DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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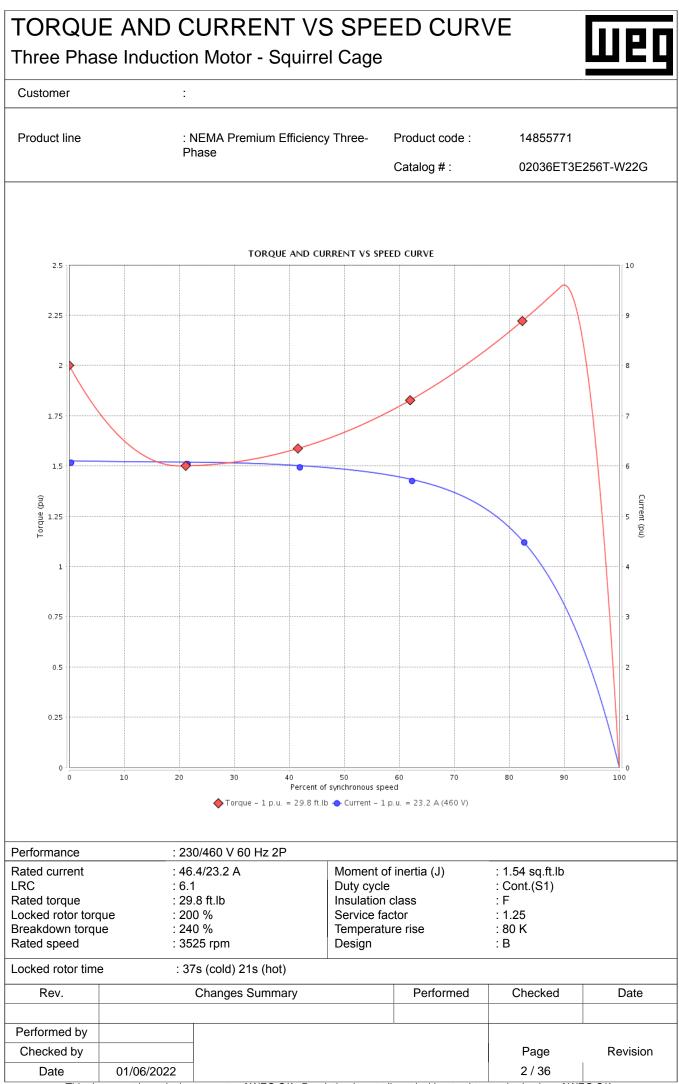
Customer

Product line : NEMA Premium Effic				cy Thre	Three- Product code :			14855771		
		Phase				Catalog # :	02	2036ET3E256	T-W22G	
Frame		: 254/6T				g method		C411 - TEFC		
Insulation class		: F			Mountii			-1		
Duty cycle		: Cont.(S1)			Rotatio			Both (CW and	,	
Ambient tempera	ature	: -20°C to +				g method		Direct On Line	•	
Altitude		: 1000 m.a.s	s.l.			. weight ³		328 lb		
Protection degre	е	: IP55			Momen	nt of inertia (J)	:	1.54 sq.ft.lb		
Design		: B								
Output [HP]		20	15	1		15	20	20	20	
Poles		2	2	2		2	2	2	2	
Frequency [Hz]		60	50	5		50	50	50	50	
Rated voltage [V]		230/460	380	40		415	380	400	415	
Rated current [A]		46.4/23.2	20.4		9.6	19.1	28.9	27.2	26.2	
. R. Amperes [A]		283/142	141		51	155	147	155	160	
_RC [A]		6.1x(Code	•	7.7x(C	ode H)	8.1x(Code J)	5.1x(Code E)5.7x(Code F)	· · ·	
lo load ourrest [^	1	G)	G)	6.0	60	6.00	6 20	6.60	G)	
No load current [A		13.0/6.50	6.20	6.0		6.90	6.20 2885	6.60	6.90	
Rated speed [RPN	/1]	3525	2935		45	2950		2905	2915	
Slip [%]	1	2.08	2.17		83	1.67	3.83 36.3	3.17 36.2	2.83 36.0	
Rated torque [ft.lb		29.8	26.9		5.8 10	26.8				
Locked rotor torqu		200	220	24	-	270	160	180	200	
Breakdown torque	[%]	240	260	28		310	190	210 1.00	229 1.00	
Service factor Temperature rise		1.25 80 K	1.15 80 K	1.'	15) K	1.15 80 K	1.00 105 K	1.00 105 K	1.00 105 K	
_ocked rotor time		37s (cold) 21s (hot)	28s (cold) 16s (hot)		(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 (67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A	
	25%	91.4	90.2).2	89.5	93.3	92.1	92.2	
Efficiency (%)	50%	91.0	90.6	90		89.8	91.0	91.0	91.0	
	75%	91.7	90.9	91		91.1	90.2	91.0	91.0	
	100%	91.0	91.2	91		91.2	87.5	89.5	89.5	
	25%	0.57	0.54	0.9		0.48	0.63	0.60	0.57	
Power Factor	50%	0.82	0.78	0.1		0.73	0.86	0.84	0.82	
	75%	0.87	0.87	3.0		0.84	0.89	0.88	0.87	
	100%	0.89	0.90	3.0		0.88	0.90	0.89	0.89	
– • •		Drive end			oundat	tion loads				
Bearing type		: 6309 C3			/lax. tra			33 lb		
Sealing		: V'Ring	V'Rin		Aax. co	mpression	: 5	61 lb		
Lubrication interv		: 19000 h		h						
Lubricant amour	t	: 13 g	9 g							
Lubricant type		. IVIODI	I Polyrex EM							
Notes										
USABLE @208V	51.3A SF 1.	15 SFA 59.0A								
-										
This revision repl	aces and car	ncel the previo	us one which	т	These a	ire average va	alues based (on tests with s	inusoidal	
must be eliminate								nces stipulate		
(1) Looking the m	otor from the	e shaft end.			/IG-1.	· · · · · · · · · · · · · · · · · · ·				
(2) Measured at 1			dB(A).							
(3) Approximate v	veight subjed	ct to changes a	after							
manufacturing pro										
(4) At 100% of ful		Charge	Cummori			Dorform -		ookod	Data	
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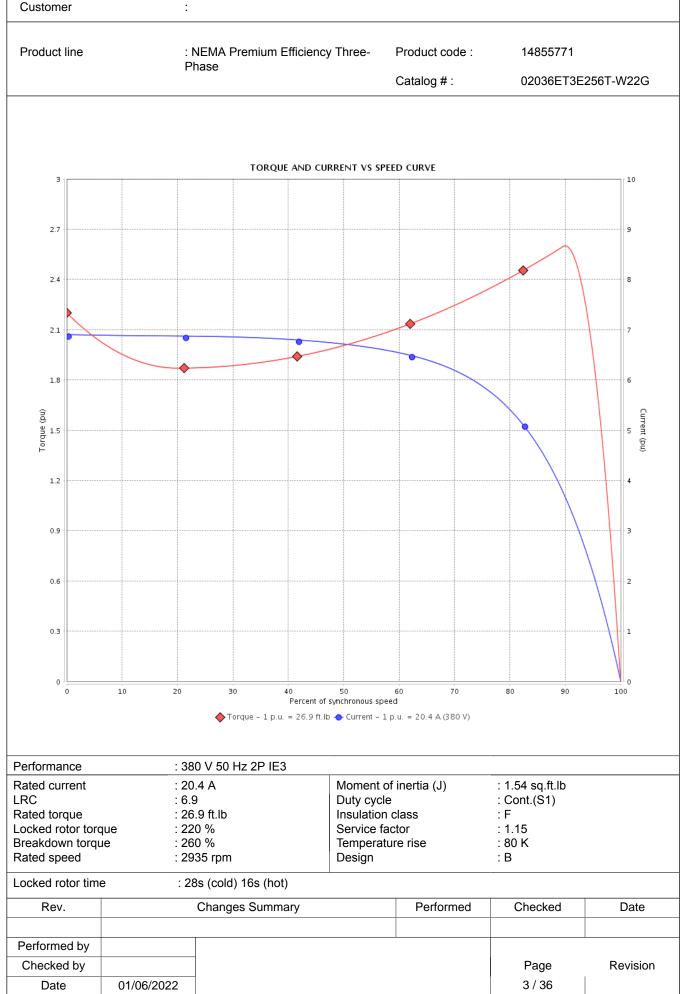
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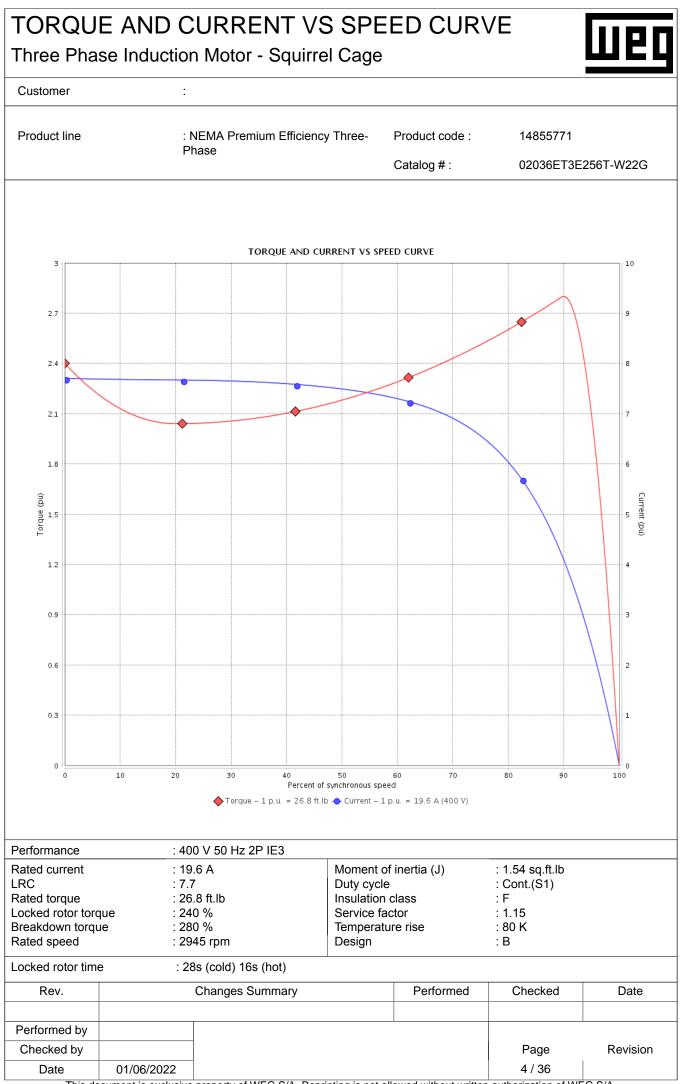
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



