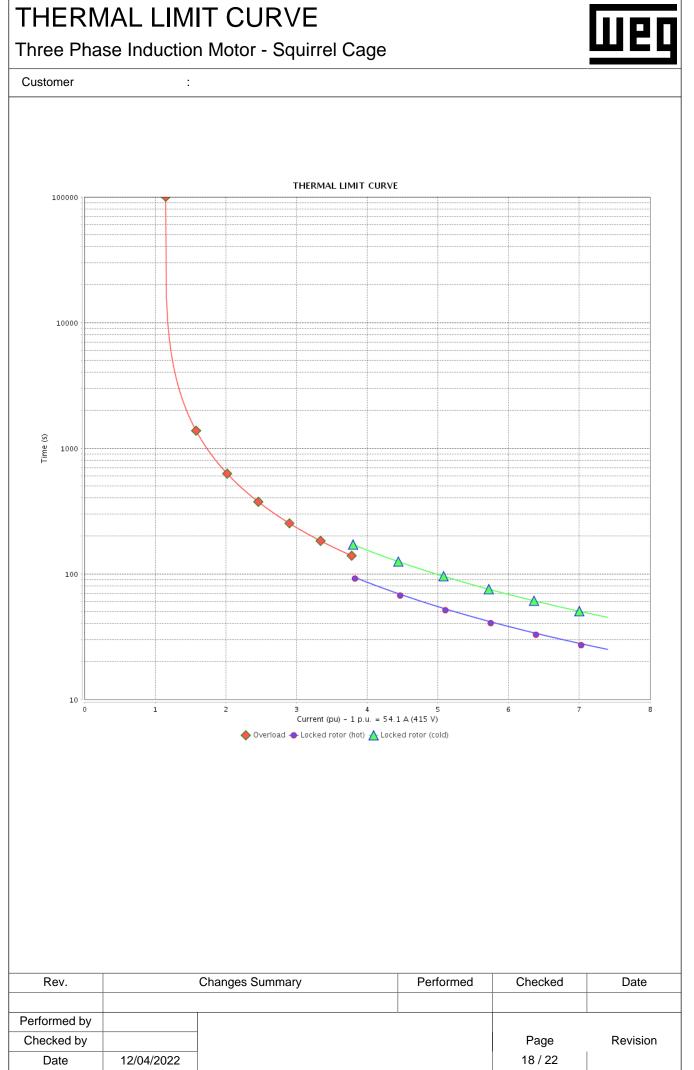
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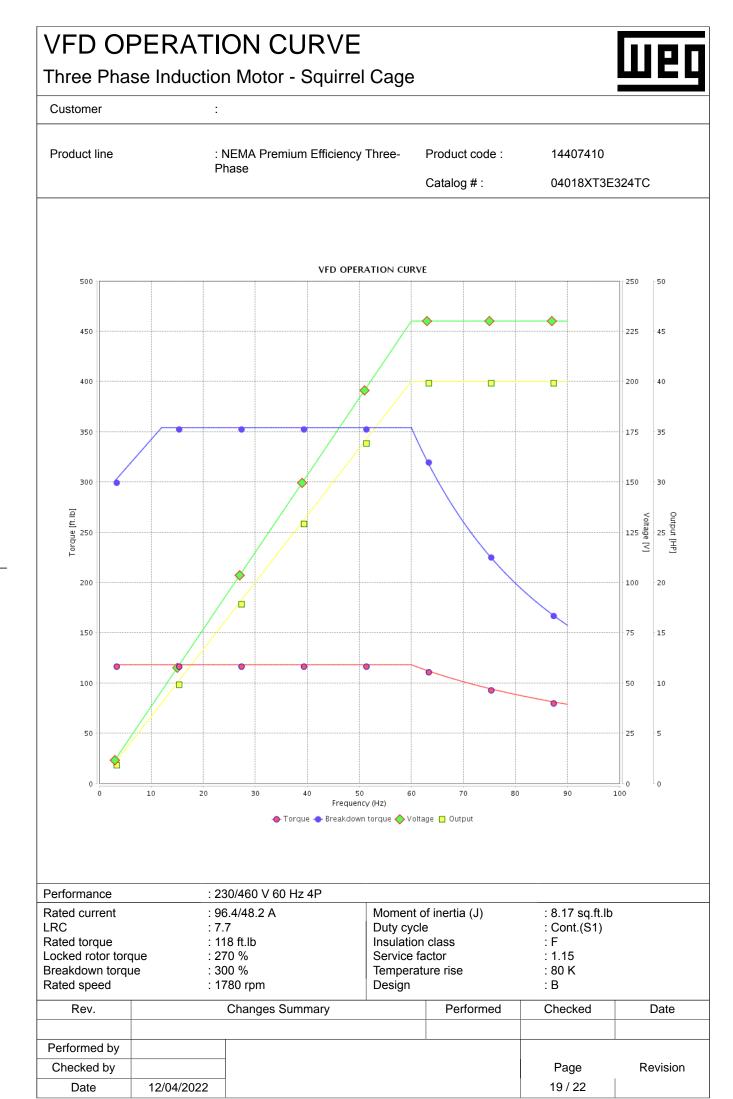
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14407410
