DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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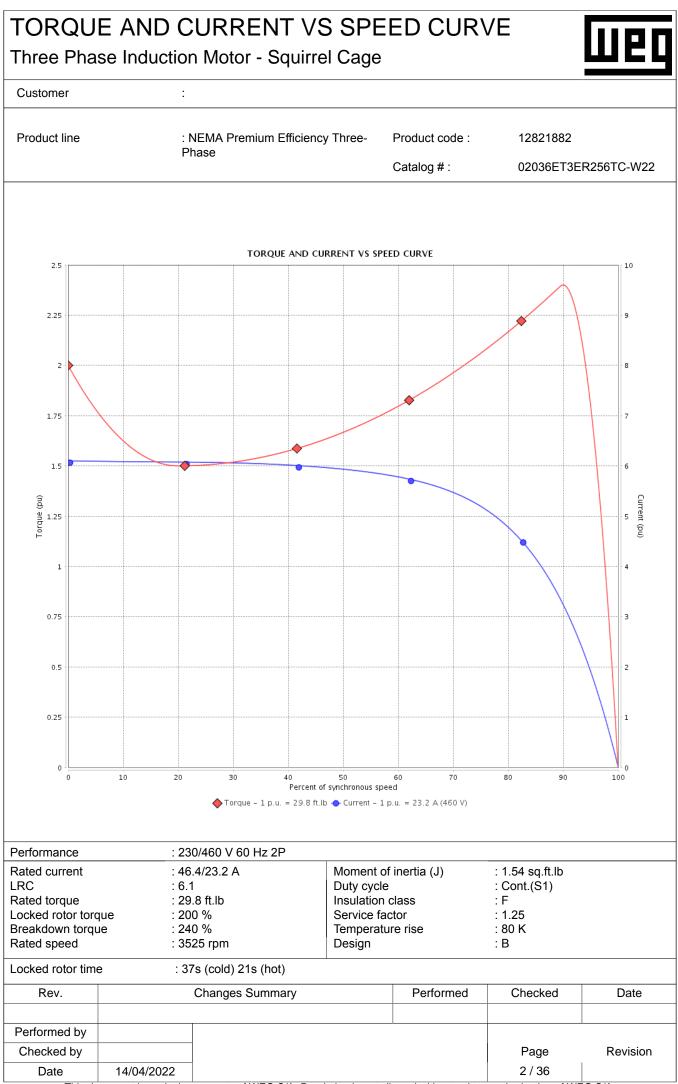
Customer

Product line		5			Product code :		12821882		
Phase				Catalog # :	02	02036ET3ER256TC-W22			
Frame		: 256TC			g method		C411 - TEFC		
Insulation class		: F		Mount			V-6		
Duty cycle Ambient tempera	aturo	: Cont.(S1) : -20°C to +	40°C	Rotatio	g method		Both (CW and Direct On Line		
Altitude	ature	: 1000 m.a.:			k. weight ³		108 lb		
Protection degre	e	: IP55	5.1.		nt of inertia (J)		.54 sq.ft.lb		
Design		: B							
Output [HP]		20	15	15	15	20	20	20	
Poles		20	2	2	2	20	20	20	
Frequency [Hz]		60	50	50	50	50	50	50	
Rated voltage [V]		230/460	380	400	415	380	400	415	
Rated current [A]		46.4/23.2	20.4	19.6	19.1	28.9	27.2	26.2	
. R. Amperes [A]		283/142	141	151	155	147	155	160	
RC [A]		6.1x(Code G)	6.9x(Code G)	7.7x(Code H)	8.1x(Code J)	5.1x(Code E)	5.7x(Code F)	6.1x(Code G)	
No load current [A]	13.0/6.50	6.20	6.60	6.90	6.20	6.60	6.90	
Rated speed [RPN		3525	2935	2945	2950	2885	2905	2915	
Slip [%]		2.08	2.17	1.83	1.67	3.83	3.17	2.83	
Rated torque [ft.lb]	29.8	26.9	26.8	26.8	36.3	36.2	36.0	
ocked rotor torqu		200	220	240	270	160	180	200	
Breakdown torque	e [%]	240	260	280	310	190	210	229	
Service factor		1.25	1.15	1.15	1.15	1.00	1.00	1.00	
emperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K	
ocked rotor time		37s (cold) 21s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	
Noise level ²		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A	
	25%	91.4	90.2	90.2	89.5	93.3	92.1	92.2	
Efficiency (%)	50%	91.0	90.6	90.4	89.8	91.0	91.0	91.0	
, (/*)	75%	91.7	90.9	91.2	91.1	90.2	91.0	91.0	
	100%	91.0	91.2	91.2	91.2	87.5	89.5	89.5	
	25%	0.57	0.54	0.50	0.48	0.63	0.60	0.57	
Power Factor	50% 75%	0.82	0.78	0.75	0.73 0.84	0.86	0.84	0.82 0.87	
	100%	0.87	0.87	0.85 0.89	0.84	0.89	0.88	0.87	
	100 %				1	0.90	0.89	0.09	
Bearing type		<u>Drive end</u> : 6309 C3		20	ition loads	-	40 lb		
			V'Rin				: 243 lb		
Sealing Lubrication interv	val	: V'Ring : 9000 h	11000	•	Max. compression		: 551 lb		
Lubricant amour		: 9000 m	9 g						
Lubricant type			I Polyrex EM						
Notes USABLE @208V	′ 51.3A SF 1.	.15 SFA 59.0A		J					
This revision repl must be eliminate (1) Looking the m (2) Measured at	ed. notor from the 1m and with t	e shaft end. tolerance of +3	dB(A).		are average va supply, subject				
 (3) Approximate with manufacturing pre- (4) At 100% of full 	ocess.								
Rev.		Changes	Summary		Performe	ed Che	ecked	Date	
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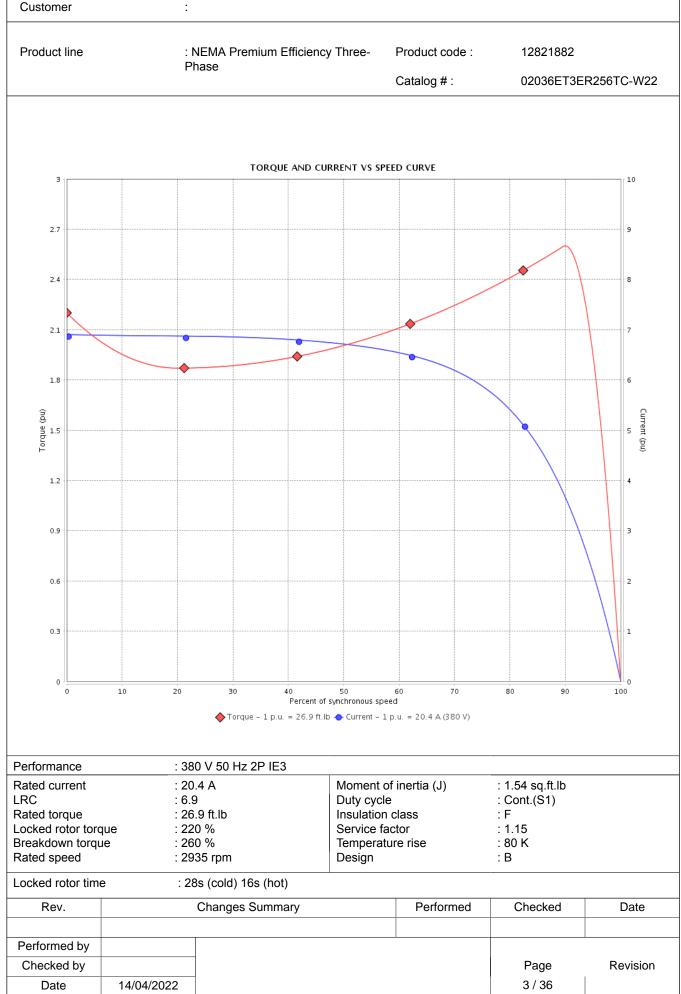
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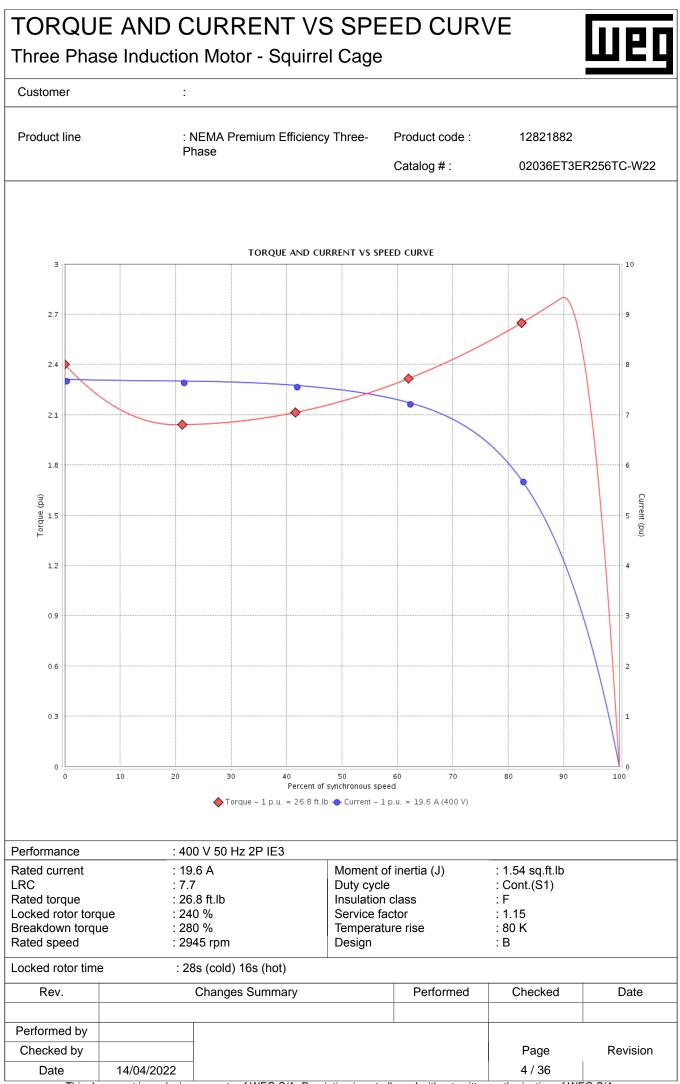
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