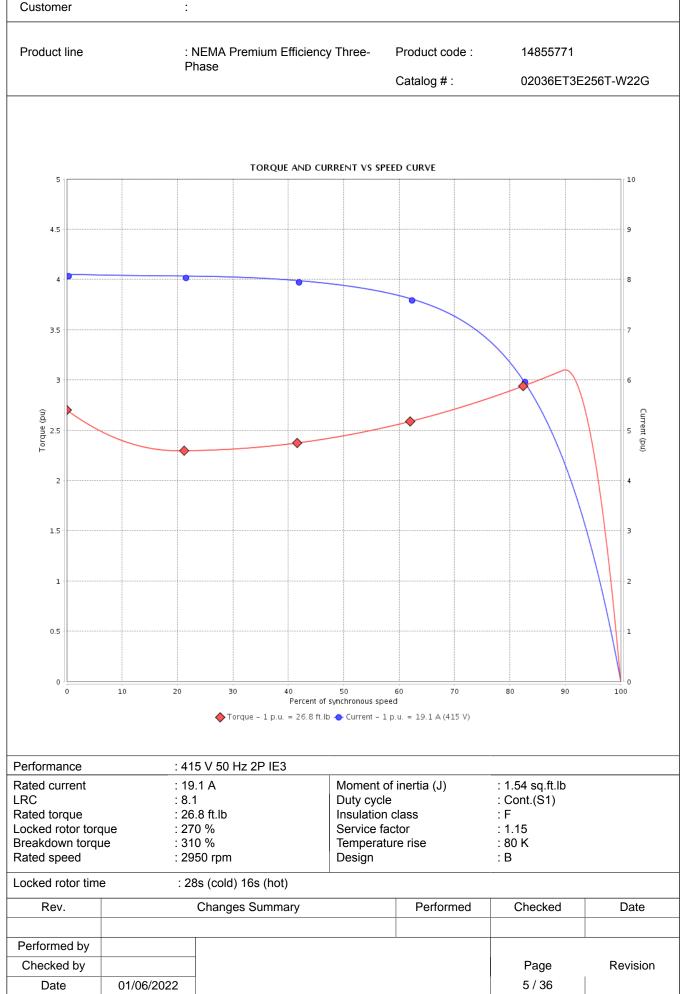
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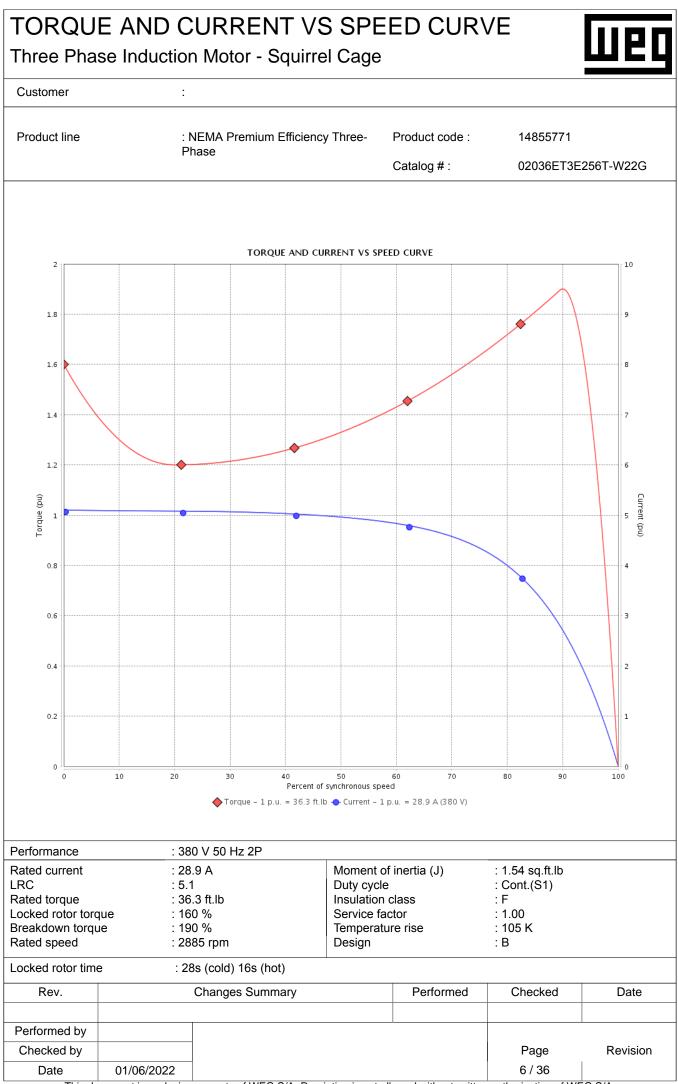
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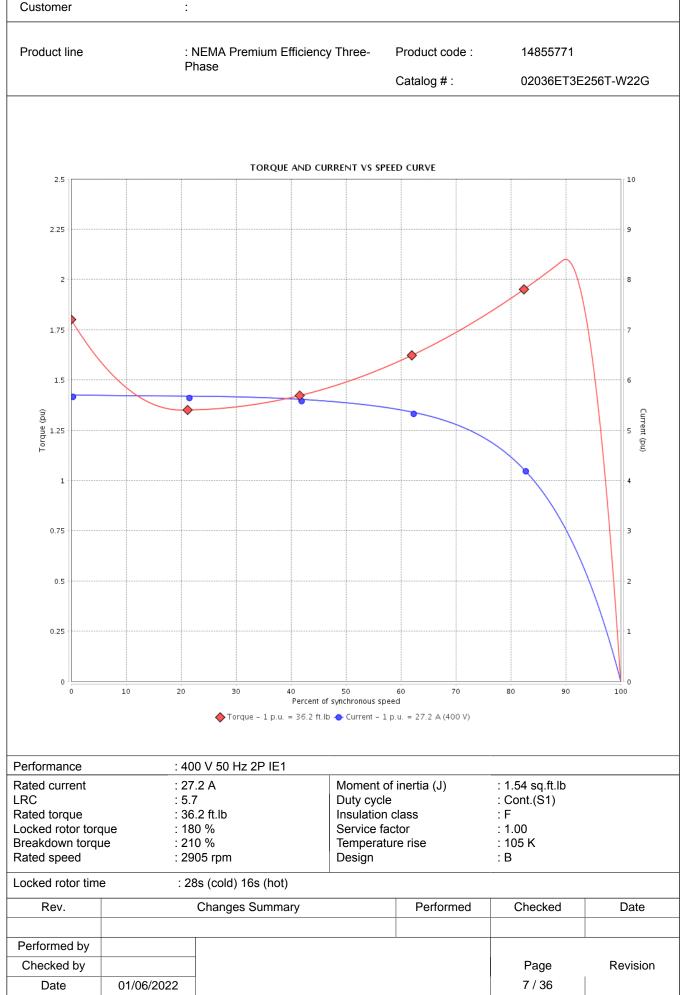
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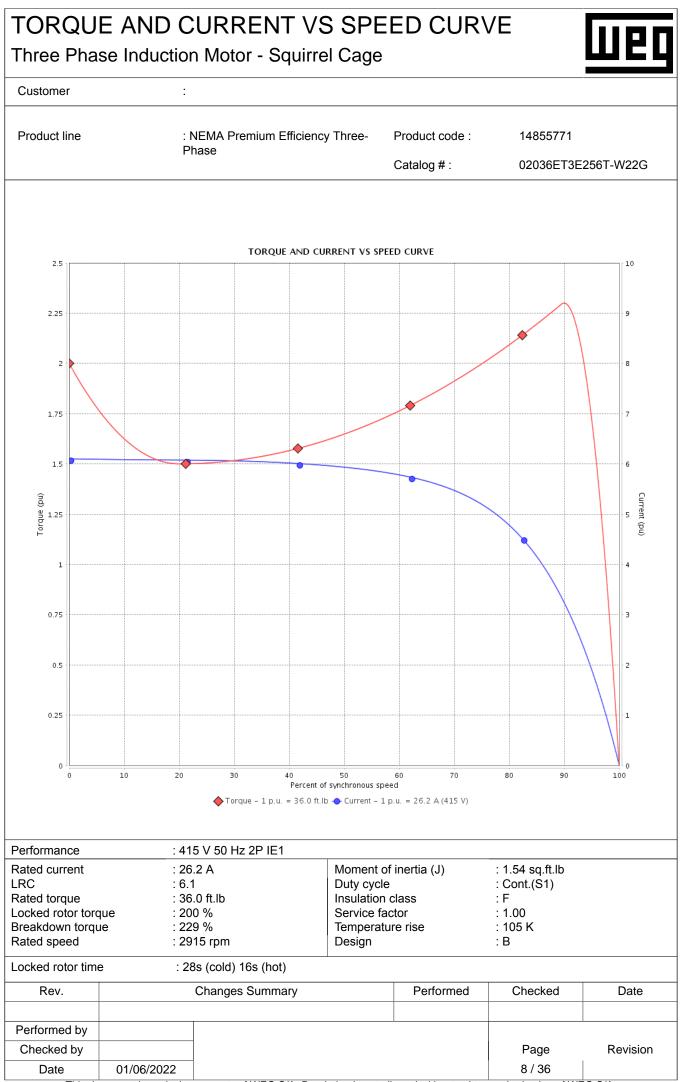
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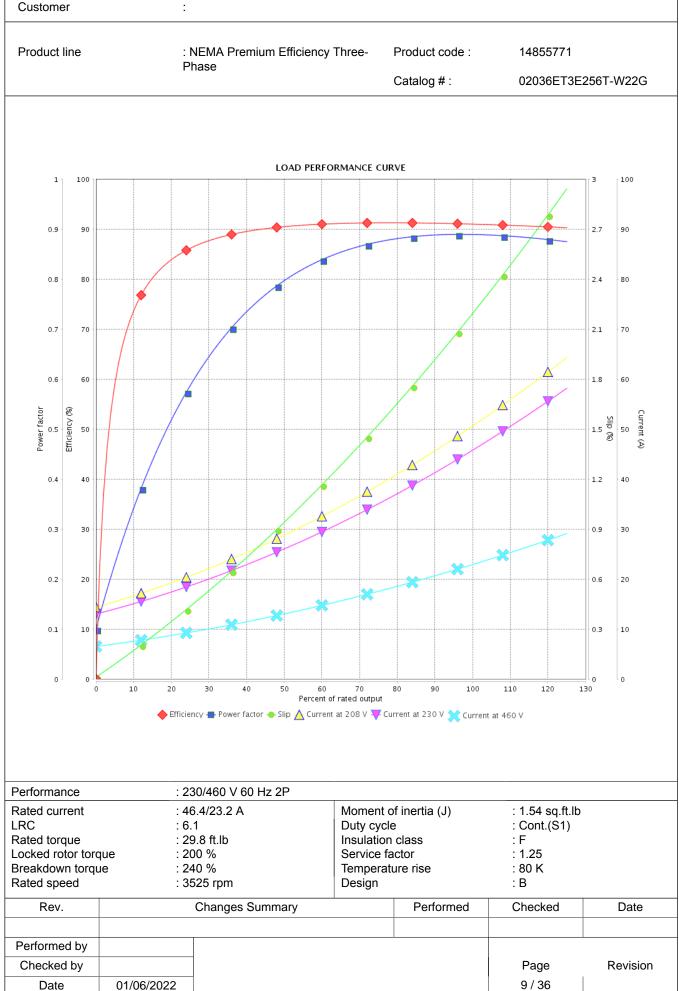