	Fildst	Catalog # :	04018XT3E324TC

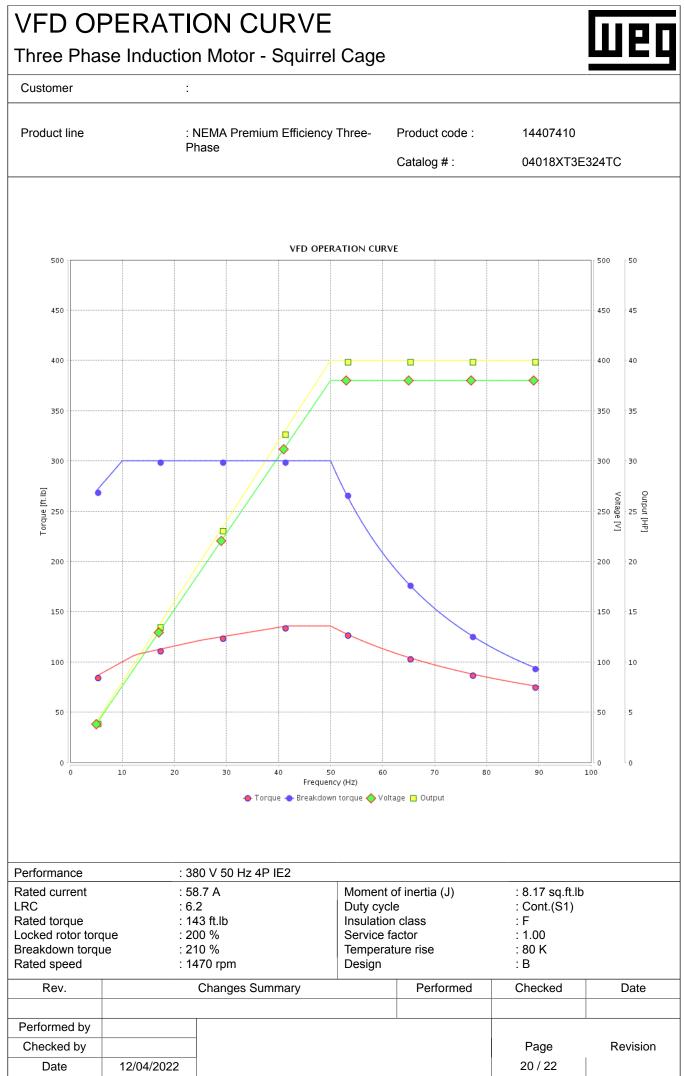
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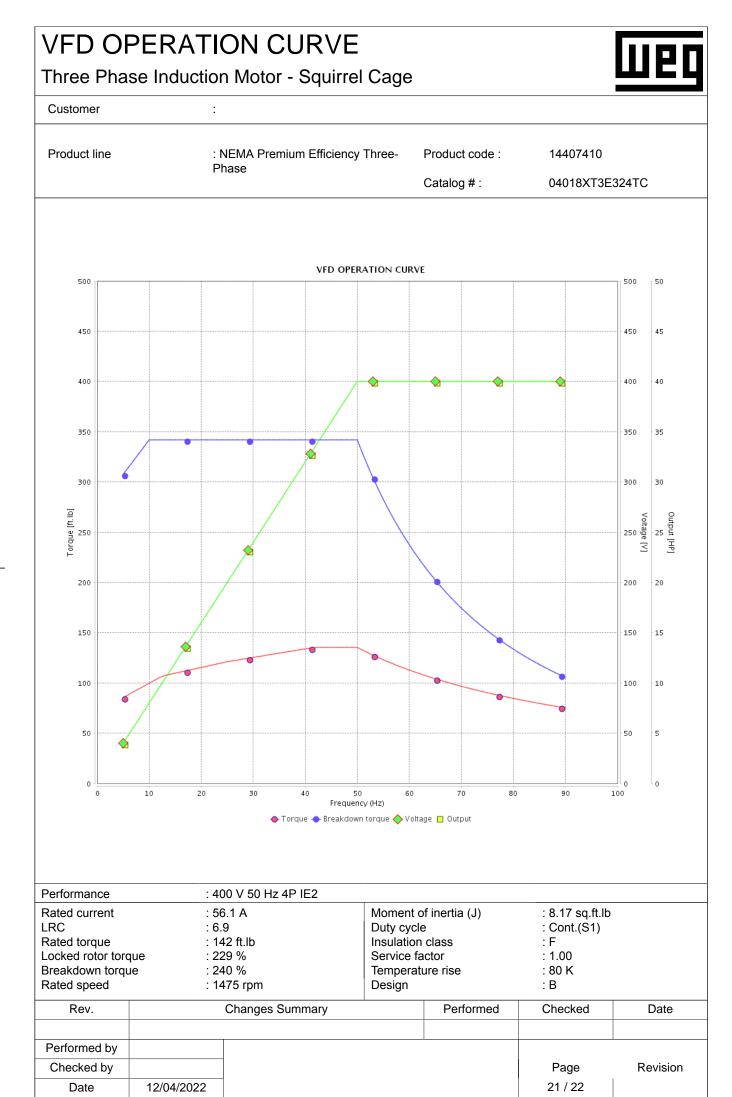
Performance		: 415 V 50 Hz 4P IE2	15 