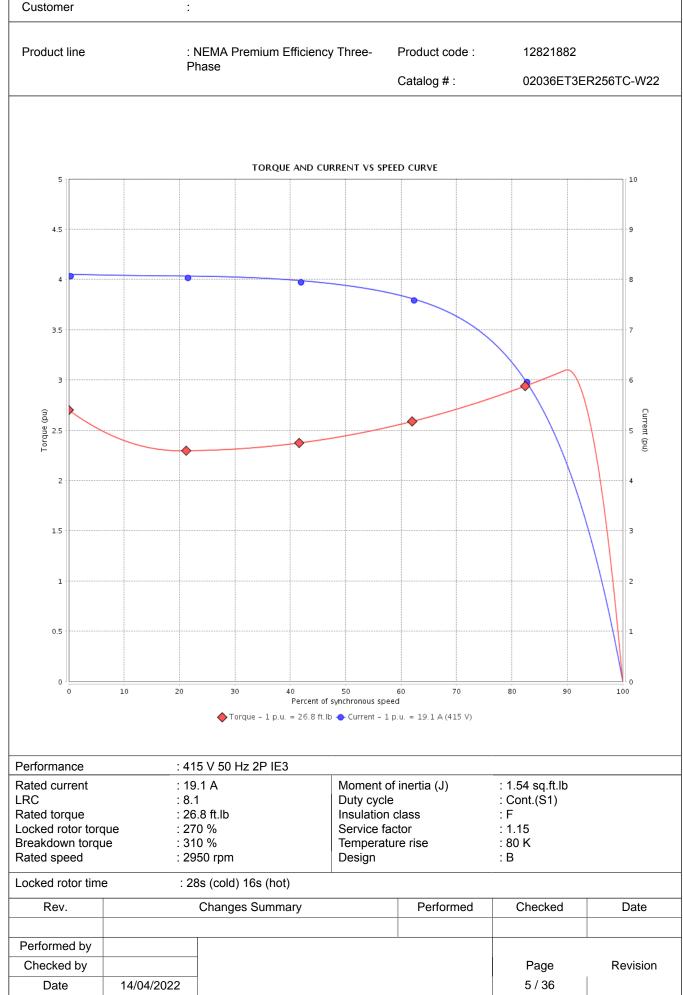
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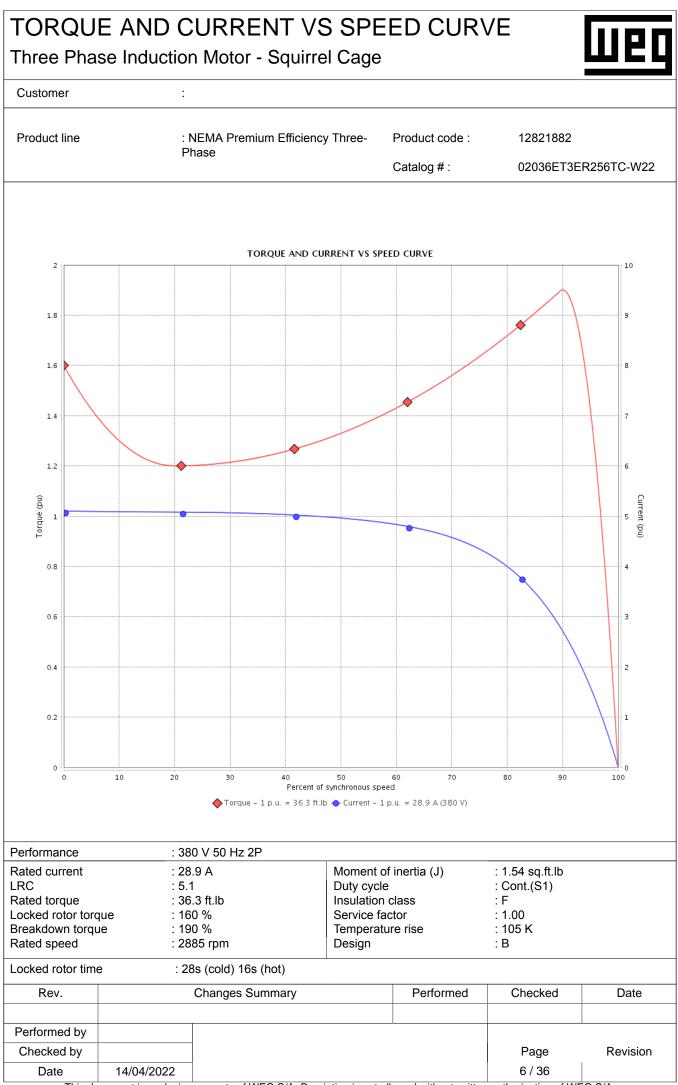
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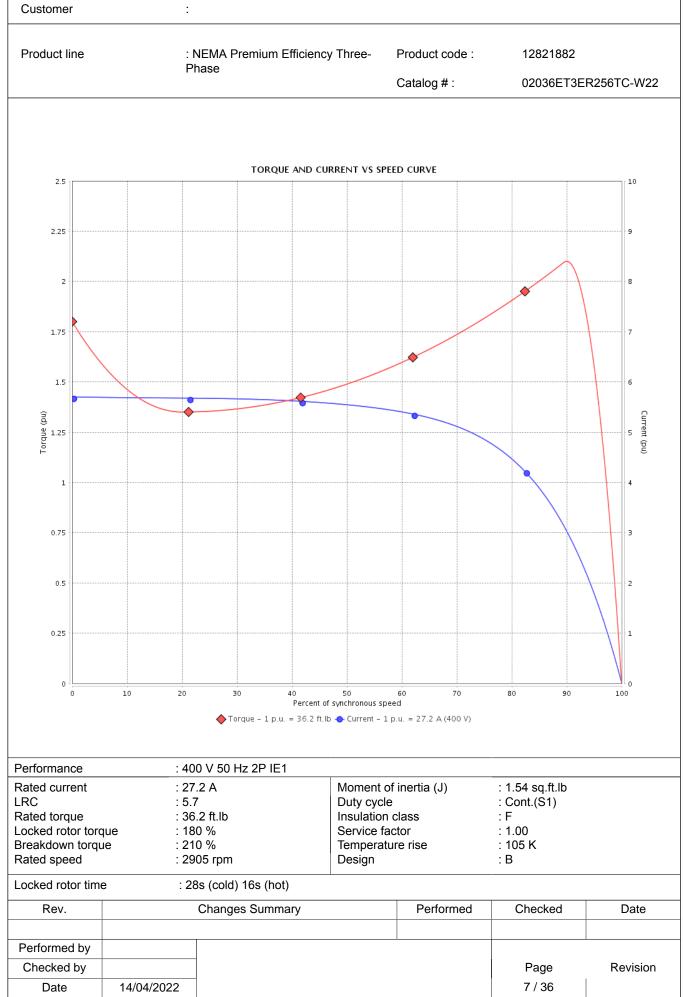


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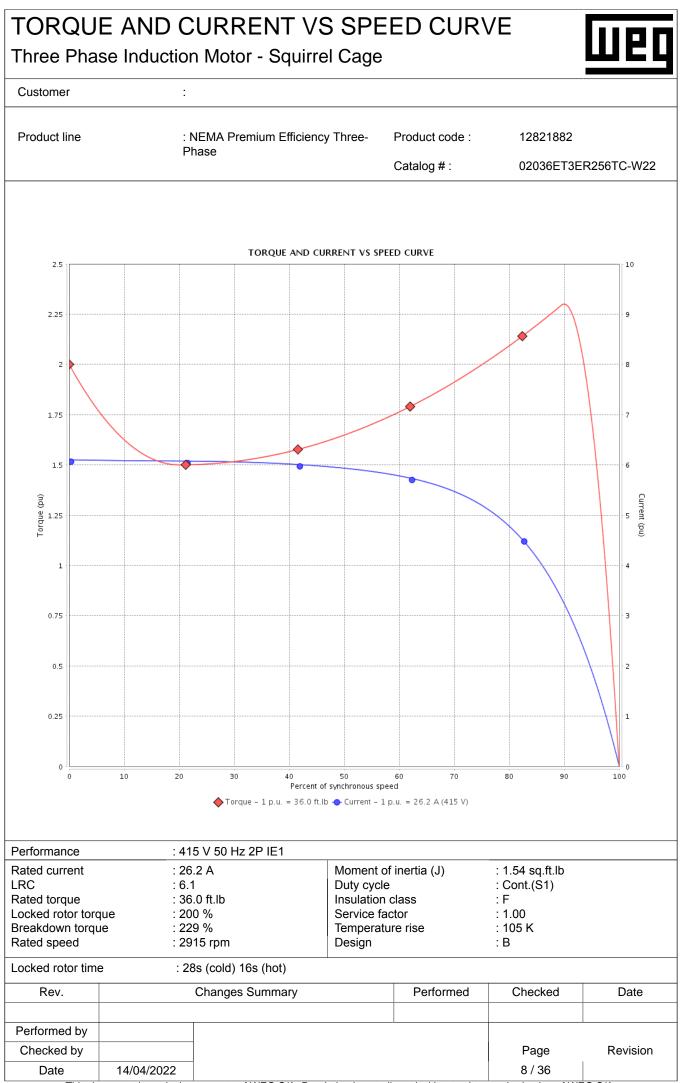