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Three Phase Induction Motor - Squirrel Cage

Customer



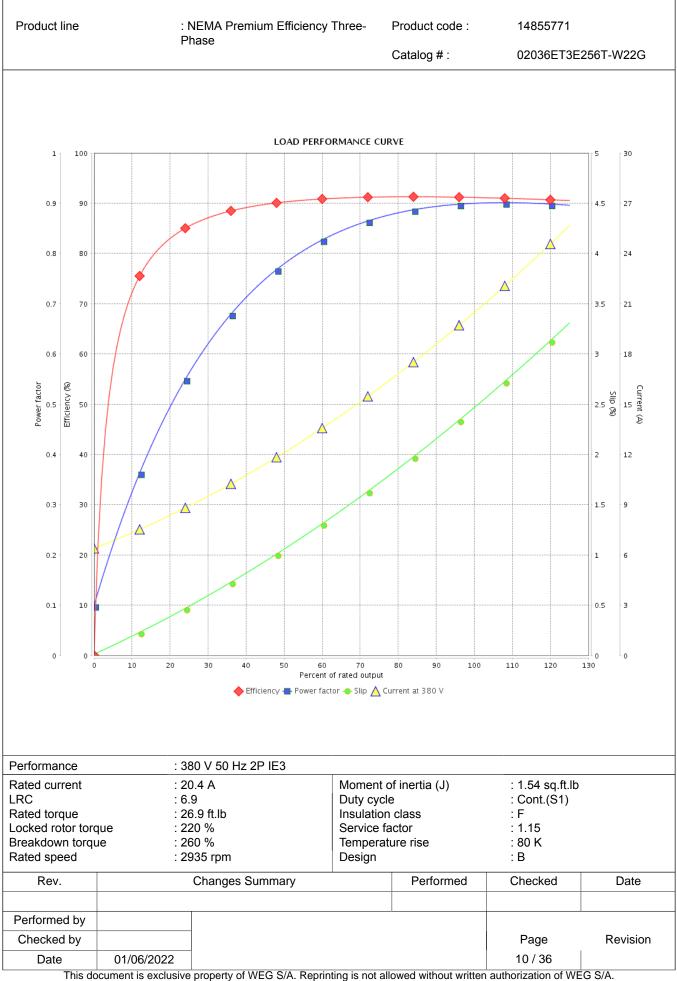
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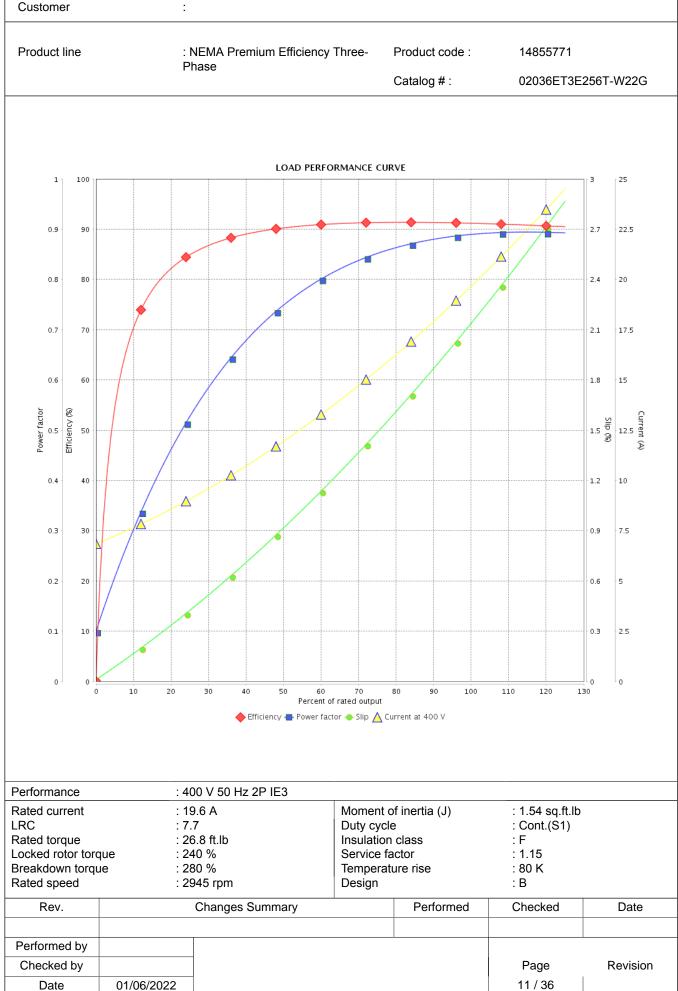


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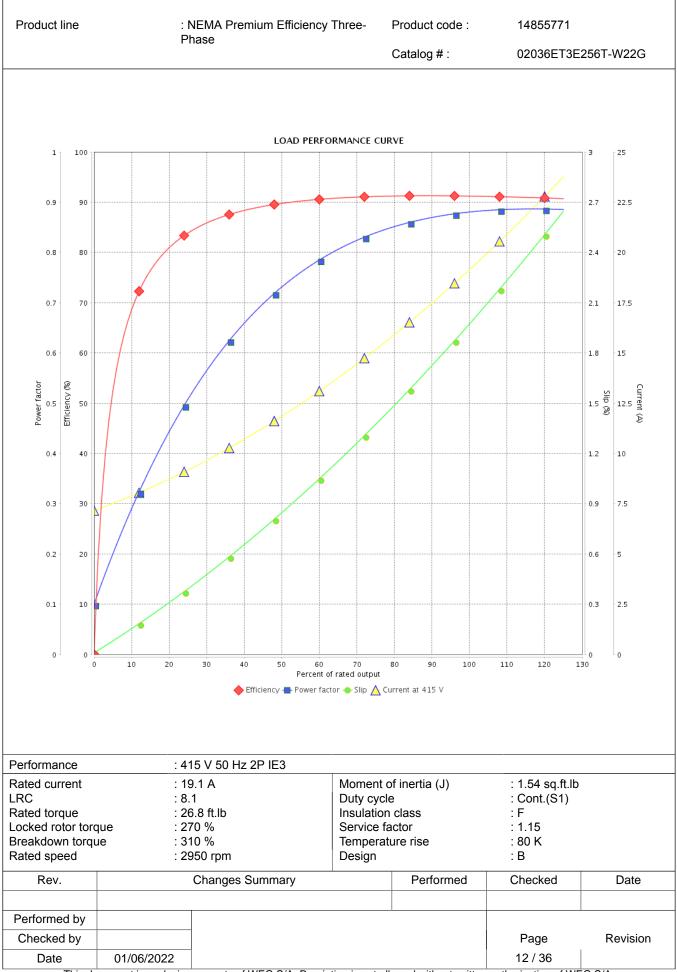
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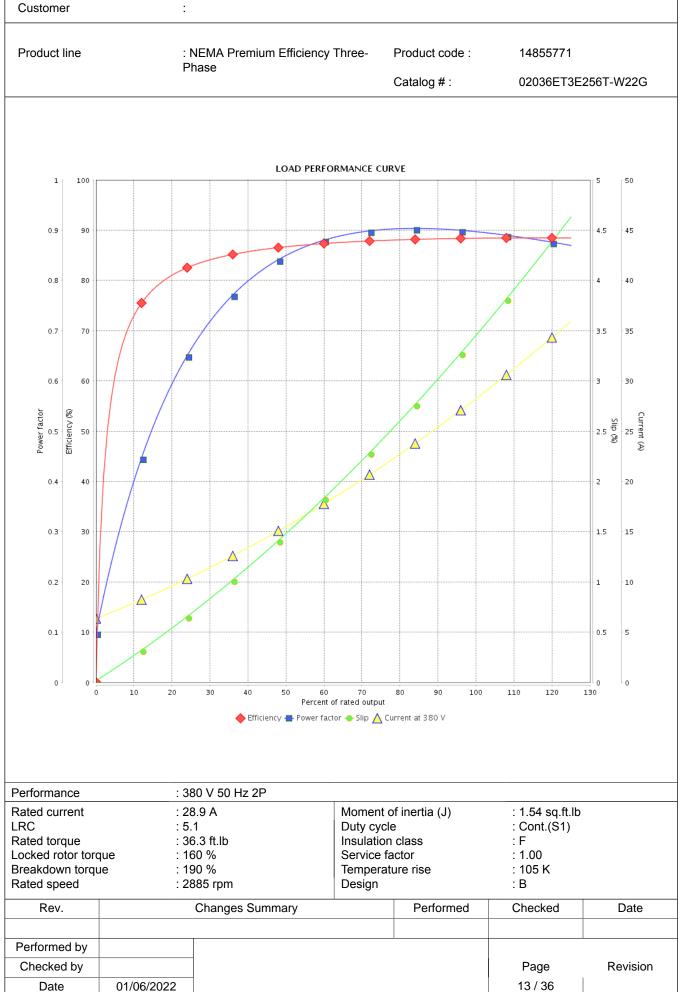


