DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

Product line			: NEMA Premium Efficiency Three- Phase		Product code :		14407414	
		1 11030		Ca	atalog # :	03018X1	T3ER286TC	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 286TC : 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 : W-6 : Both (CW and CCW) : Direct On Line : 520 lb : 5.16 sq.ft.lb		
Output [HP]		30		30	3	0	30	
Poles		4		4	4	-	4	
Frequency [Hz]		60		50	5	0	50	
Rated voltage [V]		230/460		380	40	00	415	
Rated current [A]		72.0/36.0		43.4		.4	40.4	
L. R. Amperes [A]		569/284		278	29		311	
LRC [A]		7.9x(Code G)	6.4	4x(Code F)		ode G)	7.7x(Code G)	
No load current [A		29.0/14.5		14.5		5.5	16.5	
Rated speed [RPN	/]	1770		1460		65	1470	
Slip [%]		1.67		2.67		33	2.00	
Rated torque [ft.lb]		89.0		108		08	108	
Locked rotor torqu		310		229		60	290	
Breakdown torque	[%]	310	229		26		290	
Service factor		1.15		1.00	1.0		1.00	
Temperature rise		80 K	80 K			K	80 K	
Locked rotor time		30s (cold) 17s (hot)	36s (cold) 20s (h				36s (cold) 20s (hot)	
Noise level ²	050/	68.0 dB(A)	64.0 dB(A)		64.0 0		64.0 dB(A)	
Efficiency (%)	25%	92.8		93.5	93		92.7	
	50%	93.0	93.0		93		92.4	
	75%	93.6		92.4	93		93.0	
	100%	93.6		91.7	92		92.4	
	25%	0.42		0.47		44	0.42	
Power Factor	50%	0.66		0.71		68	0.66	
	75% 100%	0.77		0.80 0.84		78	0.77 0.82	
