## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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#### Customer

	Product line : NEMA Premium Efficiency Three- F Phase					144068	386
	Catal	Catalog # : 02036)		XT3E256T			
Frame: 256TInsulation class: FDuty cycle: Cont.(S1)Ambient temperature: -20°C to +40°CAltitude: 1000 m.a.s.l.Protection degree: IP55Design: B				Cooling meth Mounting Rotation <sup>1</sup> Starting meth Approx. weig Moment of in	iod ht³	: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 358 lb : 1.45 sq.ft.lb	
Output [HP]		20		20	20	n 🗌	20
Poles		2		2	2		2
Frequency [Hz]		60		50	50		50
Rated voltage [V]		230/460		380	40		415
Rated current [A]		46.4/23.2		27.8	26		25.8
. R. Amperes [A]		288/144		136	14		157
_RC [A]		6.2x(Code G)	4.9	(Code D)	5.5x(C		6.1x(Code G)
No load current [A	N N	13.4/6.70		6.40	6.8		7.20
Rated speed [RPN		3530		2900	29		2920
Slip [%]	-	1.94		3.33	3.0		2.67
Rated torque [ft.lb	0	29.8		36.2	36		36.0
Locked rotor torqu		200		140	16		180
Breakdown torque		250		190	21		229
Service factor		1.15		1.00	1.0		1.00
Temperature rise		80 K		80 K	80 K		80 K
Locked rotor time		46s (cold) 26s (hot)	30s (c	cold) 17s (hot)	30s (cold)		30s (cold) 17s (hot)
Noise level <sup>2</sup>		75.0 dB(A)		0.0 dB(A)	70.0 c		70.0 dB(A)
	25%	90.0	89.9		89		89.9
	50%	90.2		90.2	90		90.2
Efficiency (%)	75%	91.0		91.0	91		91.0
	100%	91.0		91.0	91		91.0
	25%	0.55		0.61	0.5		0.55
Power Factor	50%	0.79		0.83	0.8		0.79
	75%	0.86		0.88	0.8		0.86
	100%	0.89		0.90	0.9		0.89
Bearing type Sealing Lubrication inter Lubricant amour		: 6309 C3 62 : Oil Seal Lip : 15797 h 18 : 13 g	447 h 9 g	Foundation loa Max. traction Max. compres		: 218 lb : 575 lb	
Lubricant type		: Mobil Polyrex E	EM				
Lubricant type Notes USABLE @208V	/ 50.6A SF 1.	· · · · · · · · · · · · · · · · · · ·	ΞM				
Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1	aces and car ed. totor from the 1m and with t weight subject ocess.	10 SFA 55.6A					sts with sinusoidal stipulated in NEMA
Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 2 (3) Approximate v manufacturing pro-	aces and car ed. totor from the 1m and with t weight subject ocess.	10 SFA 55.6A ncel the previous one, w e shaft end. olerance of +3dB(A).	hich	power supply, MG-1.			stipulated in NEMA
Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and car ed. totor from the 1m and with t weight subject ocess.	10 SFA 55.6A ncel the previous one, w e shaft end. olerance of +3dB(A). et to changes after	hich	power supply, MG-1.	subject to the	e tolerances	stipulated in NEMA
Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	aces and car ed. totor from the 1m and with t weight subject ocess.	10 SFA 55.6A ncel the previous one, w e shaft end. olerance of +3dB(A). et to changes after	hich	power supply, MG-1.	subject to the	e tolerances Checked	stipulated in NEMA
Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and car ed. totor from the 1m and with t weight subject ocess.	10 SFA 55.6A ncel the previous one, where the previous	hich	power supply, MG-1.	subject to the	e tolerances	stipulated in NEMA

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Customer

ID	Application	Thermal protection Type	Quantity	Sonaina	Femperature
1	Winding	Thermostat - 2 wires	1 x Phase	15	55 °C
Dev			Derferre!	Oh e elso al	D-1-
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### TORQUE AND CURRENT VS SPEED CURVE