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Three Phase Induction Motor - Squirrel Cage

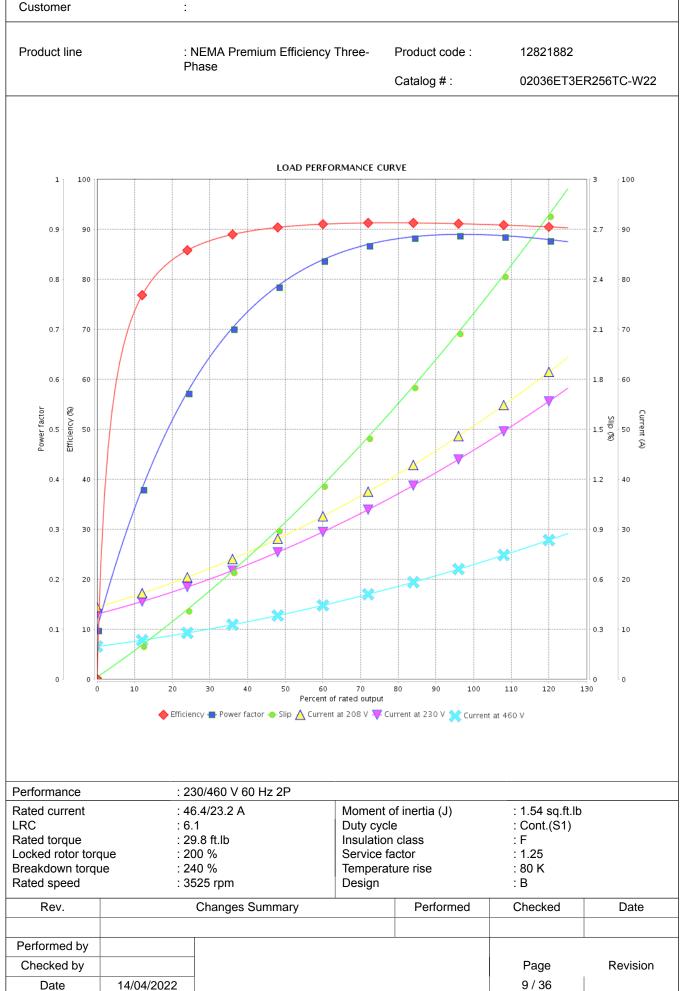


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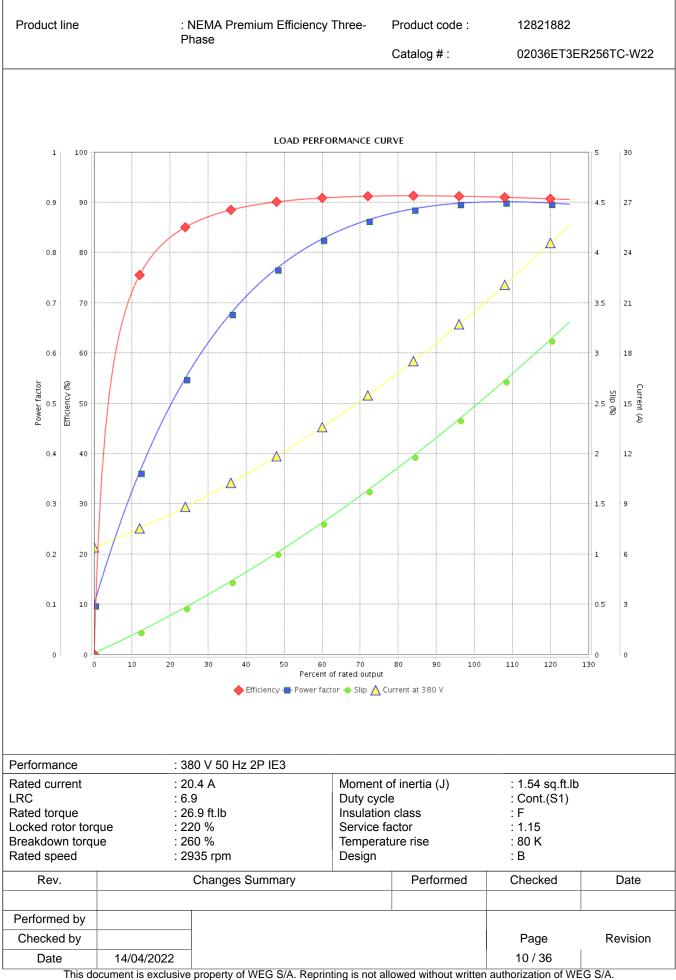
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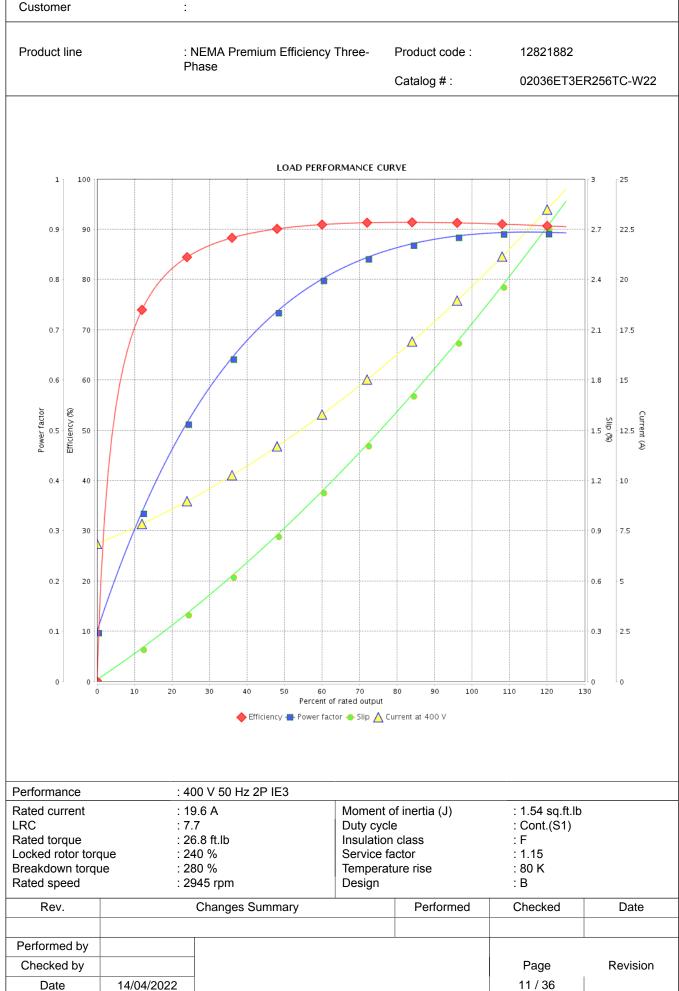