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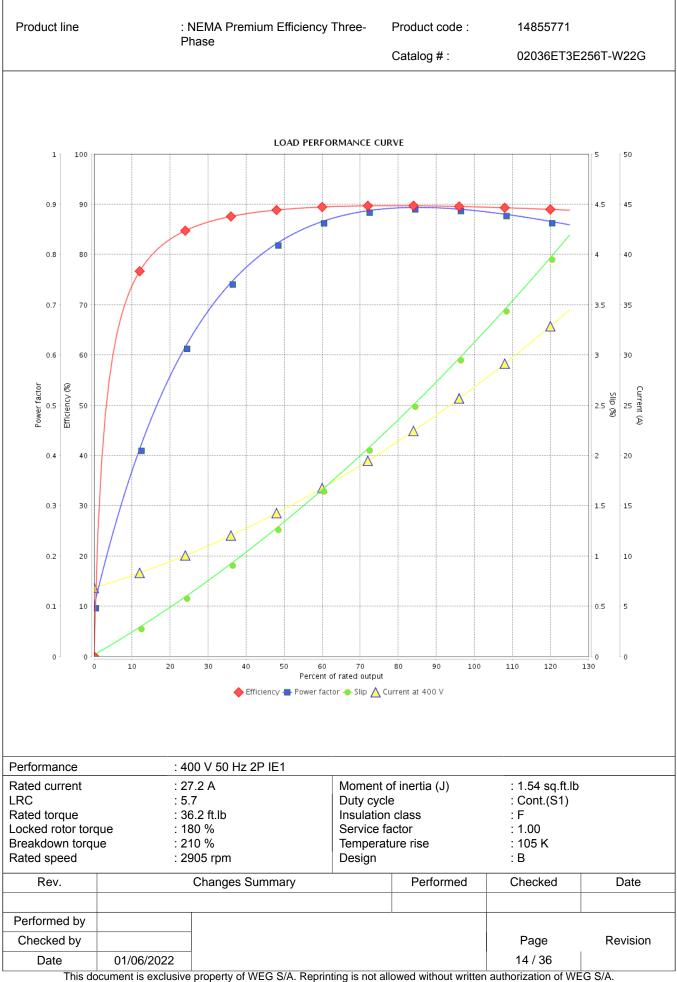
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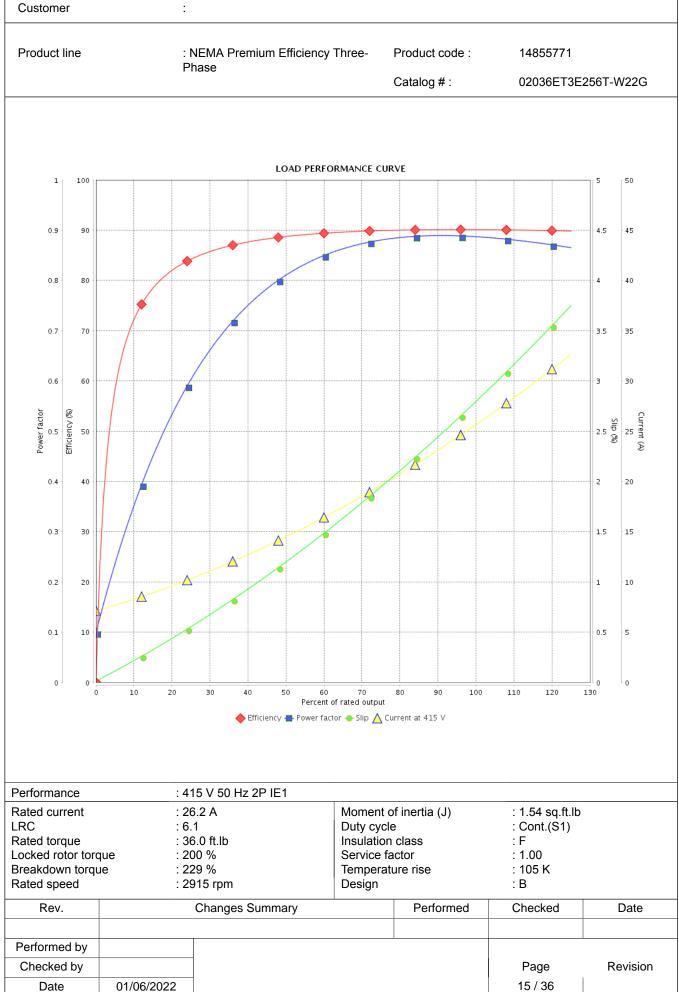


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Three Phase Induction Motor - Squirrel Cage