Bearing type	100%	Drive end Non dr	rive end 11 C3	Foundation		I	0.82	
Sealing		: Oil Seal Lip		Max. traction: 1096 lbMax. compression: 1615 lb				
Lubrication interv	/al	-	608 h			. 101010		
Lubricant amoun			11 g					
Lubricant type	-	: Mobil Polyrex B						
Notes USABLE @208V	79.6A SF 1.	00 SFA 79.6A						
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	icel the previous one, where shaft end. olerance of +3dB(A). t to changes after	hich				s with sinusoidal tipulated in NEMA	
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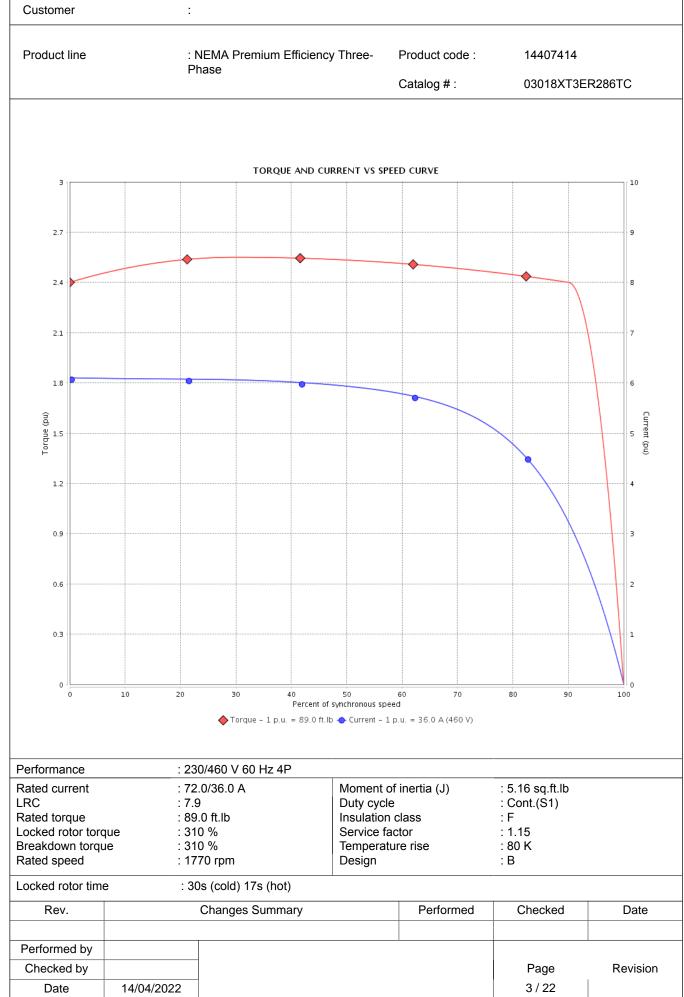


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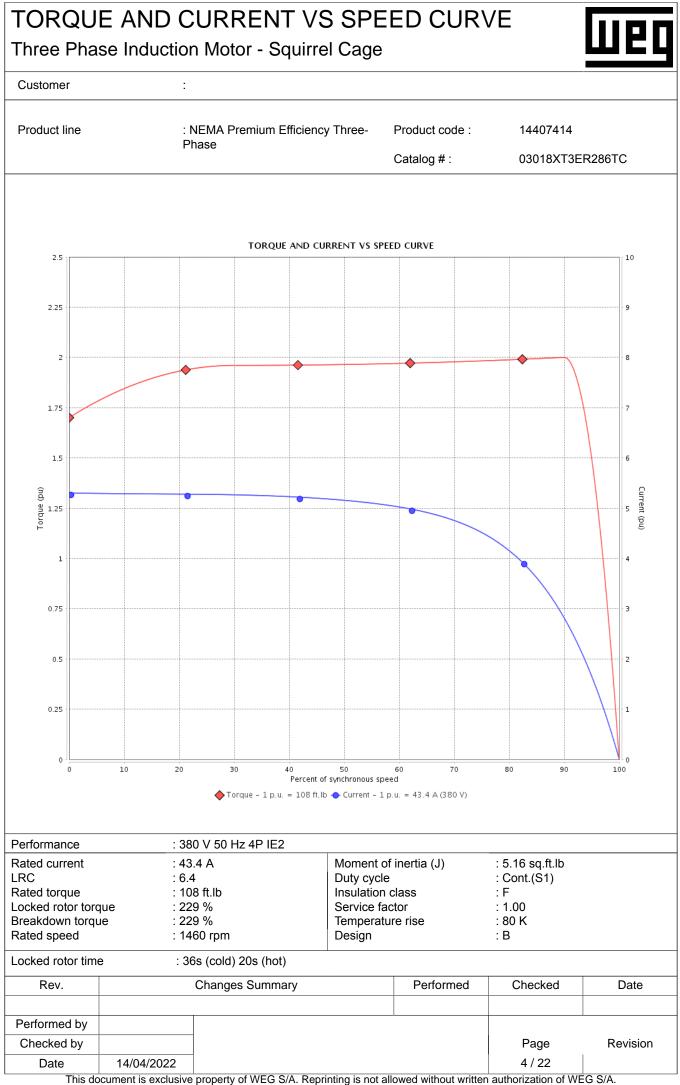