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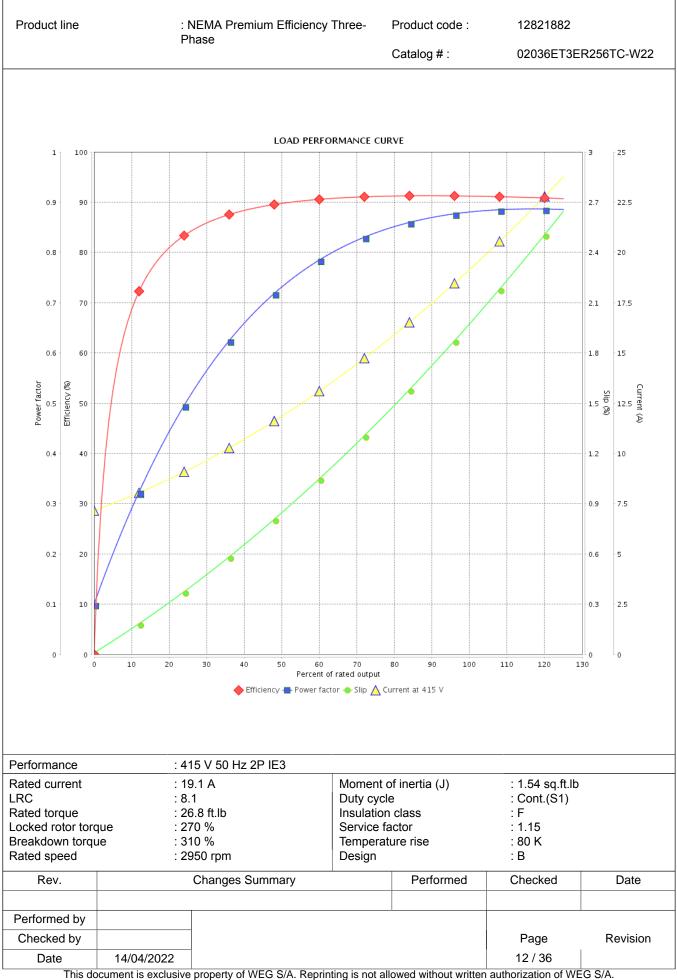
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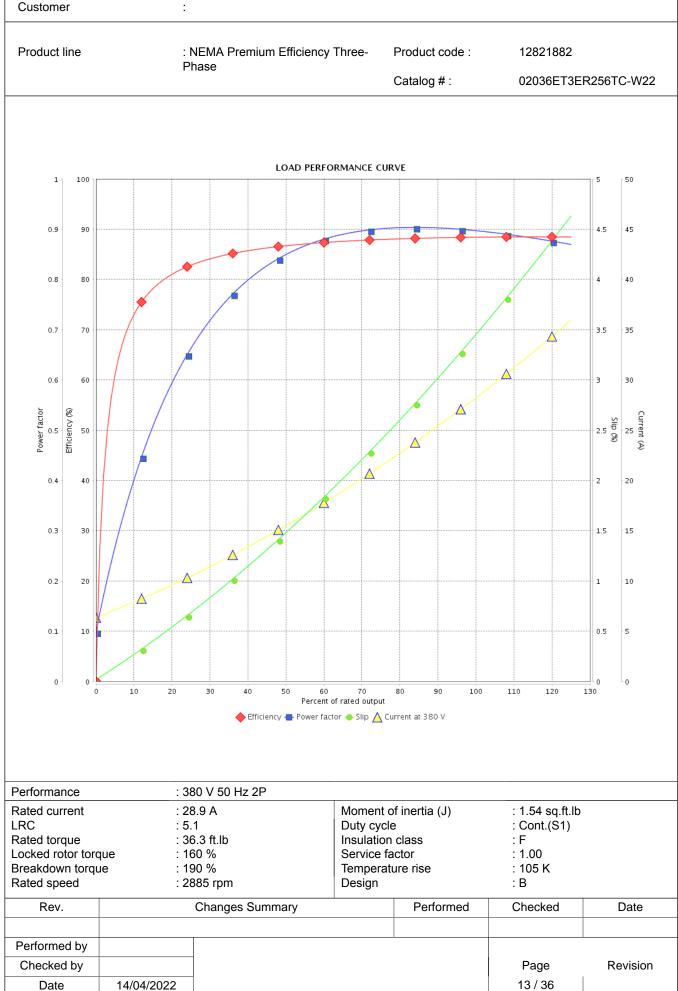
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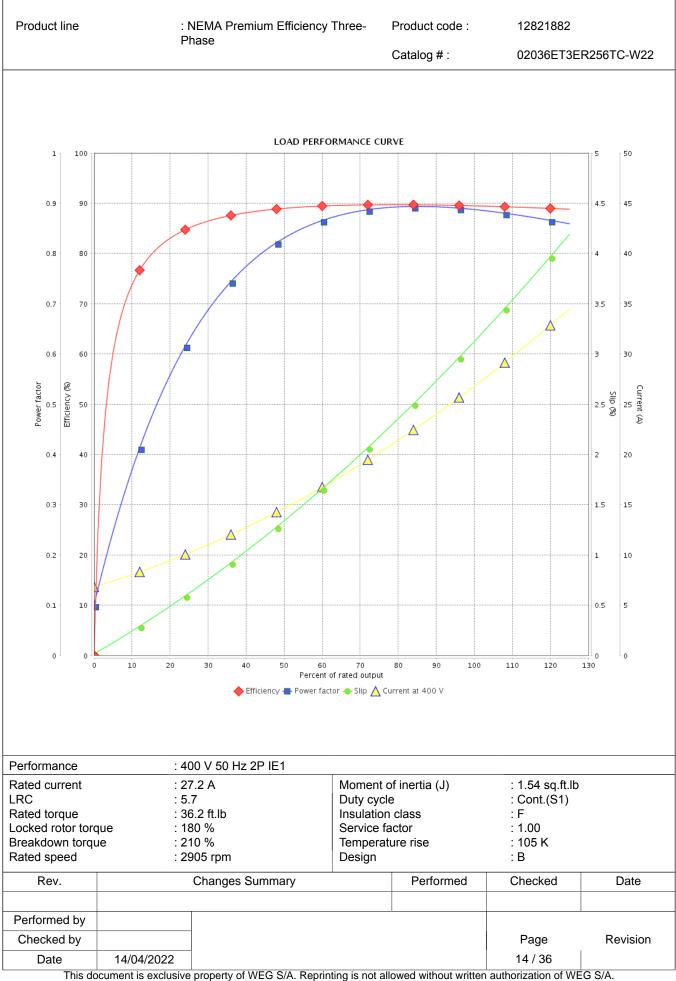
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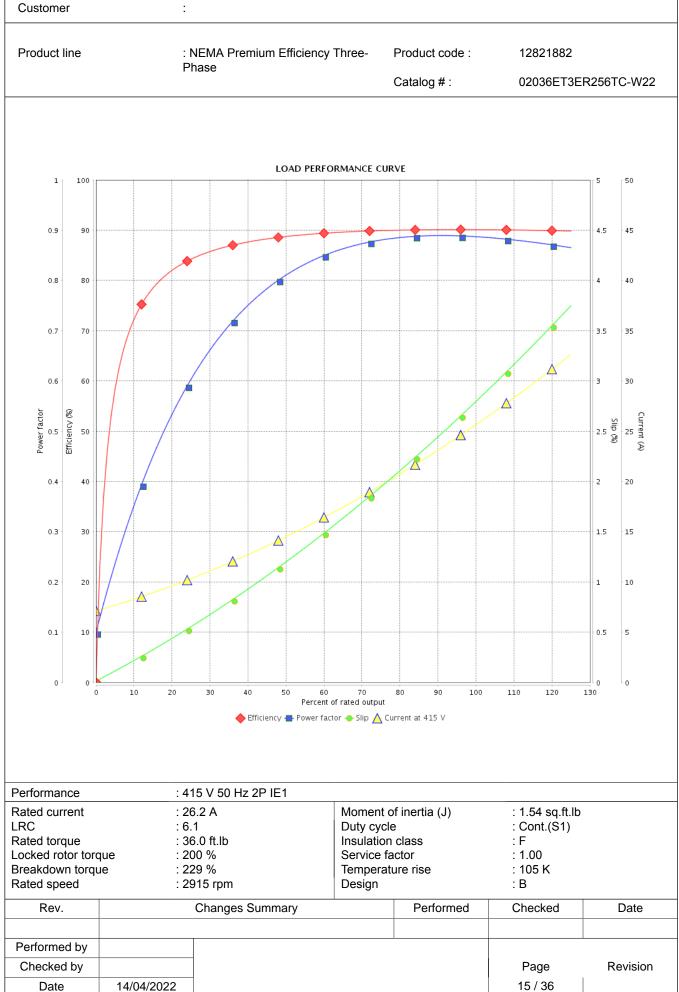


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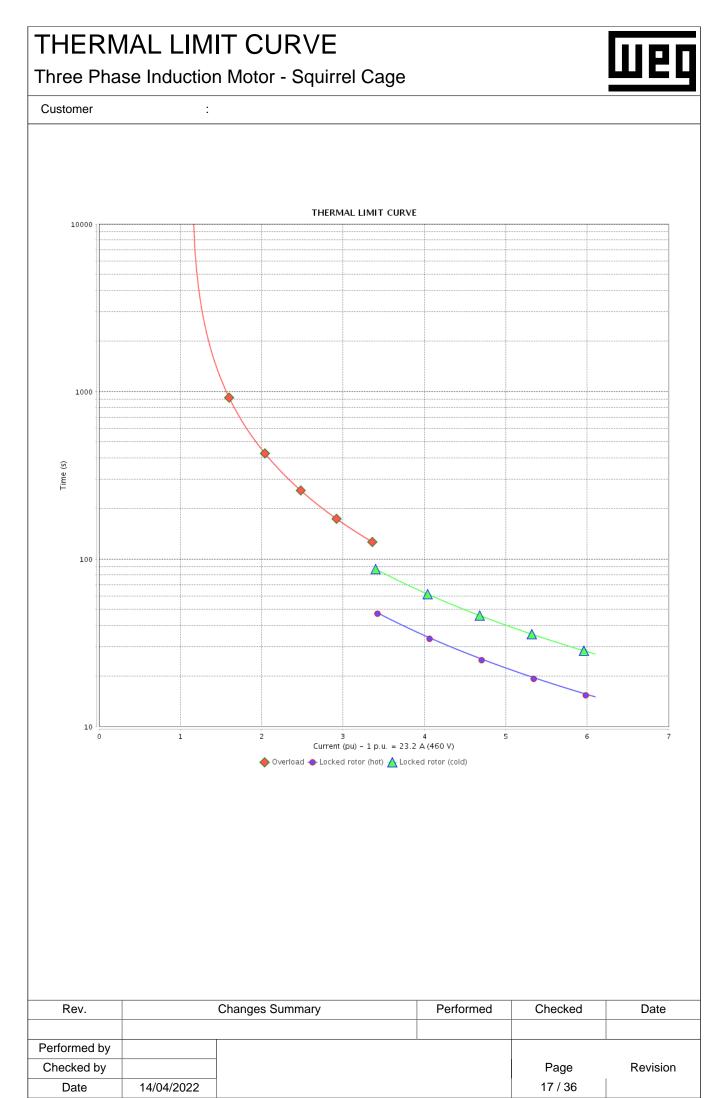
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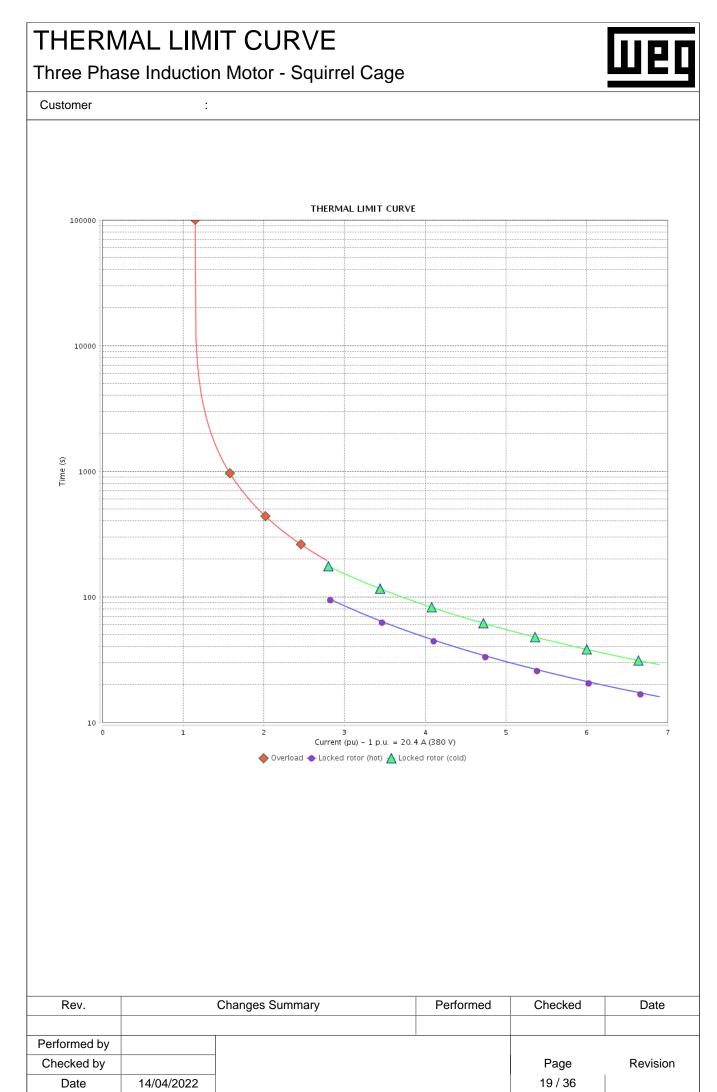
	THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	· · · ·						
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12821882 02036ET3ER256TC-W22				

Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 29 gue : 20 ie : 24	5.4/23.2 A 1 9.8 ft.lb 00 % 40 % 525 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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	LIMIT CURVE		Шед
Customer	luction Motor - Squirrel C	Cage	
Customer	:		
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code :	12821882
	11000	Catalog # :	02036ET3ER256TC-W22
Performance	: 380 V 50 Hz 2P IE3		
Rated current LRC	: 20.4 A M : 6.9 D	loment of inertia (J) Duty cycle	: 1.54 sq.ft.lb : Cont.(S1)
Rated torque	: 26.9 ft.lb Ir	nsulation class Service factor	: F : 1.15
LI UCKEU TOTOFTOFOUE			. 1.15

Locked rotor torque: 220 %Breakdown torque: 260 %		: 6.9 : 26.9 ft.lb : 220 % : 260 % : 2935 rpm	Service fa	Insulation class Service factor Temperature rise		
Heating constant	t				·	
Cooling constant	t					
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Customer	:		
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	12821882 02036ET3ER256TC-W22
Performance	: 400 V 50 Hz 2P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.6 A : 7.7 : 26.8 ft.lb : 240 % : 280 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B
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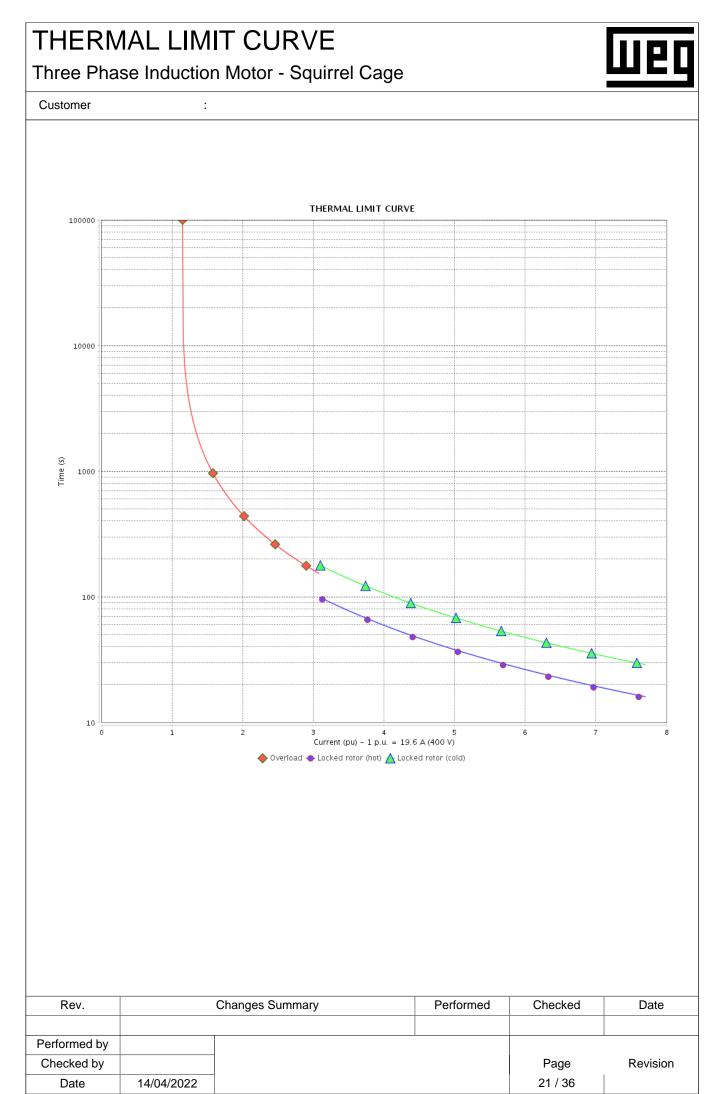
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Revision



			
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Customer	:		
Product line	: NEMA Premium Efficiency T Phase	hree- Product code : Catalog # :	12821882 02036ET3ER256TC-W22
Performance	: 415 V 50 Hz 2P IE3		
Rated current LRC	: 19.1 A : 8.1	Moment of inertia (J) Duty cycle	: 1.54 sq.ft.lb : Cont.(S1)
Rated torque	: 26.8 ft.lb	Insulation class	:F
Locked rotor torque Breakdown torque	: 270 % : 310 %	Service factor Temperature rise	: 1.15 : 80 K
Rated speed	: 2950 rpm	Design	: B

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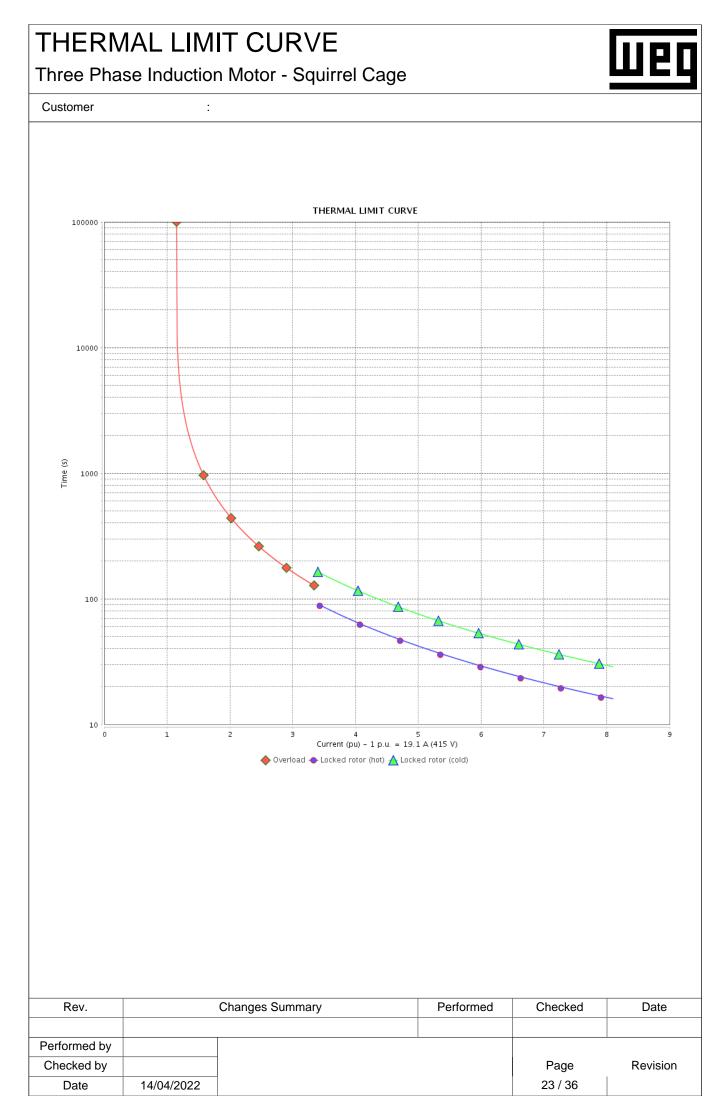
Changes Summary

Heating constant Cooling constant Rev.