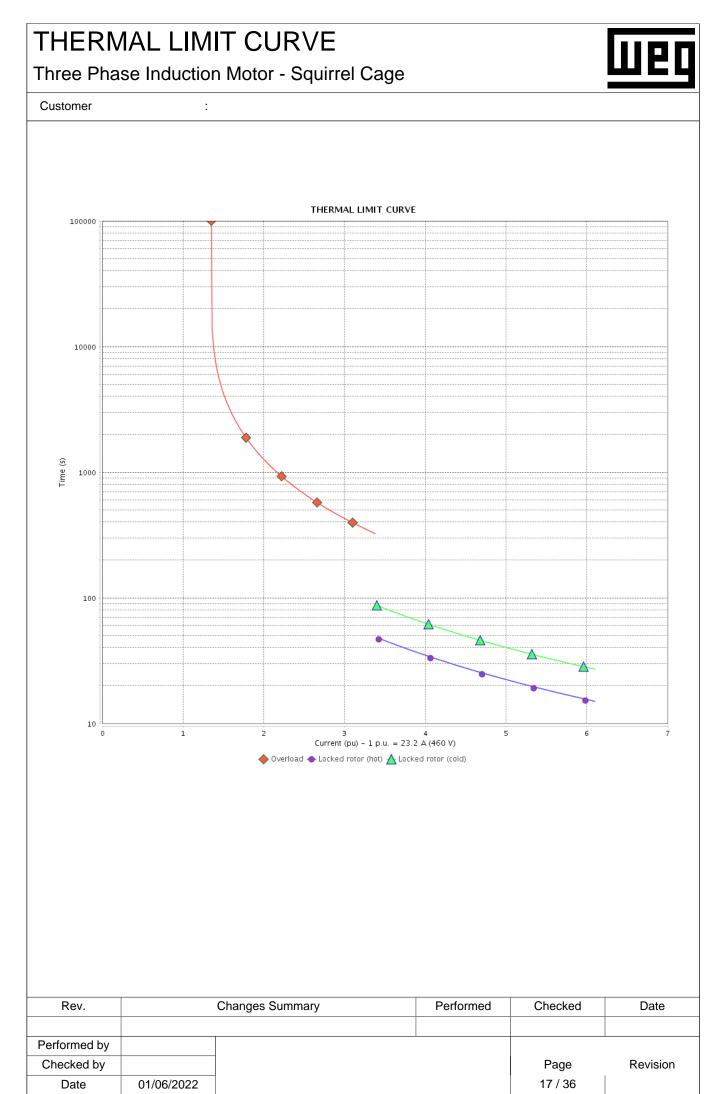
Customer



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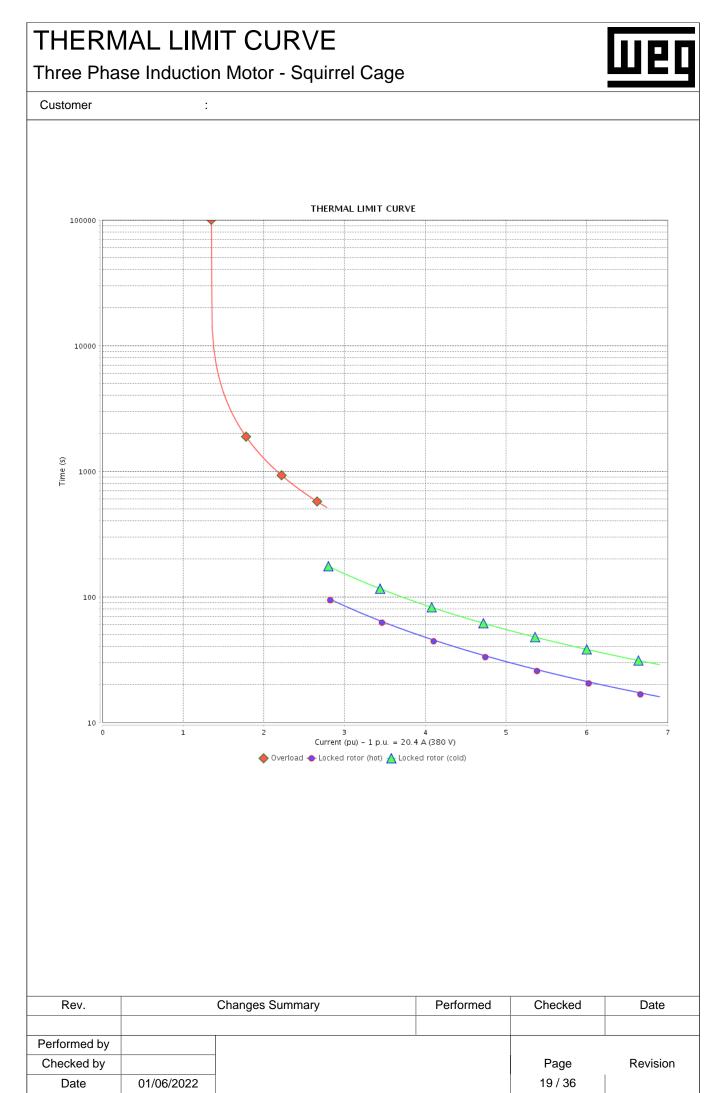
THERMAL LIMIT CURVE						
Three Phase Ind	uction Motor - Squirrel Cage	;				
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14855771			
		Catalog # :	02036ET3E256T-W22G			

Performance	:2	230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	jue : 2	46.4/23.2 A 6.1 29.8 ft.lb 200 % 240 % 3525 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						
Rev.		Changes Summary		Performed	Checked	Date
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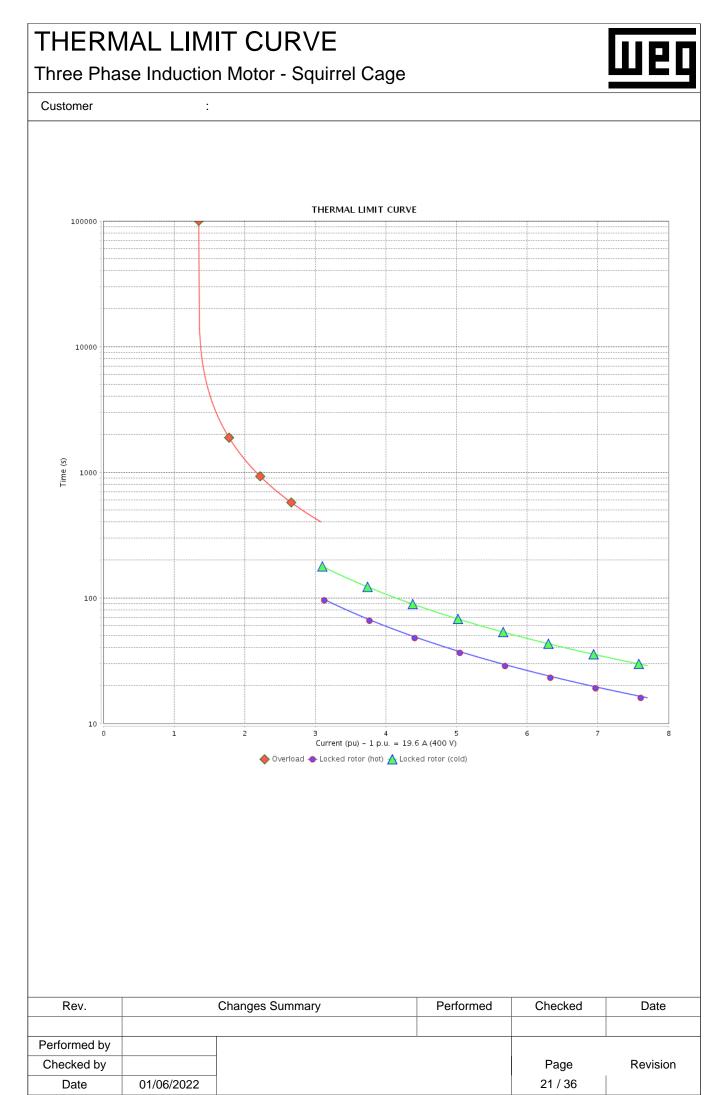
THERMAL LIMIT CURVE						
Three Phase Induc	tion Motor - Squirrel Cage)	шсч			
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14855771			
		Catalog # :	02036ET3E256T-W22G			

Performance	: 3	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 2 iue : 2	20.4 A 3.9 26.9 ft.lb 220 % 260 % 2935 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	
Heating constant				·		
Cooling constant						
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Three Phase Induc	tion Motor - Squirrel Cage	9	шсч				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14855771				
		Catalog # :	02036ET3E256T-W22G				

Performance	: 4	400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	iue : 2	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	
Heating constant				·		
Cooling constant						
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THERMAL LIMIT CURVE						
Three Phase Indu	uction Motor - Squirrel Cage	;	шсі			
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14855771			
		Catalog # :	02036ET3E256T-W22G			

J	Hea
Cooling constant	Coo

Performance

Rated current

Rated torque

Rated speed

Locked rotor torque

Breakdown torque

LRC

cooling constant	t				
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: 415 V 50 Hz 2P IE3

: 19.1 A

: 26.8 ft.lb

: 2950 rpm

: 270 %

: 310 %

: 8.1

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Moment of inertia (J)

Duty cycle Insulation class

Design

Service factor

Temperature rise

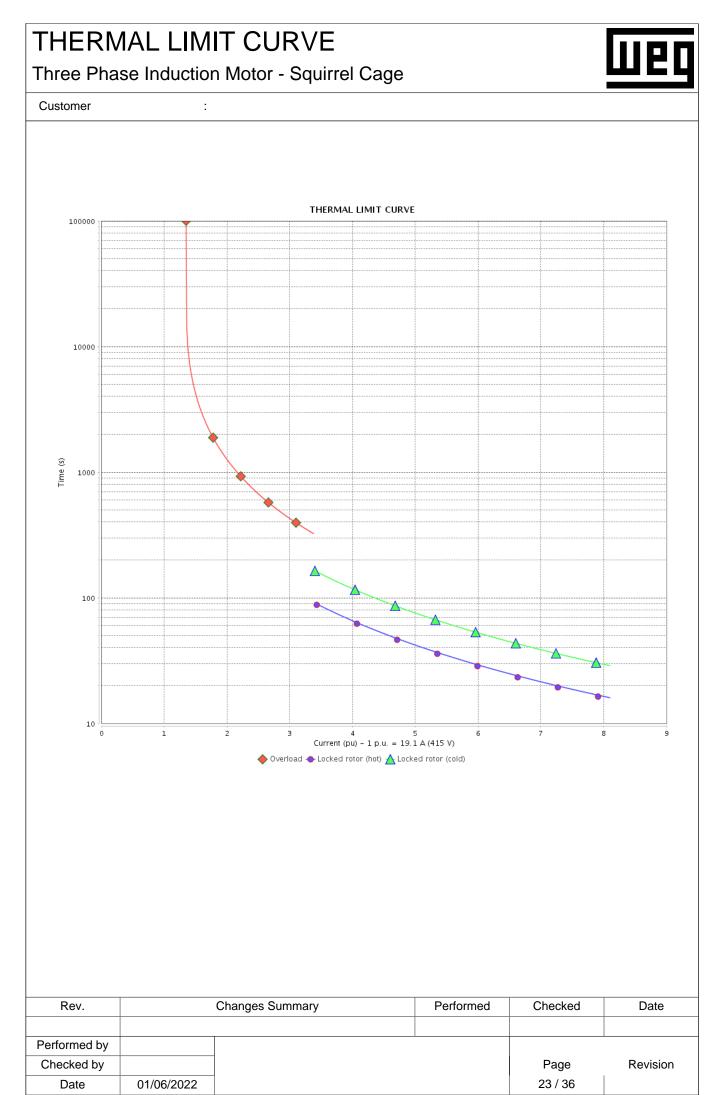
: 1.54 sq.ft.lb : Cont.(S1)