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TORQUE AND CURRENT VS SPEED CURVE

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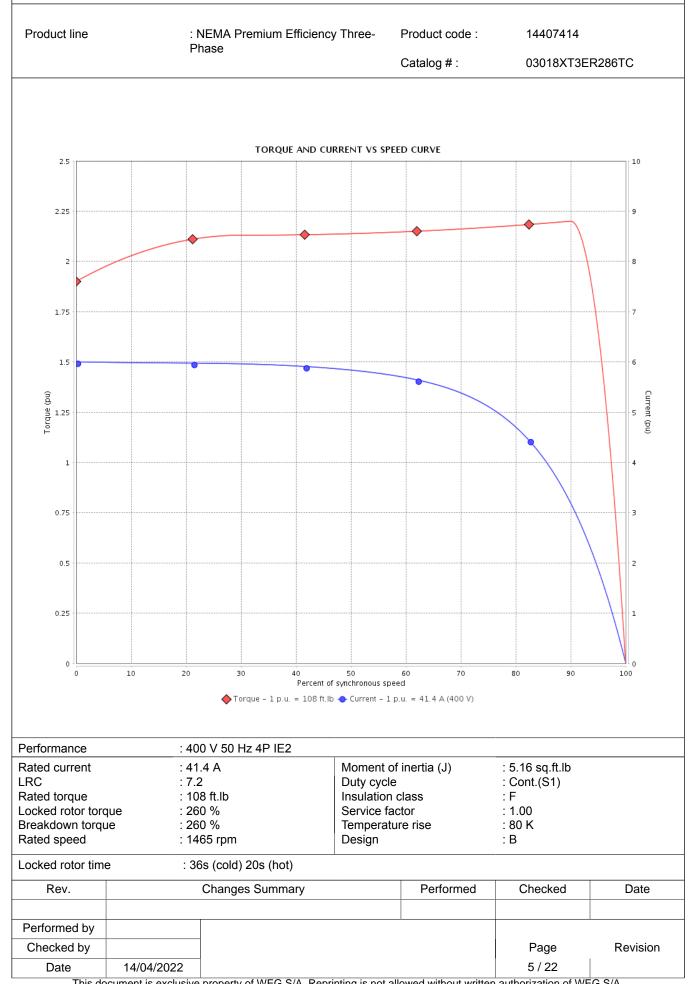
TORQUE AND CURRENT VS SPEED CURVE

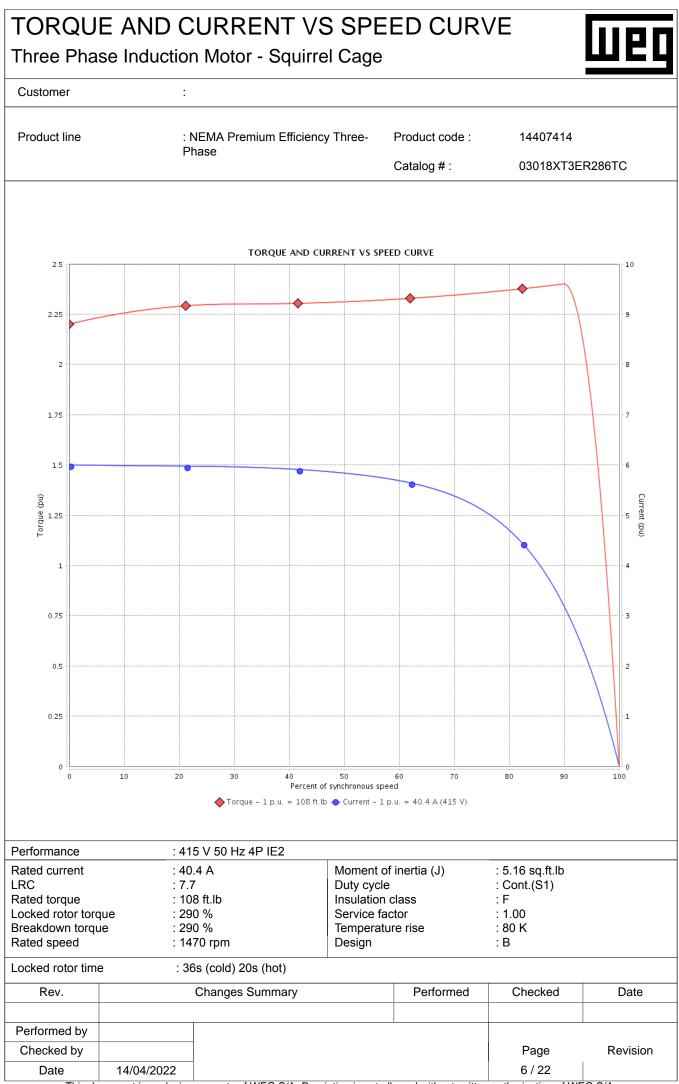
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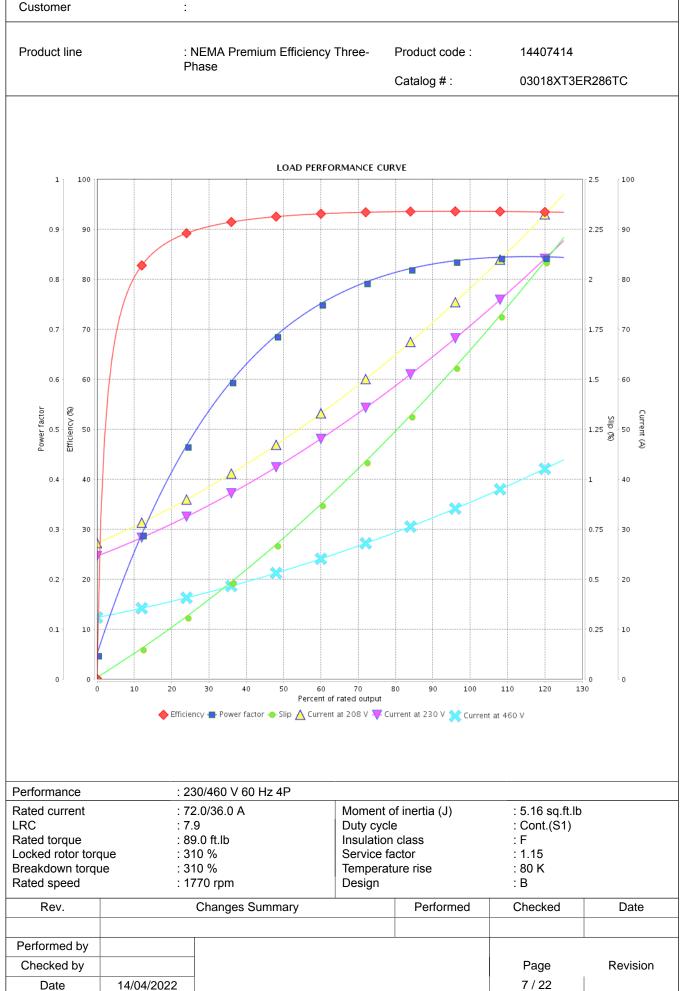
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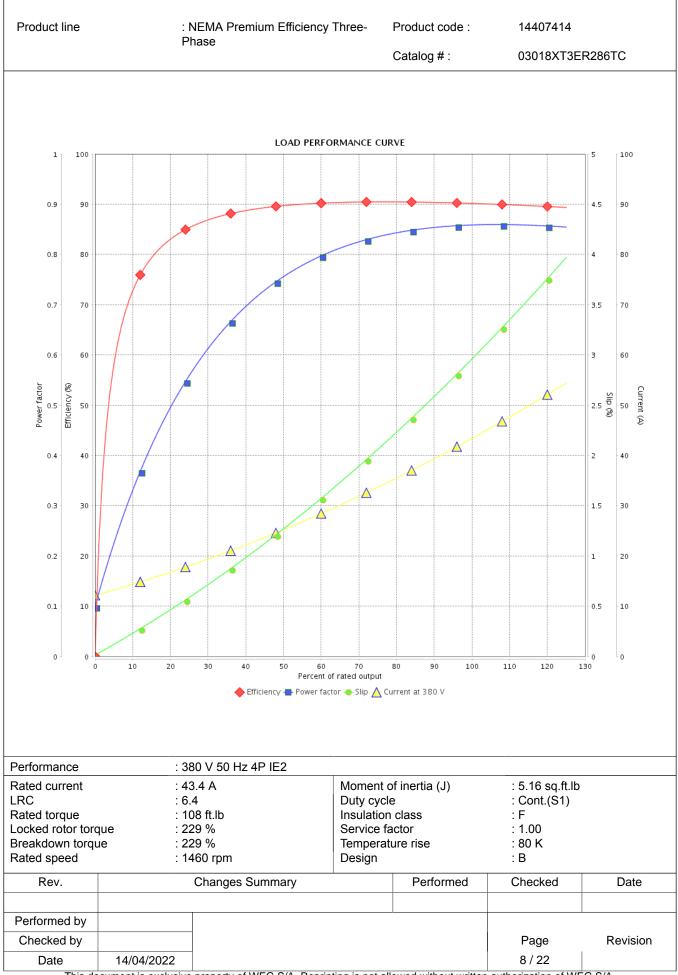
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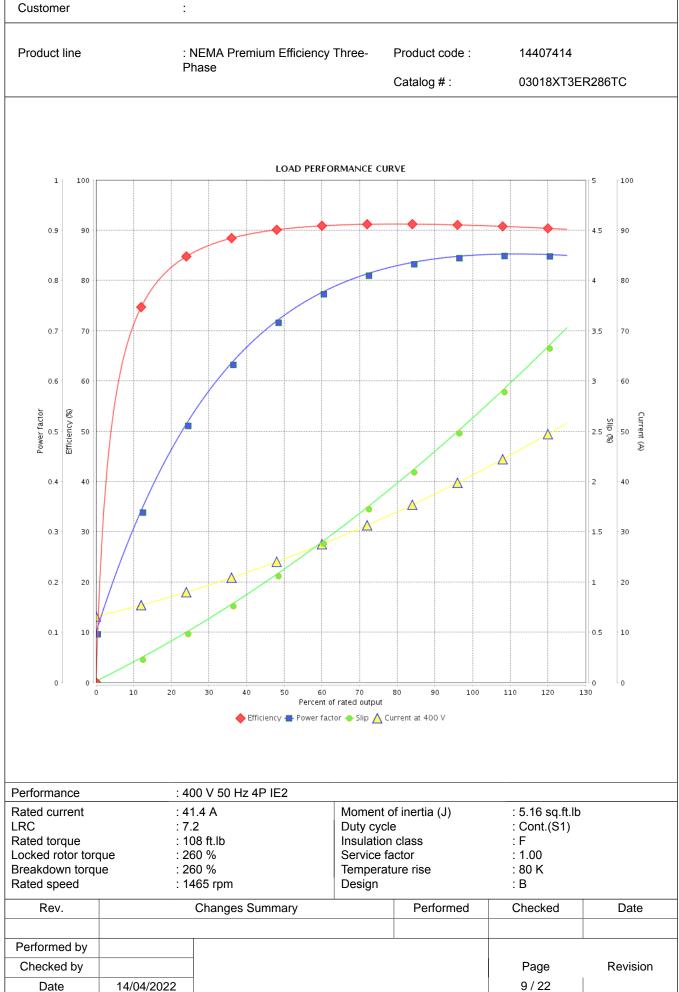


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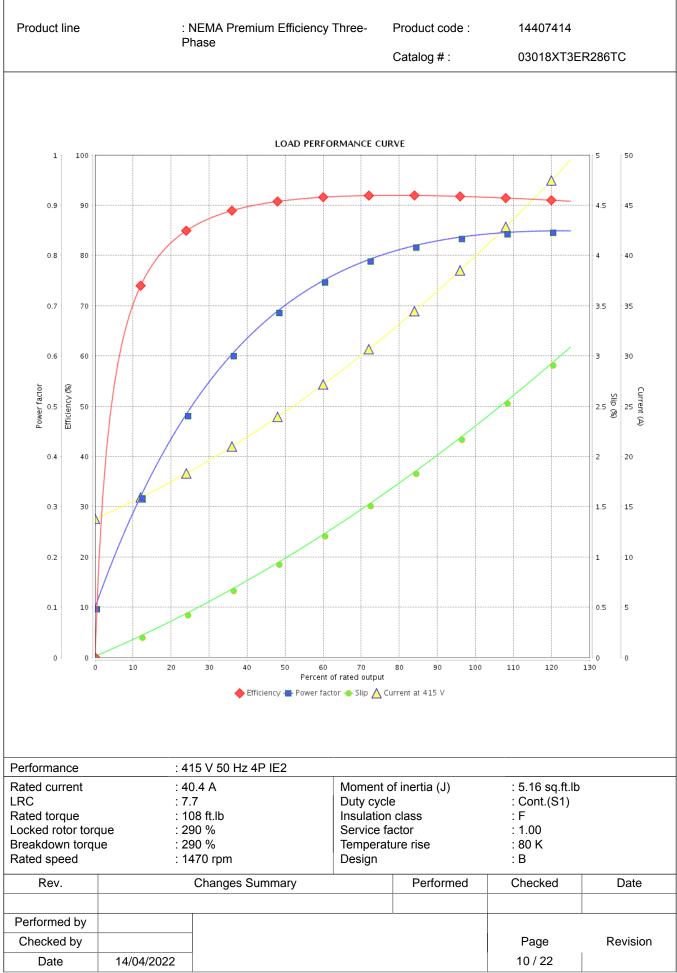