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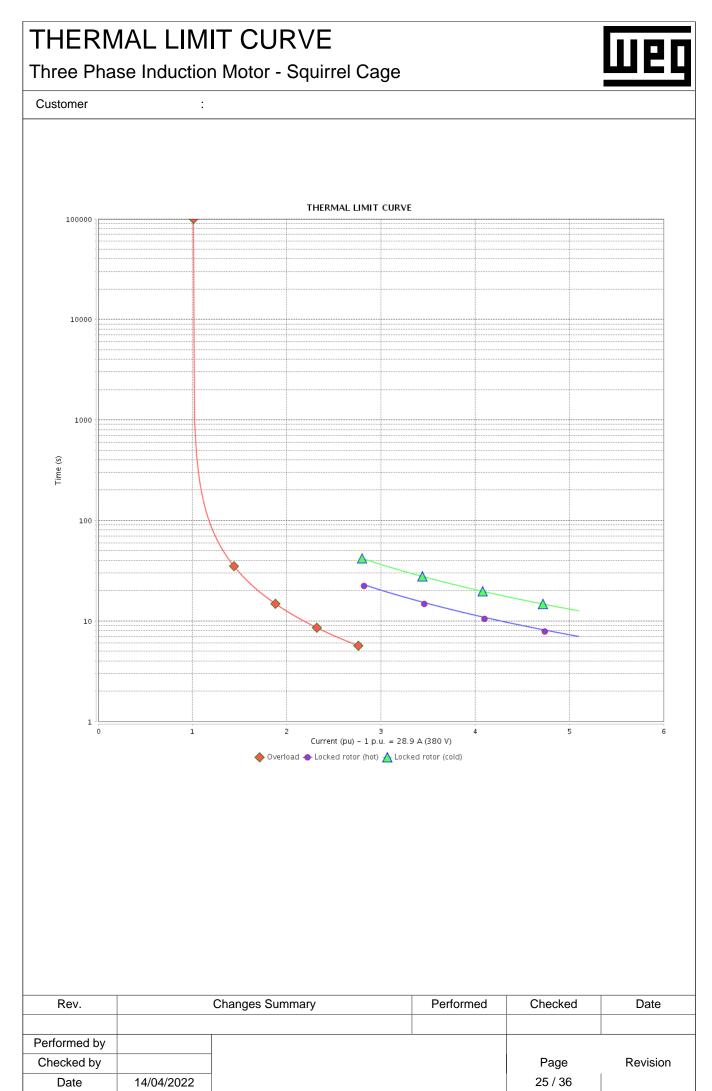
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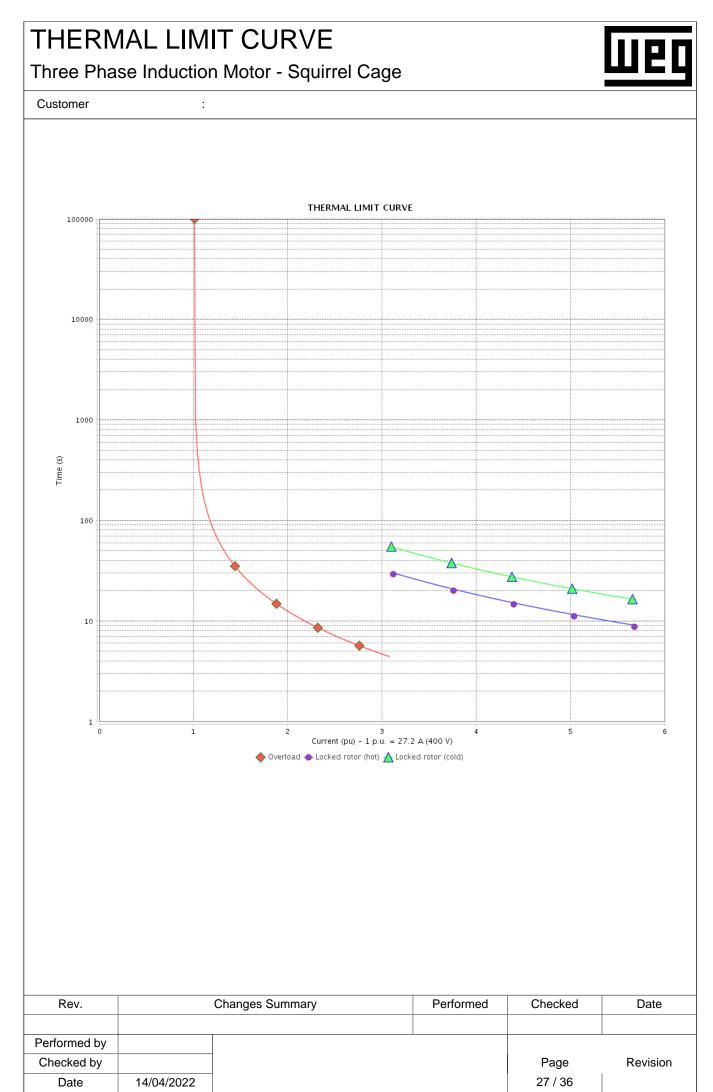
	LIMIT CURVE		шес
Three Phase In Customer	nduction Motor - Squirrel Cag	e	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12821882 02036ET3ER256TC-W22
Performance Rated current	: 380 V 50 Hz 2P : 28.9 A Mome	ent of inertia (J)	: 1.54 sq.ft.lb

Rated current LRC	: 28 : 5.	3.9 A 1	Moment of inertia (J) Duty cycle		: 1.54 sq.ft.lb : Cont.(S1)	
Rated torque	: 36	6.3 ft.lb	Insulation	class	: F	
Locked rotor toro	jue : 16	60 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 19	90 %	Temperatu	ire rise	: 105 K	
Rated speed	: 28	385 rpm	Design		: B	
Heating constant	[·	
Cooling constant						
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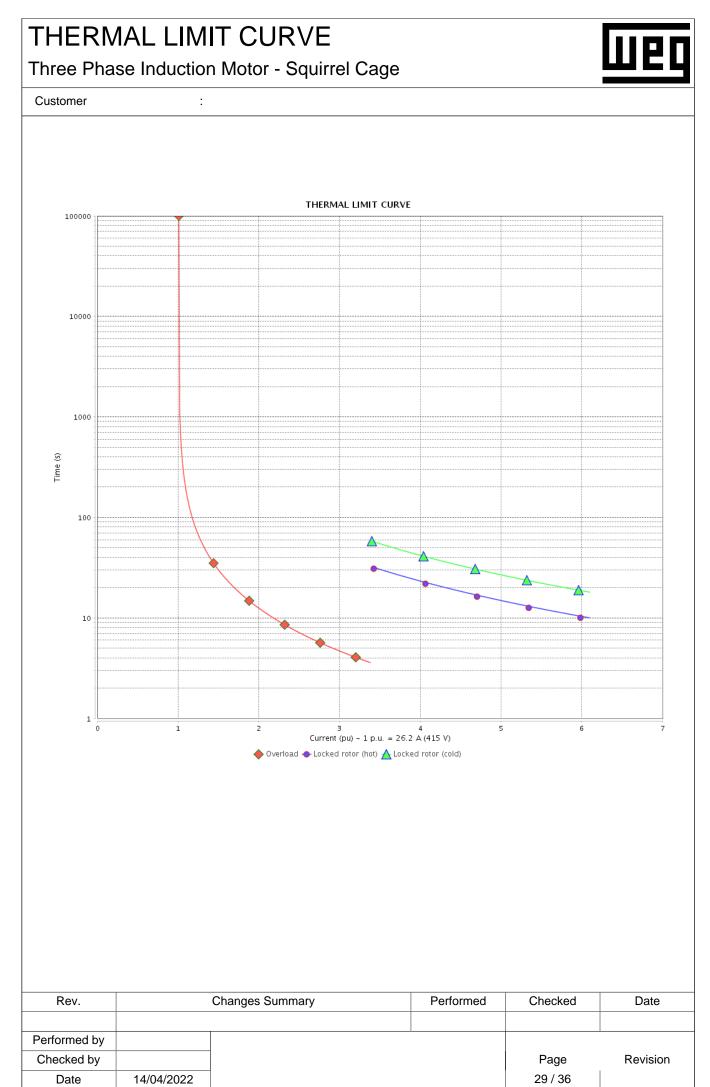
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Three Phase In	duction Motor - Squirrel Ca	ige	
Customer	:		
Product line	: NEMA Premium Efficiency Thre	e- Product code :	12821882
	Phase	Catalog # :	02036ET3ER256TC-W22
Performance	: 400 V 50 Hz 2P IE1		
Rated current LRC Pated torque	: 5.7 Dut	ment of inertia (J) ty cycle	: 1.54 sq.ft.lb : Cont.(S1)