: F

: B

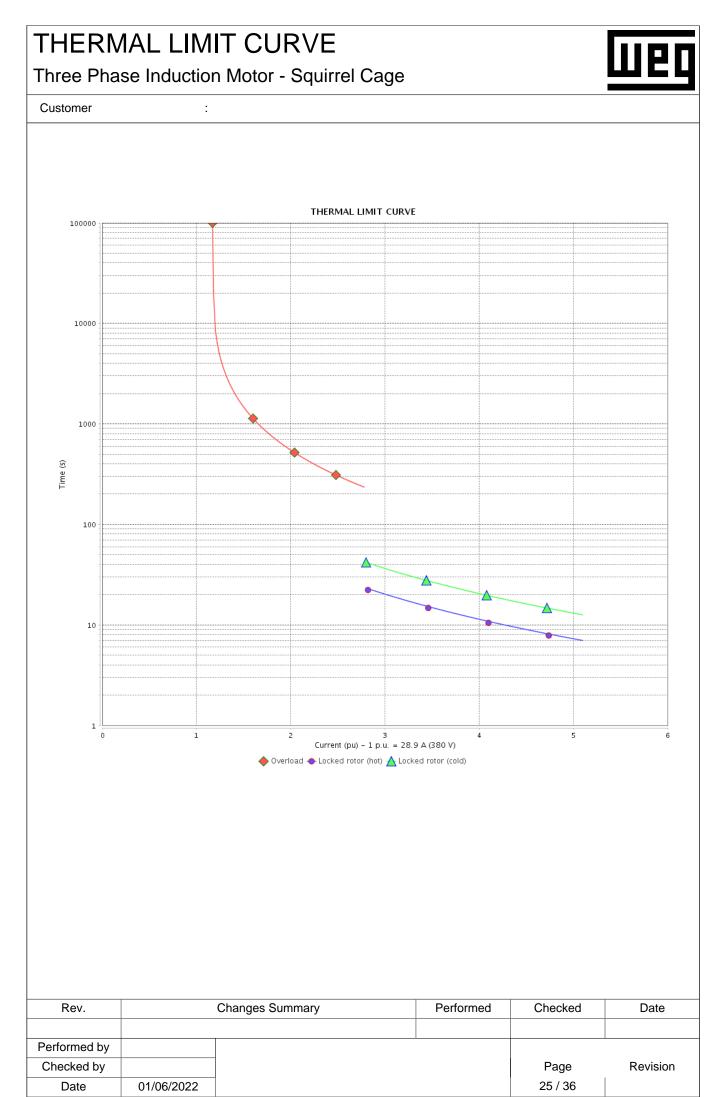
: 1.15

: 80 K



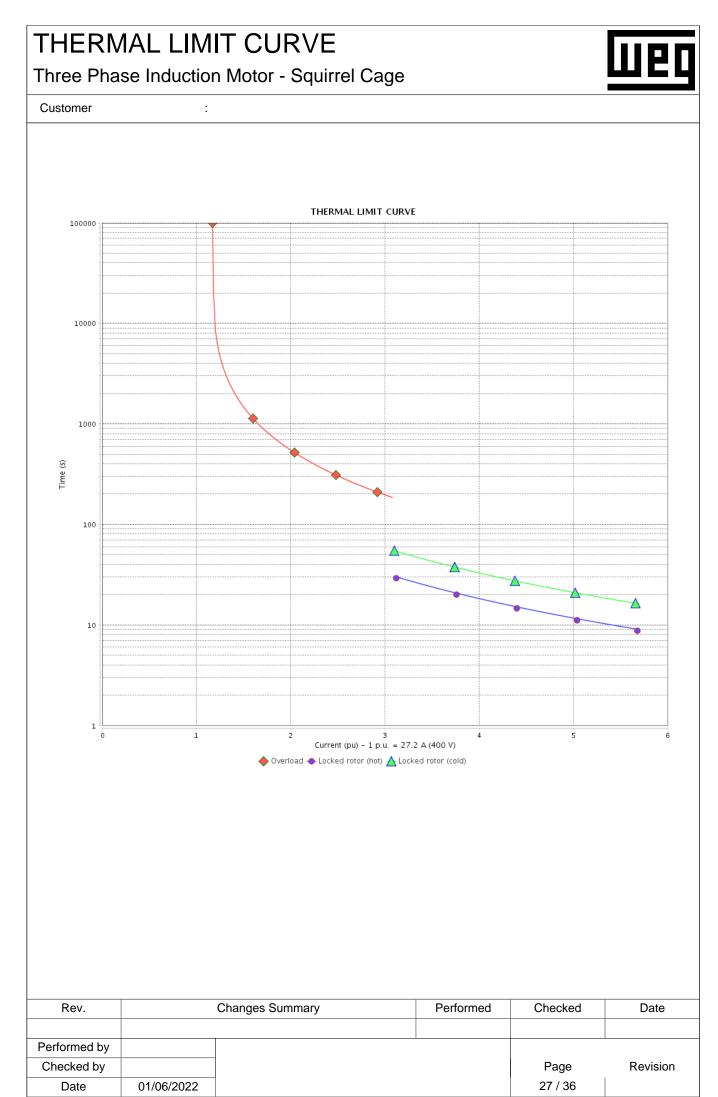
THERMAL LIMIT CURVE						
Three Phase Ind	uction Motor - Squirrel Cage)	шсч			
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14855771			
		Catalog # :	02036ET3E256T-W22G			

Performance		: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	lne Ie	: 28.9 A : 5.1 : 36.3 ft.lb : 160 % : 190 % : 2885 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	t					
Cooling constant	t					
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Checked by					Page	Revision
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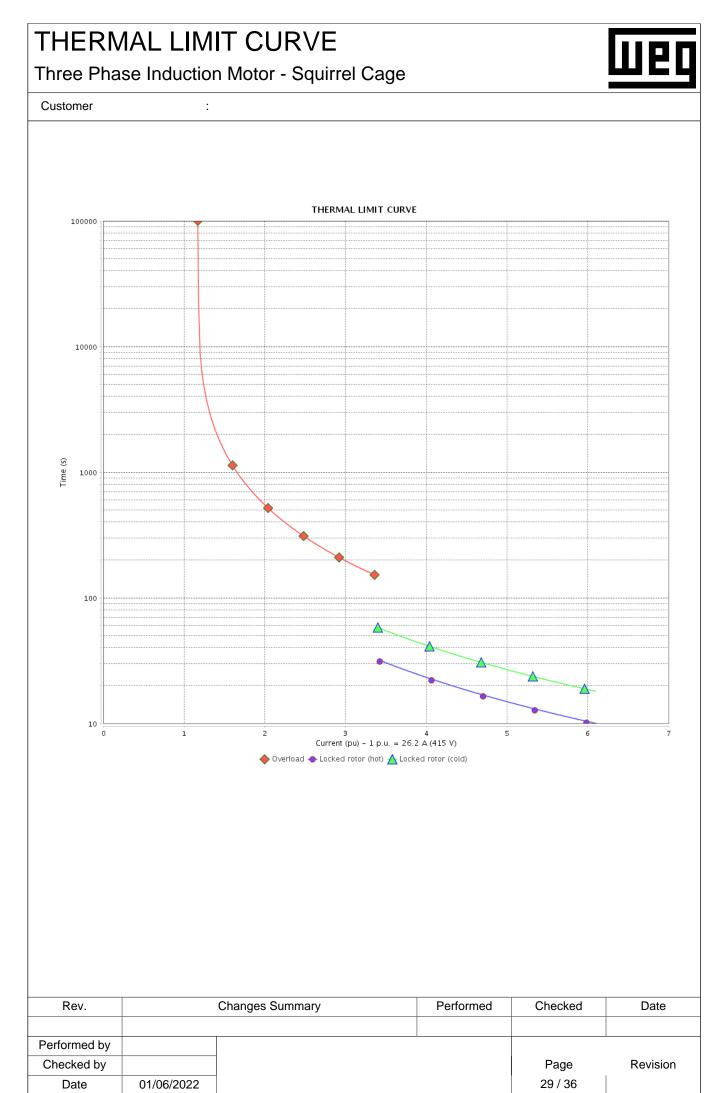
THERMAL I	LIMIT CURVE		Шер
Three Phase Indu	uction Motor - Squirrel Cage)	шсц
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14855771
		Catalog # :	02036ET3E256T-W22G

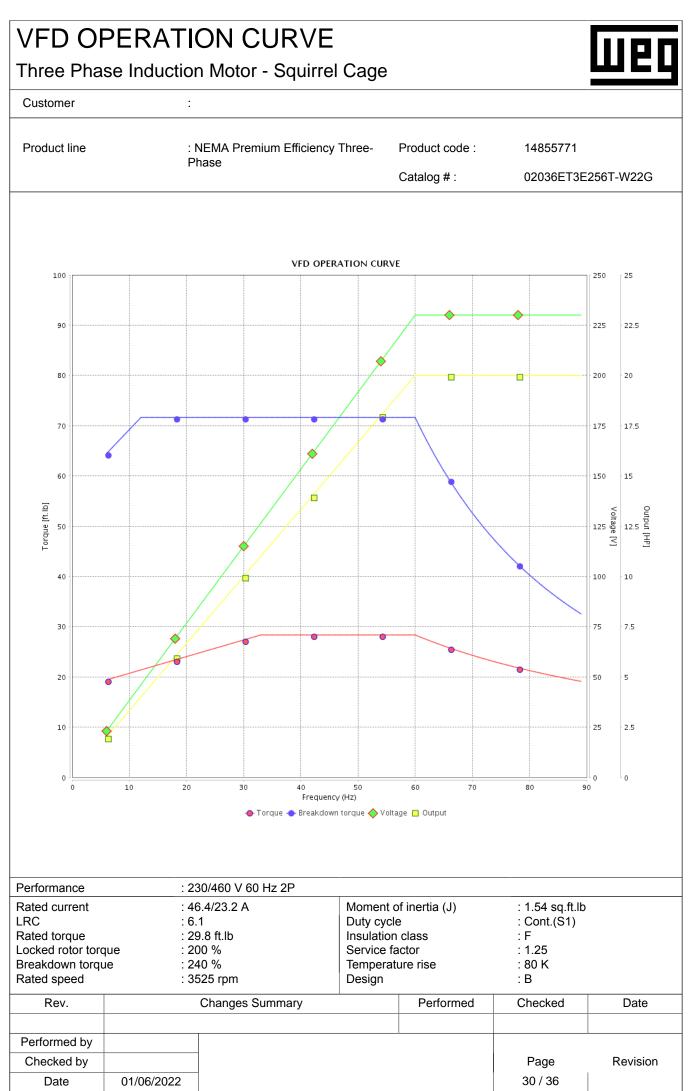
Performance	: 40	00 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 5. : 36 jue : 18 ie : 2	7.2 A .7 6.2 ft.lb 80 % 10 % 905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant						
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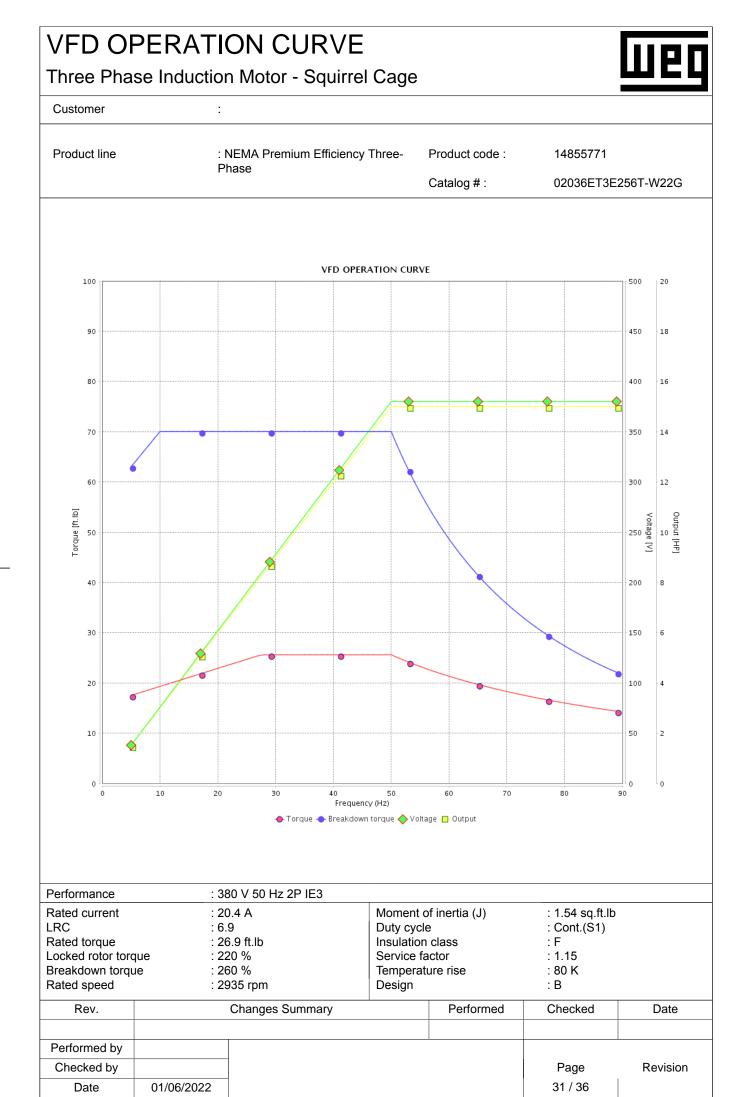