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	ie 9	: 54.1 A : 7.4 : 142 ft.lb : 250 % : 260 % : 1475 rpm	Duty cycleInsulation class6Service factor6Temperature rise		: 8.17 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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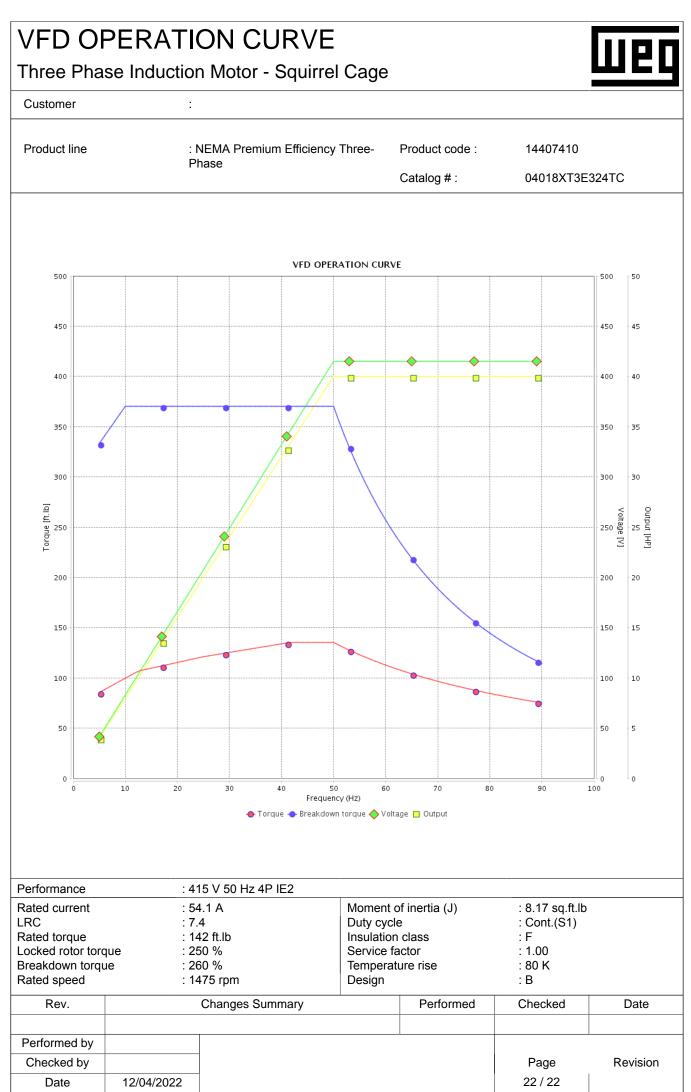


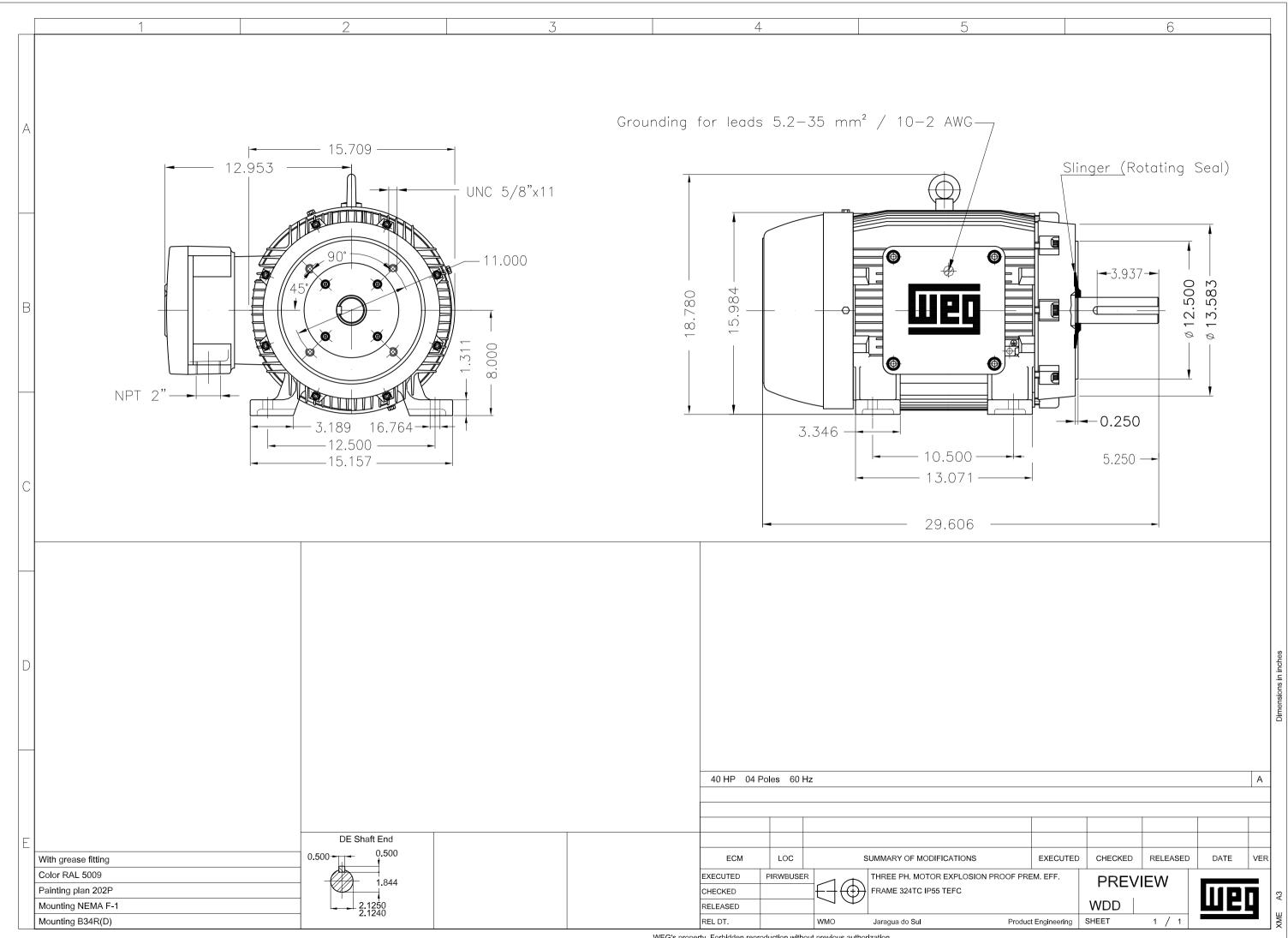
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