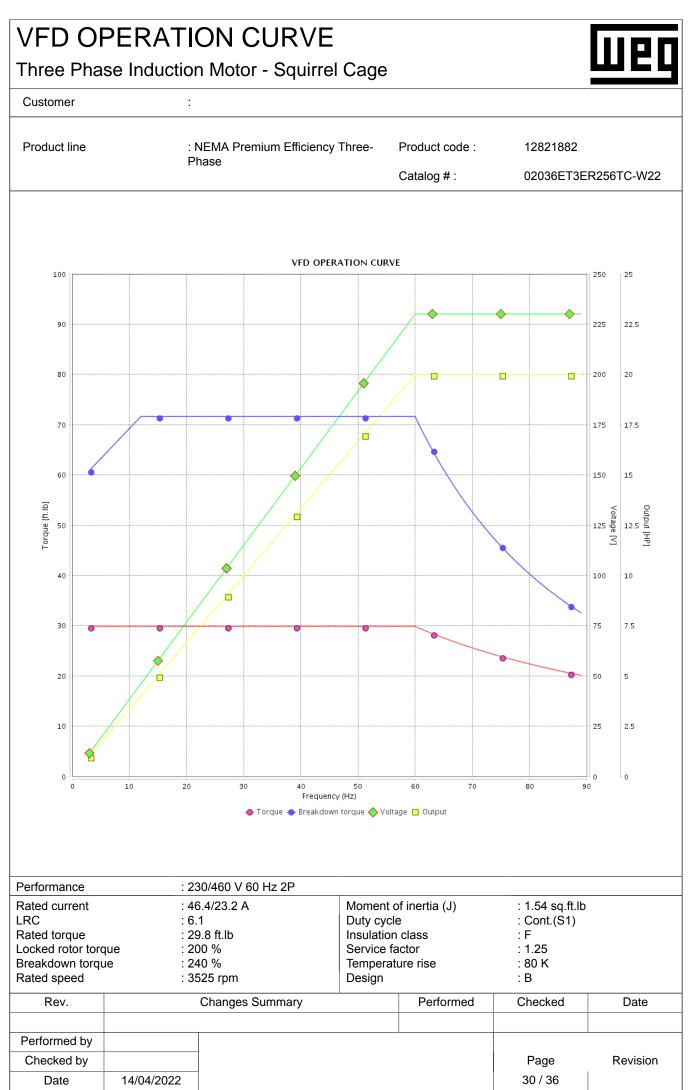
Rated current : 27 LRC : 5.		7.2 A 7	Moment of inertia (J) Duty cycle		: 1.54 sq.ft.lb : Cont.(S1)	
		6.2 ft.lb	Insulation class		: F `´	
Locked rotor torque : 1		30 %	Service factor		: 1.00	
Breakdown torque		10 %	Temperature rise		: 105 K	
Rated speed : 29		905 rpm	Design		: B	
Heating constant						
Cooling constant						
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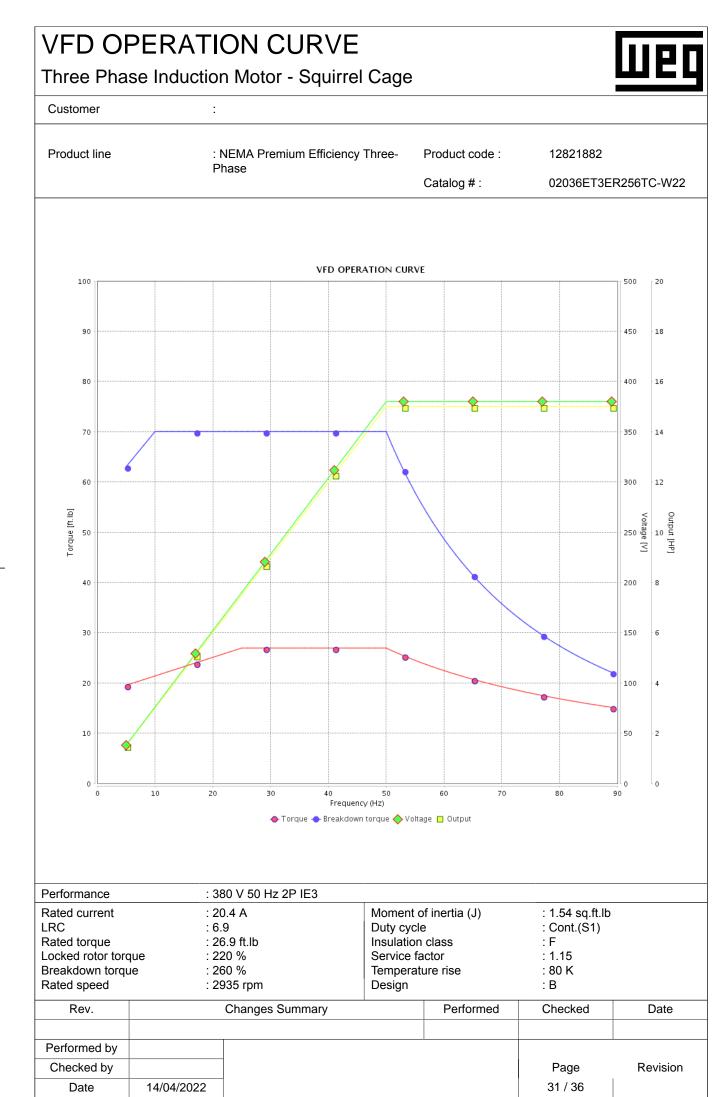


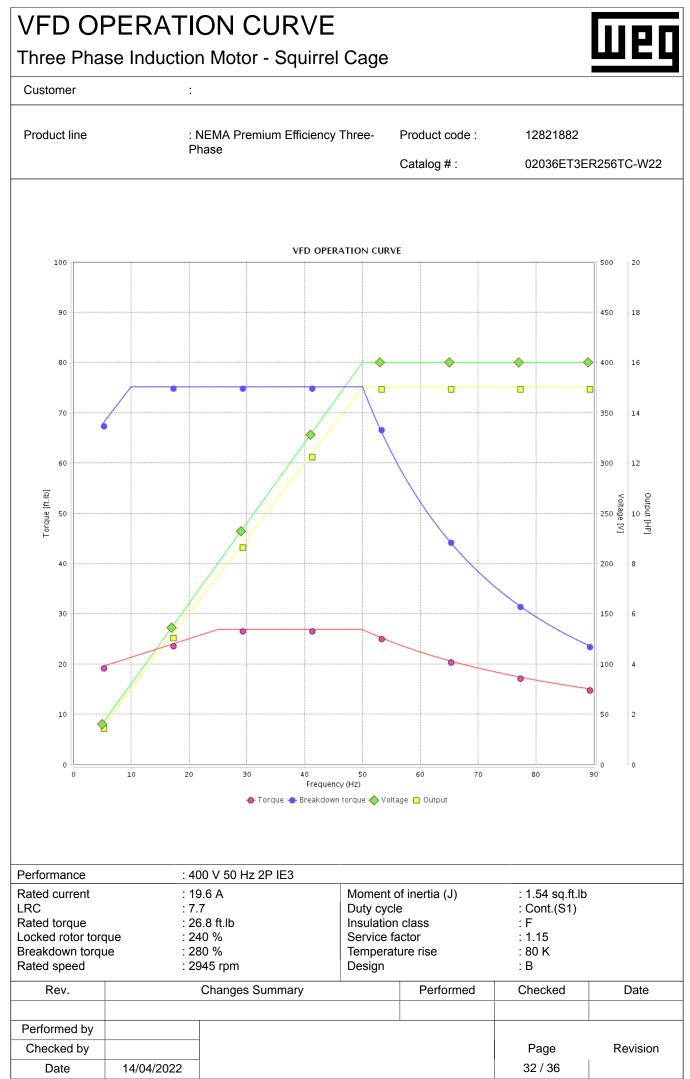
	LIMIT CURVE	9	Шеі
Customer	:	-	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	12821882 02036ET3ER256TC-W22
erformance	: 415 V 50 Hz 2P IE1		
ated current	: 26.2 A Mome	nt of inertia (J)	: 1.54 sq.ft.lb : Cont (S1)

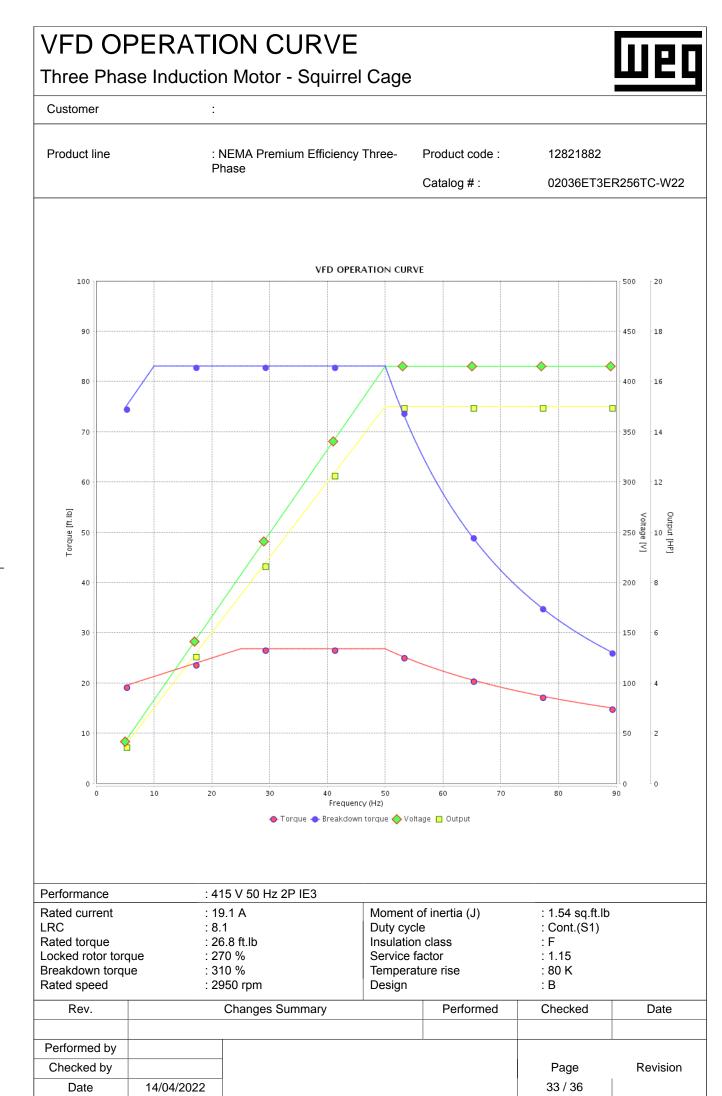
LRC: 6Rated torque: 3Locked rotor torque: 2Breakdown torque: 2		6.2 A .1 6.0 ft.lb 00 % 29 % 915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	[
Cooling constant						
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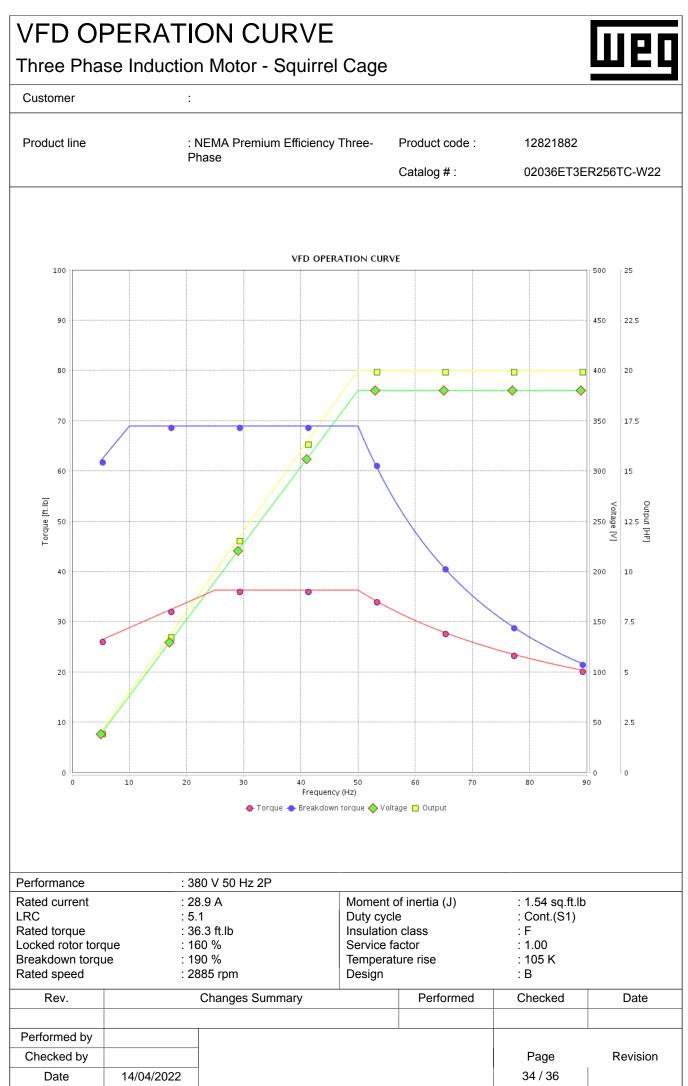