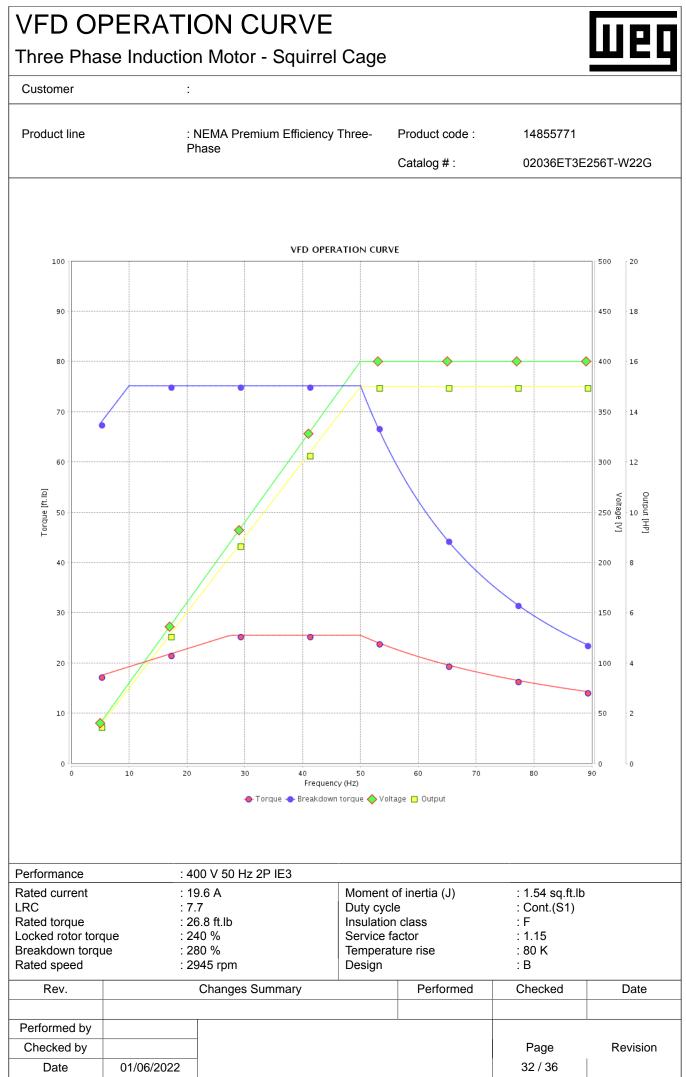
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Customer	:	·			
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14855771		
	Filase	Catalog # :	02036ET3E256T-W22G		

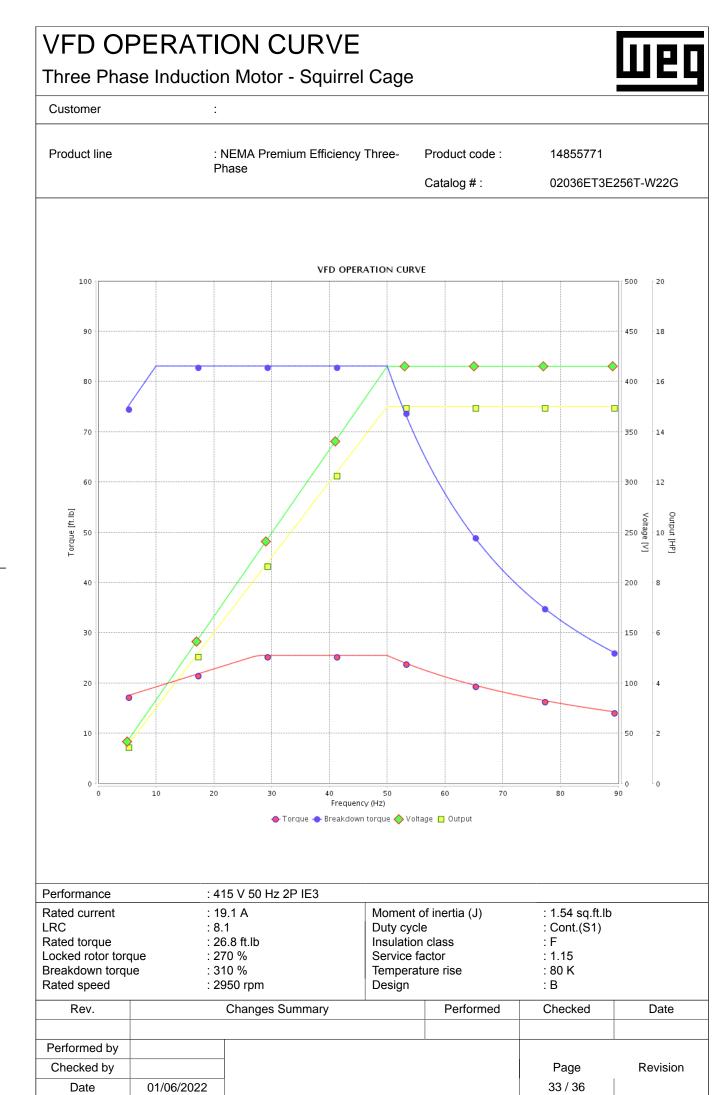
Performance		: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	lne Ie	: 26.2 A : 6.1 : 36.0 ft.lb : 200 % : 229 % : 2915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t				·	
Cooling constant	t					
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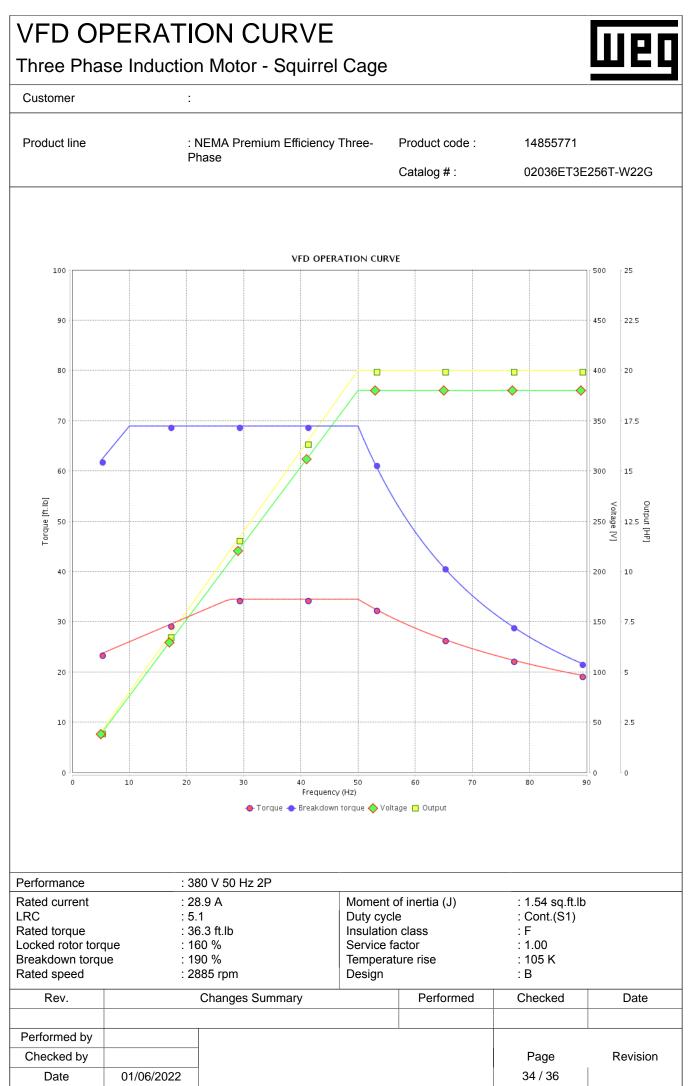