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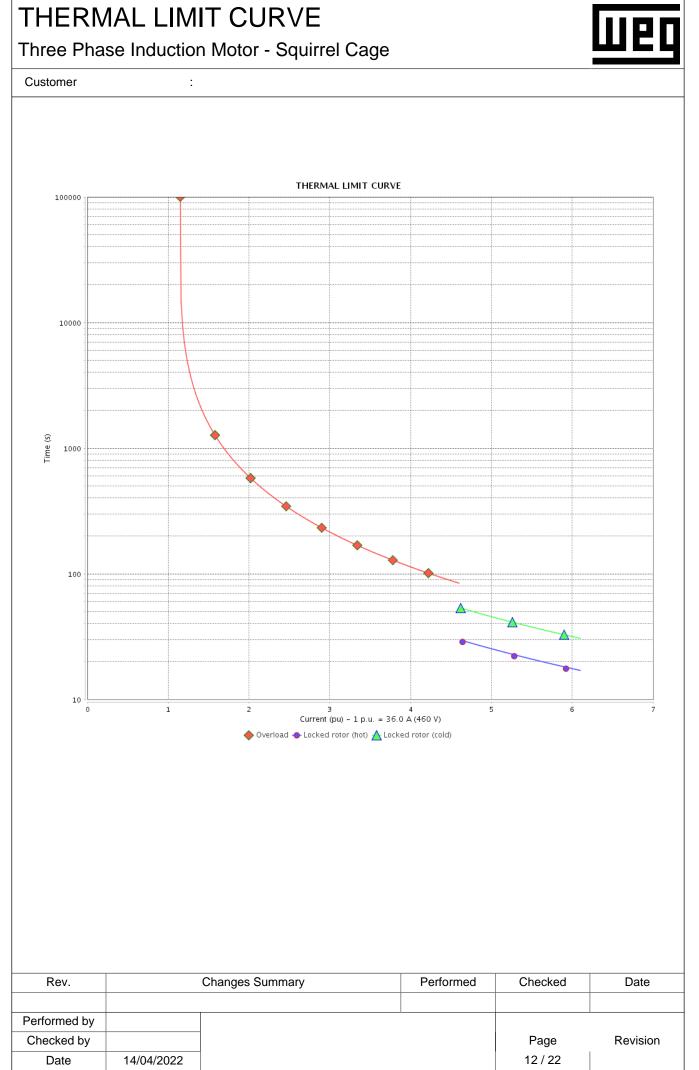
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Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407414
	Phase	Catalog # :	03018XT3ER286TC

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Performance	:2	230/460 V 60 Hz 4P									
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 7 : 8 jue : 3	72.0/36.0 A 7.9 89.0 ft.lb 310 % 310 % 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B						
Heating constant	1				·						
Cooling constant											
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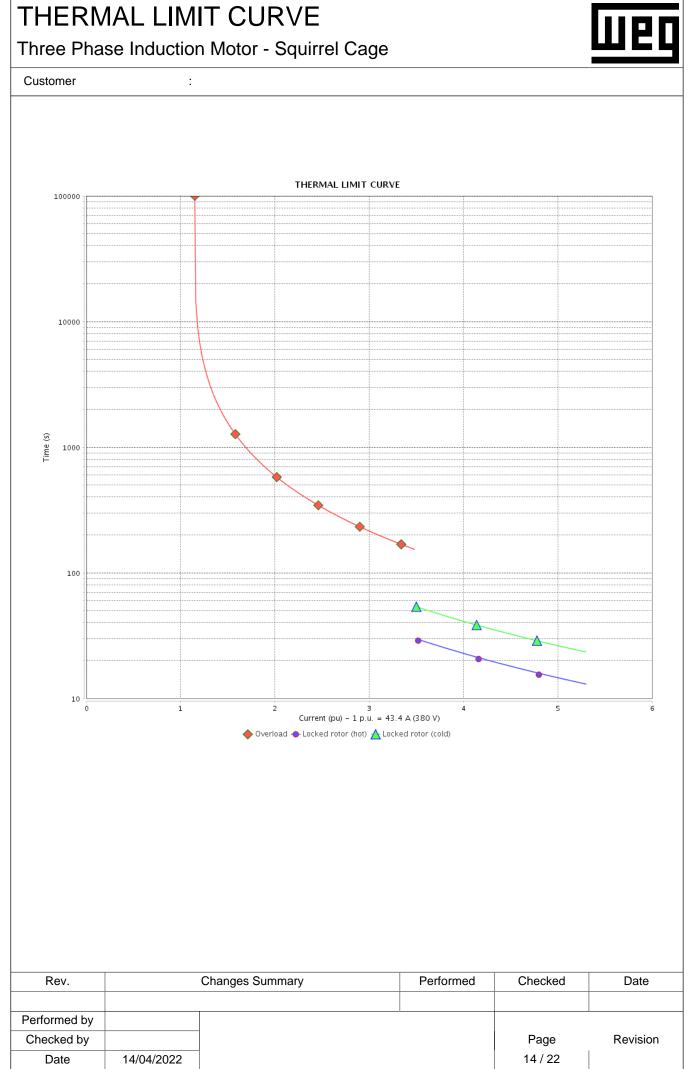