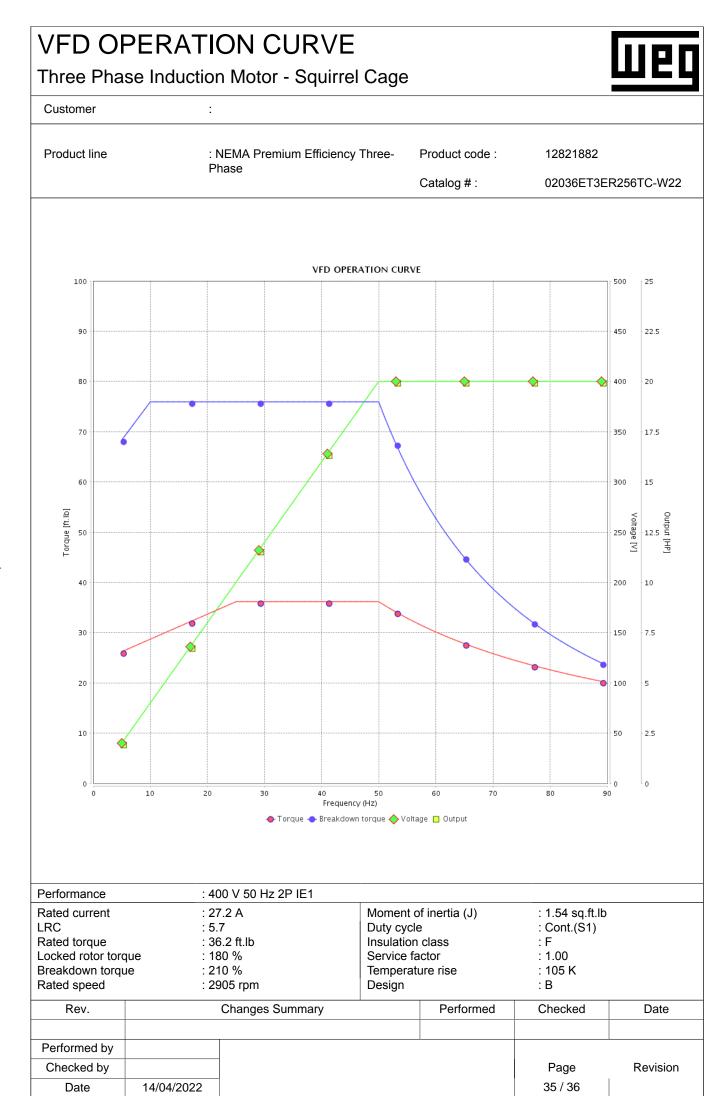


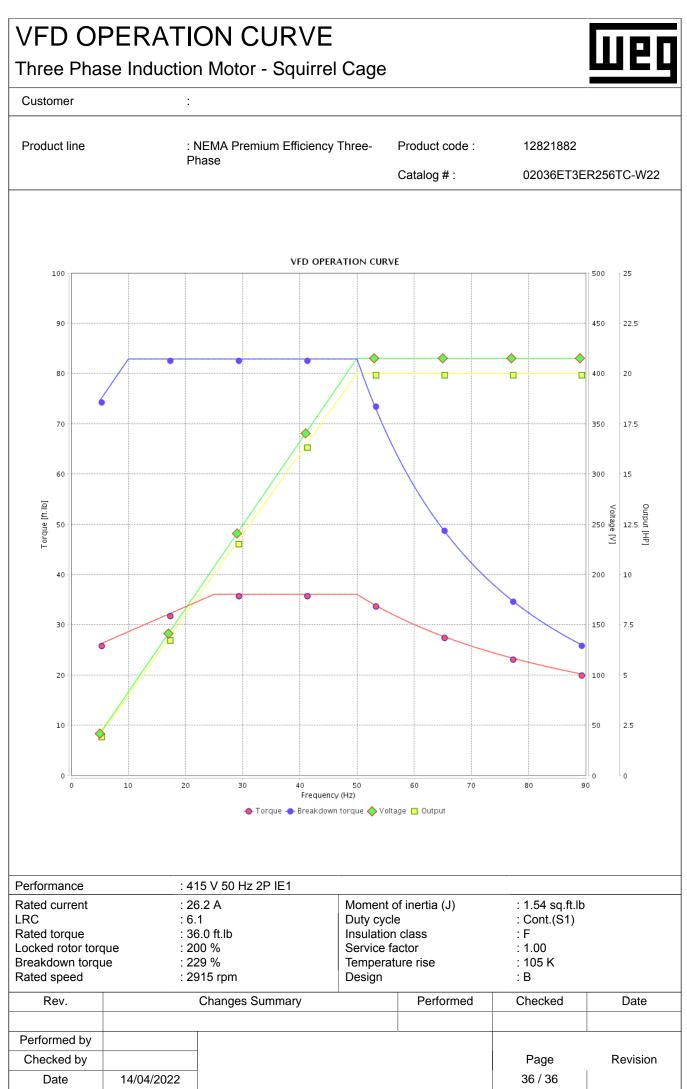


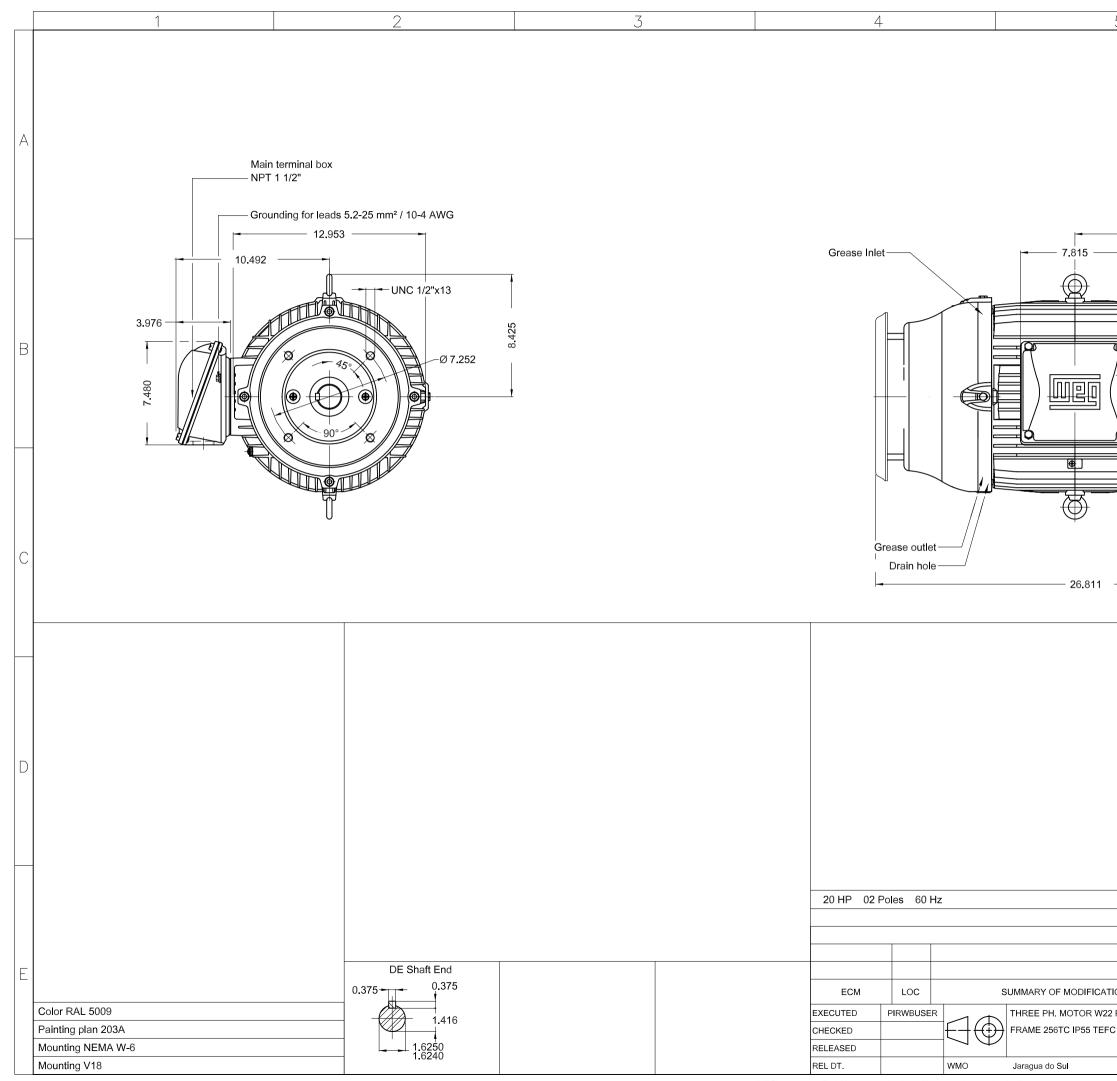












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5	G Grease Inlet	Dimensions in inches
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Produc	t Engineering SHEET 1 / 1	XME