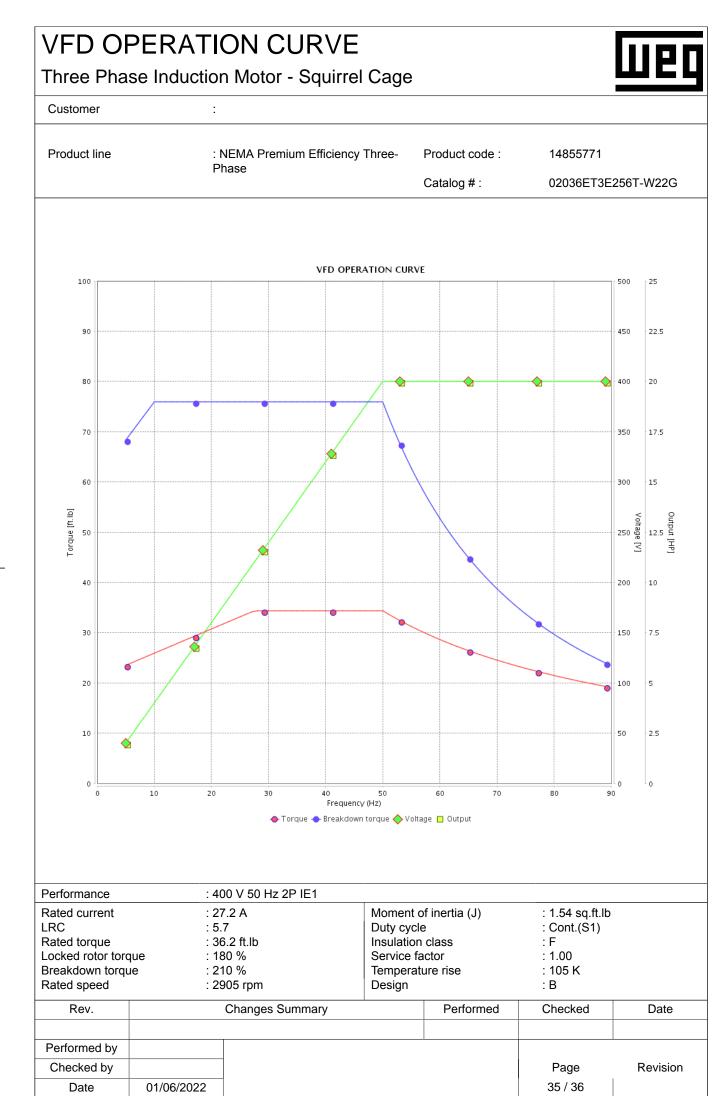


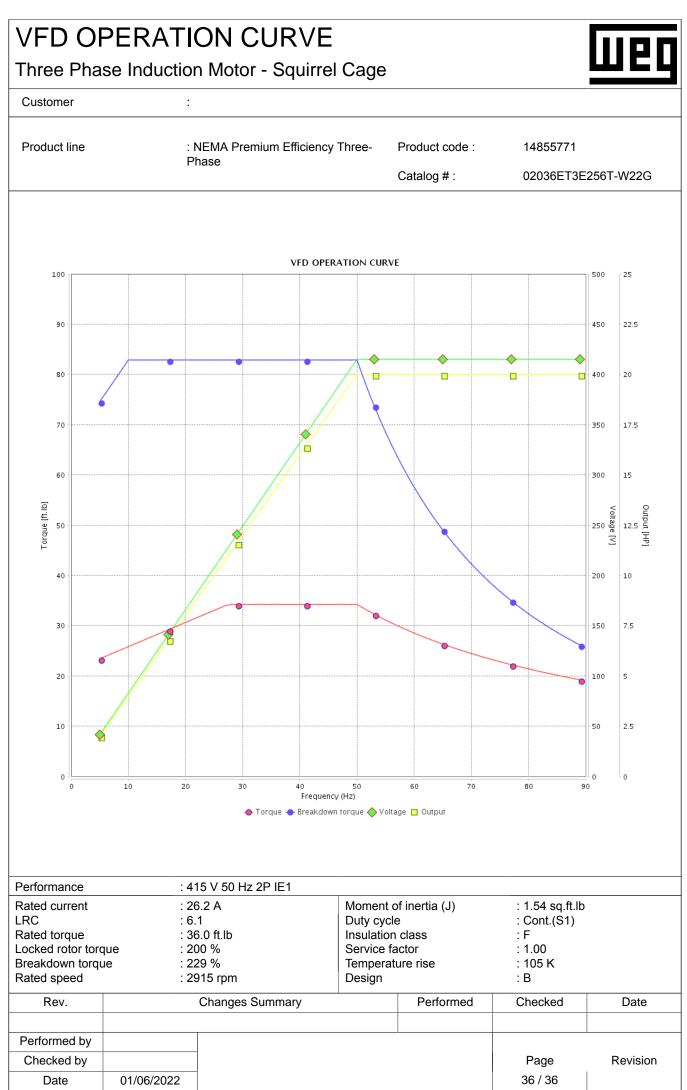


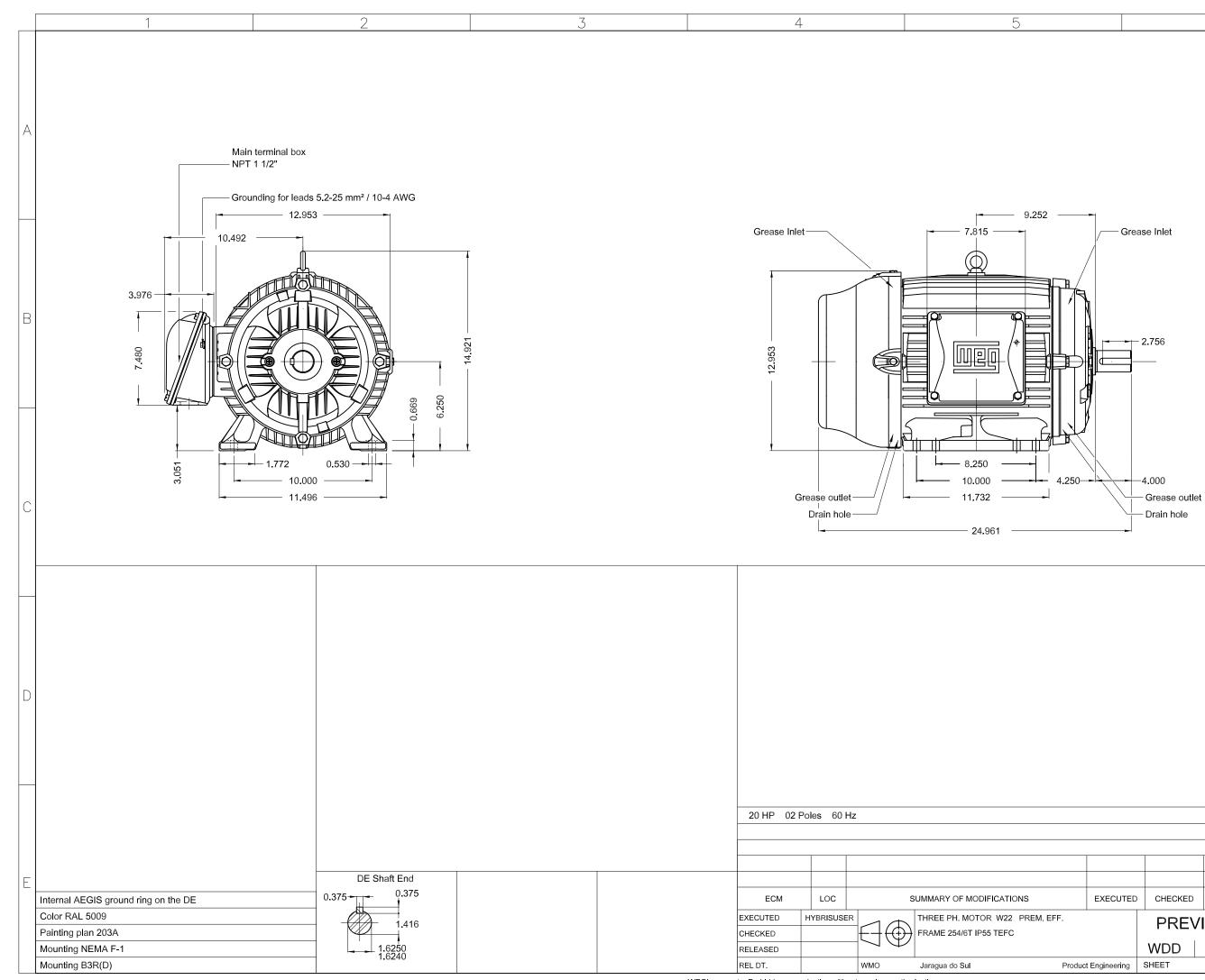












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		WDD		ШЕ	Q.	A3
Product Engineering		SHEET	1 / 1			XME

6

isions in inches Dime

А



Inverter Duty Motor Severe Duty

60Hz: For use on PWM: VT 1000:1, CT 20:1, 1.00SF Mod.TE1BF0X0N

ZIL ⊲ J11 ₀112 JT10 J11 0112 016 JT10 BR/ Fr. 254/6T 60Hz 1000m.a.s.l. IP55 TEFC 329lb PH3 ₹5 719 LT4 ार्ड हाह 014 17 Y18 48557 **N18** V 230/460 A 46.4/23.2 Z Jτ2 ۲<u>1</u>3 μ1 <u>ът</u>2 ~13 ৵ HP 20 kW 15 ΔΔ Ľ2 Δ MADE 208-230V 380//460V SF 1.25 SFA 58.0/29.0 → 6309-C3 (13q) RPM 3525 0.89 PF → 6209-C3 (9g) AMB 40°C INS cl. F DT80K NEWA NOM EFF 91.0% DUTY CONT. DES B Code G MOBIL POLYREX EM (19000h) R USABLE @208V 51.3A SF 1.15 SFA 59.0 20HP 15kW 50Hz 380V 28.9A 2885RPM SF 1.00 EFF 87.5%