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407414
	Phase	Catalog # :	03018XT3ER286TC

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Performance	: 38	: 380 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 10 jue : 22	3.4 A 4 08 ft.lb 29 % 29 % 460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle Insulation class Service factor Temperature rise		: 5.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Cooling constant								
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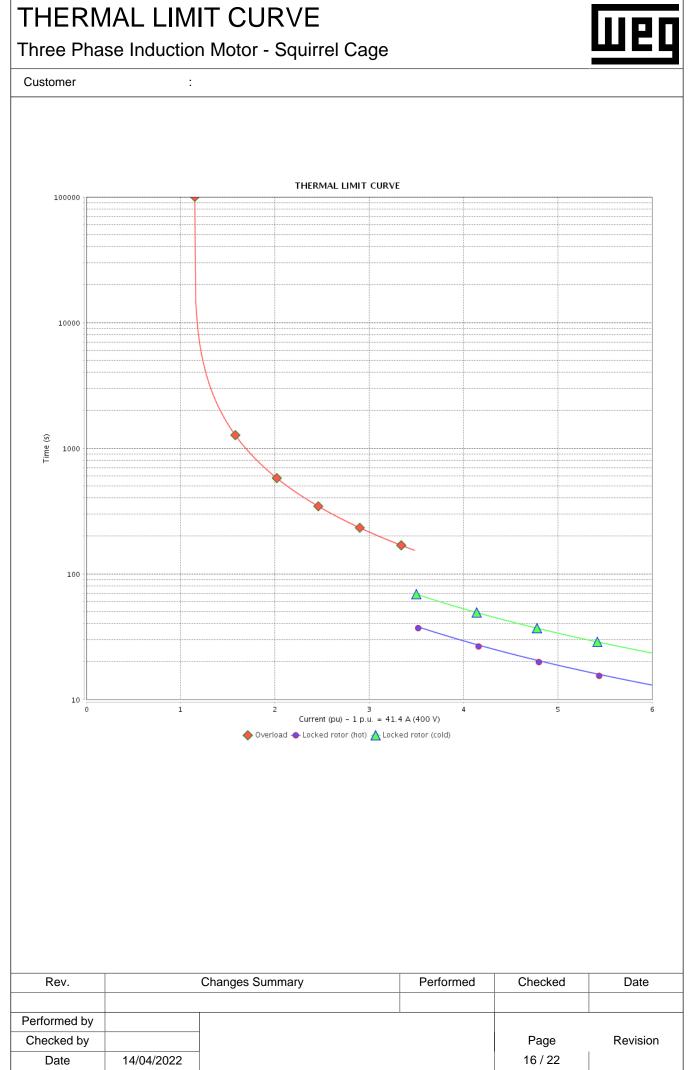
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Product line	: NEMA Premium Efficiency Three-	Product code :	14407414
	Phase	Catalog # :	03018XT3ER286TC

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Performance	: 40	: 400 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	iue : 20	1.4 A .2 08 ft.lb 60 % 60 % 465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle Insulation class Service factor Temperature rise		: 5.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	[
Cooling constant								
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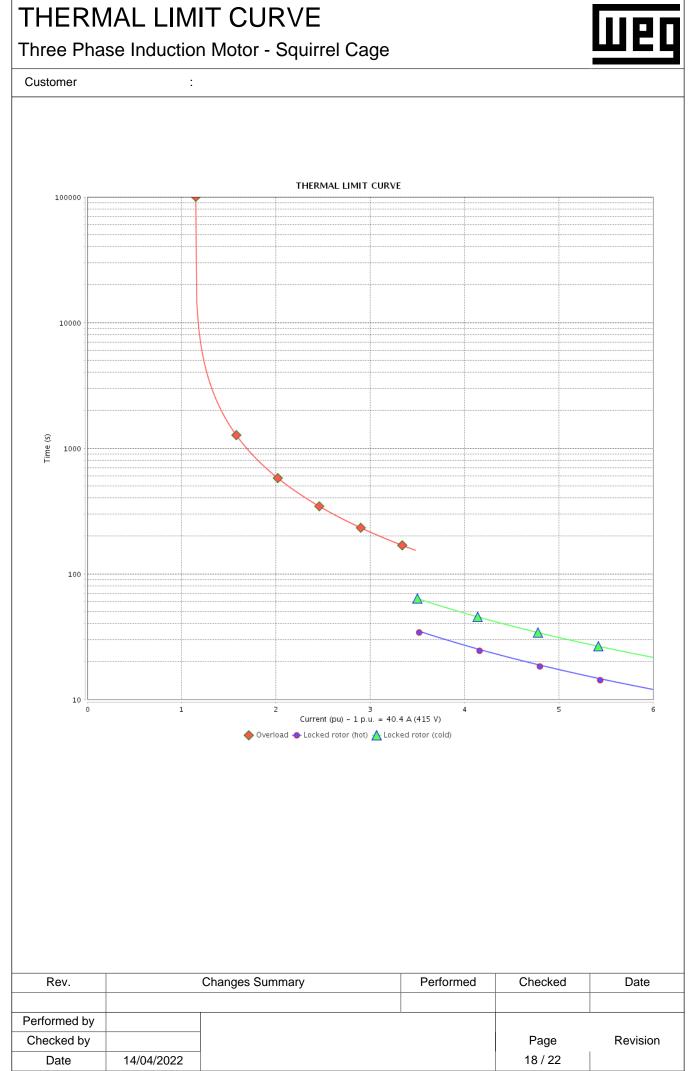
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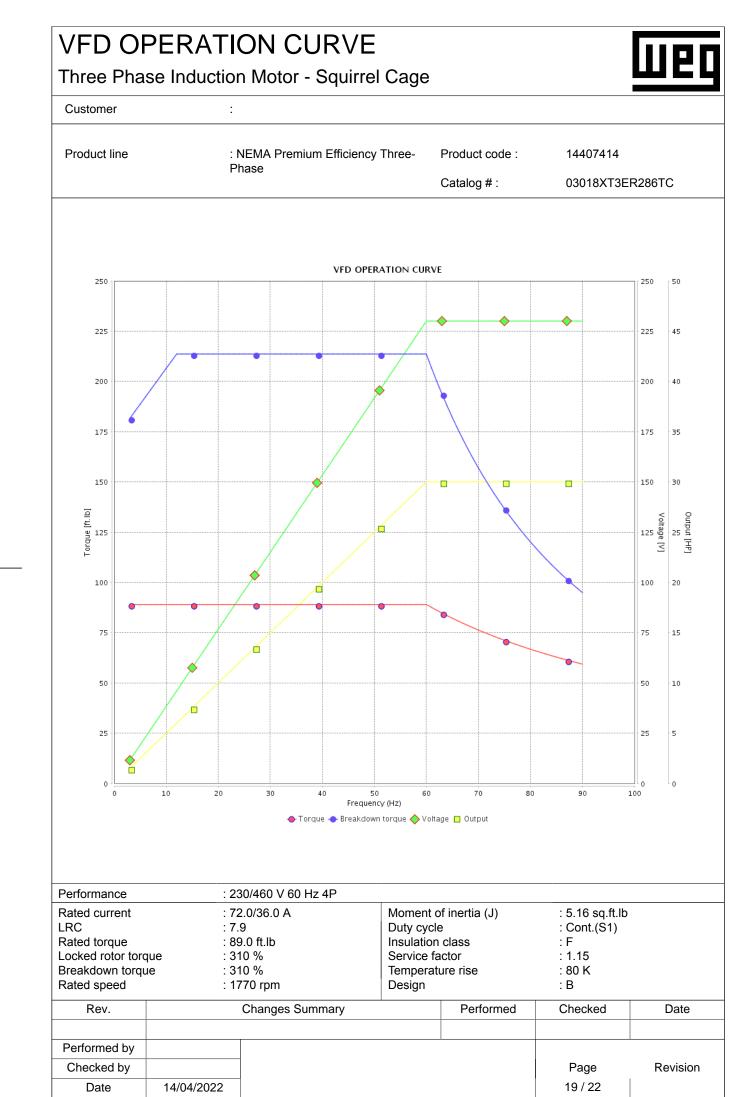
Product line	: NEMA Premium Efficiency Three-	Product code :	14407414
	Phase	Catalog # :	03018XT3ER286TC

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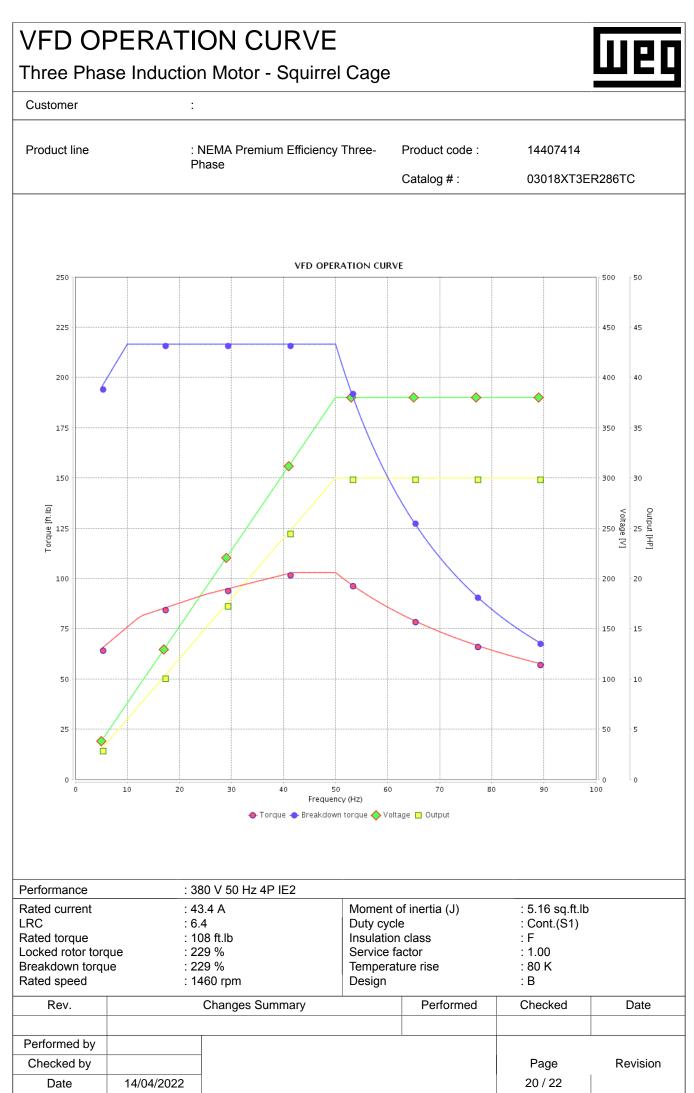
Performance	: 47	15 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 10 jue : 29 ie : 29	0.4 A 7 08 ft.lb 90 % 90 % 470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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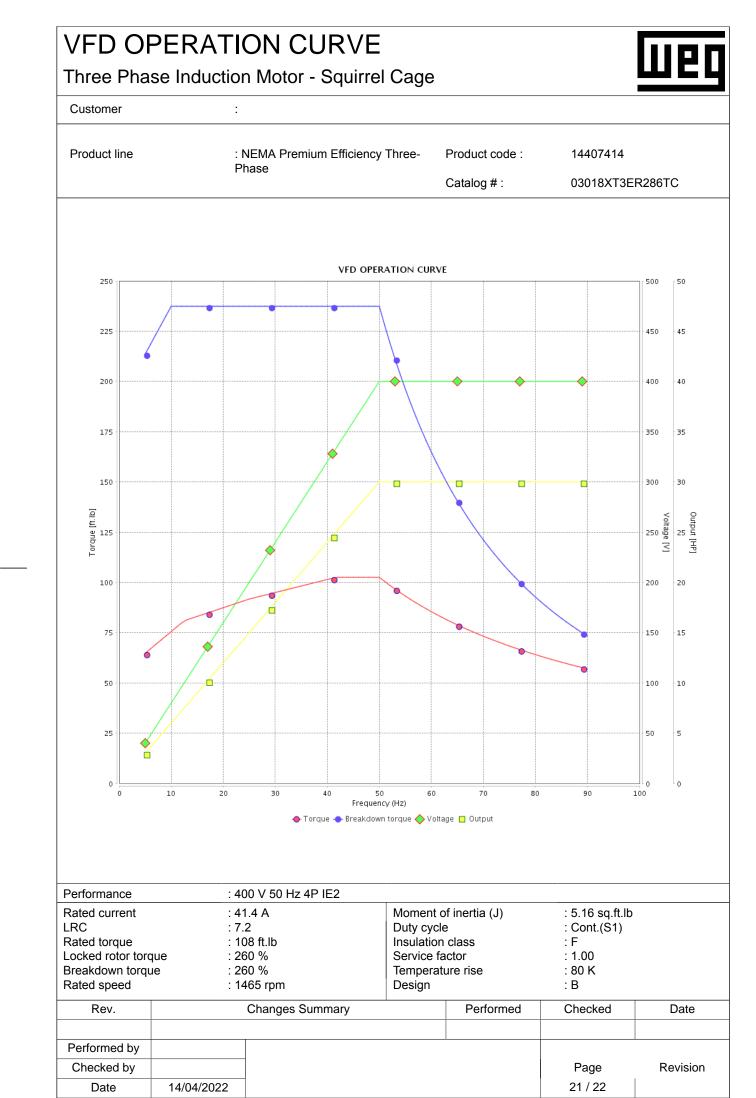
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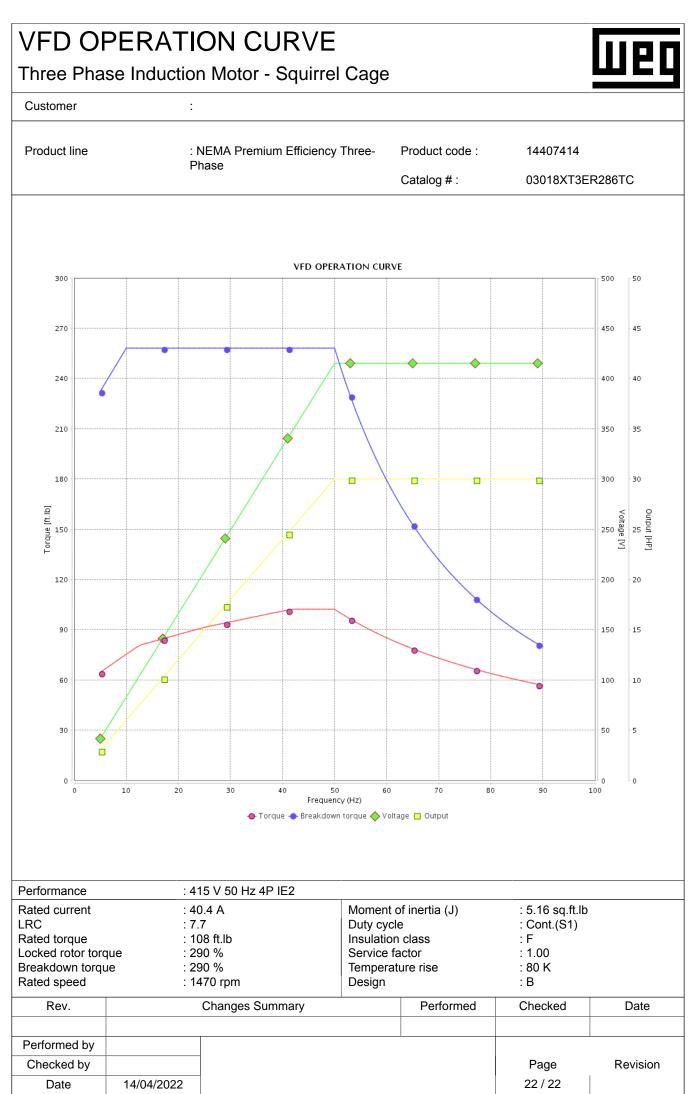
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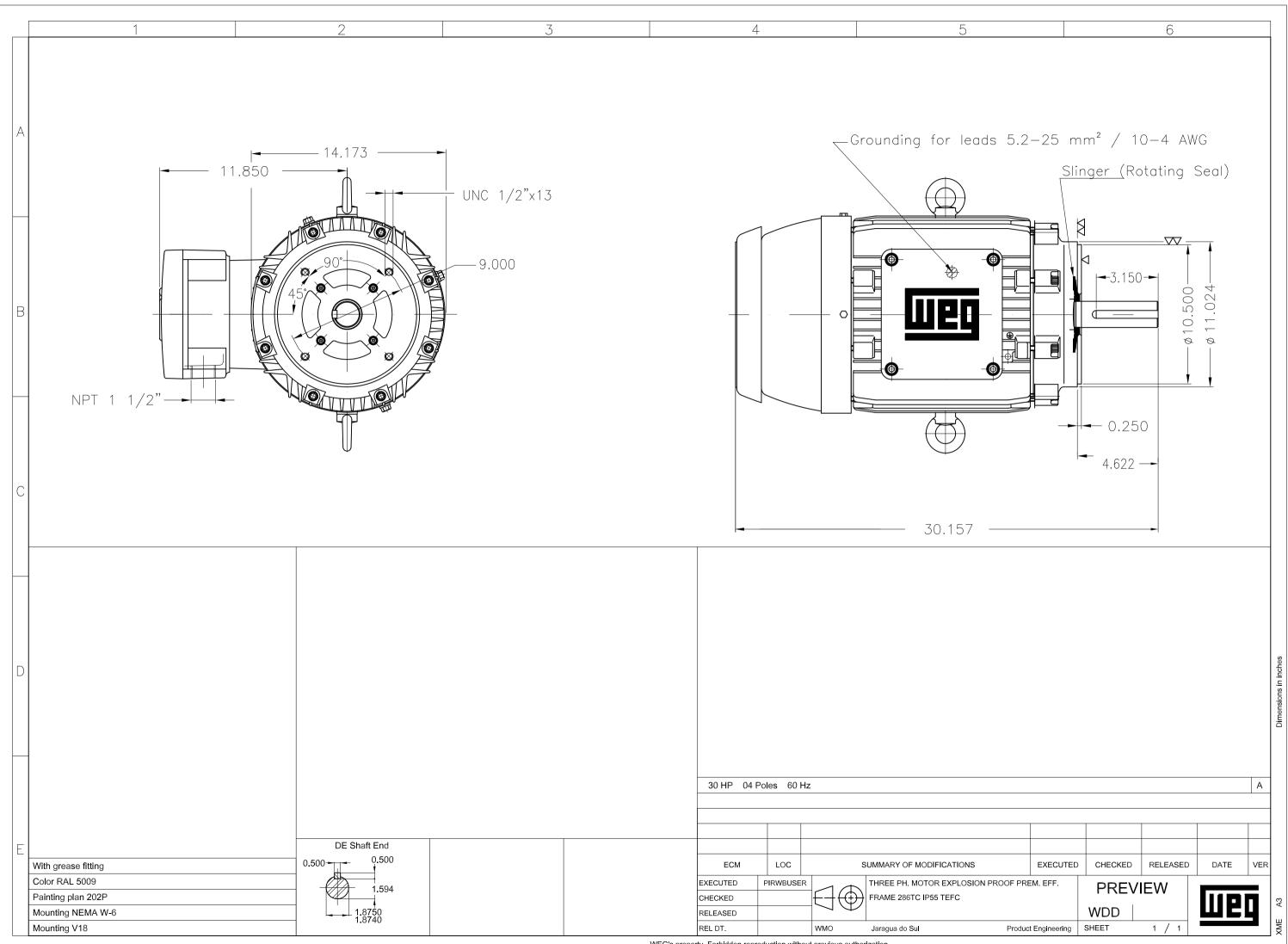
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