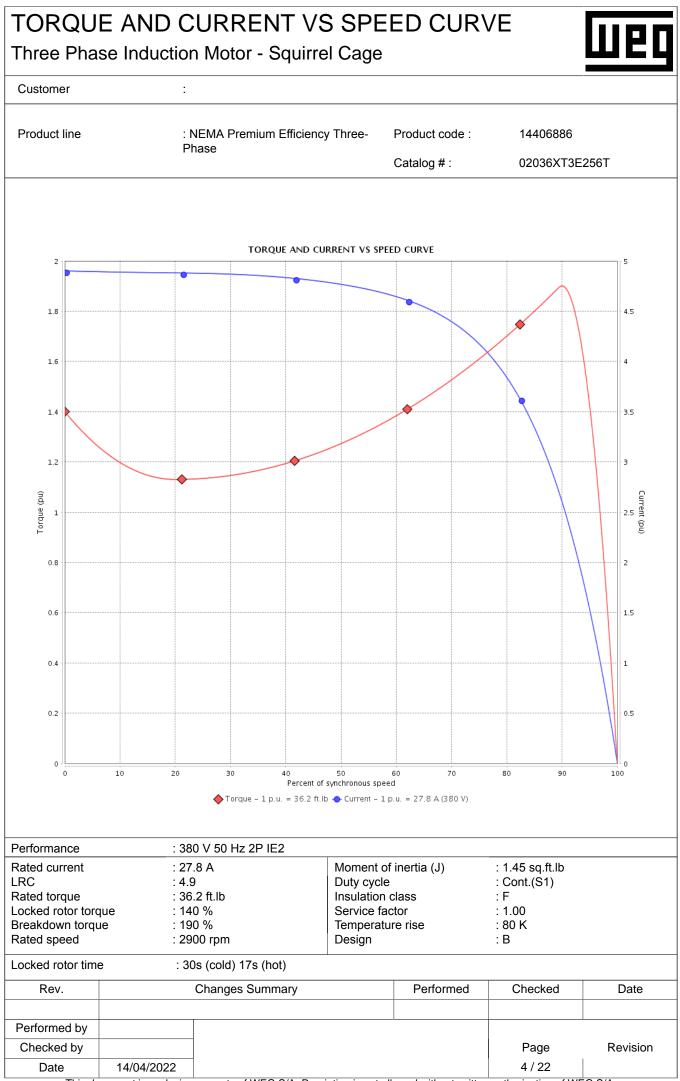
Three Phase Induction Motor - Squirrel Cage

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Product line	: NEMA Premium Efficier	ncy Three-	Product code :	14406886	
	Phase		Catalog # :	02036XT3E2	256T
	TORQUE AND	CURRENT VS SPEE	D CURVE		
3					10
2.7					9
2.4					8
2.1					7
×					
1.8	•				6
(nd) an 1.5 brop					Curre
					Current (pu)
1.2					4
0.9				\ <u>\</u>	З
0.6					2
0.3					1
o ]					
0	10 20 30 40 Percent	50 of synchronous speed	60 70 1	80 90	100
	♦ Torque - 1 p.u. = 29.8 f	ft.lb 🔶 Current – 1 p.	u. = 23.2 A (460 V)		
erformance	: 230/460 V 60 Hz 2P				
ated current	: 46.4/23.2 A	Moment of	inertia (J)	: 1.45 sq.ft.lb	
RC ated torque	: 6.2 : 29.8 ft.lb	Duty cycle Insulation c		: Cont.(S1) : F	
ocked rotor torque	: 200 %	Service fac	tor	: 1.15	
reakdown torque ated speed	: 250 % : 3530 rpm	Temperatur Design	e rise	: 80 K : B	
ocked rotor time	: 46s (cold) 26s (hot)				
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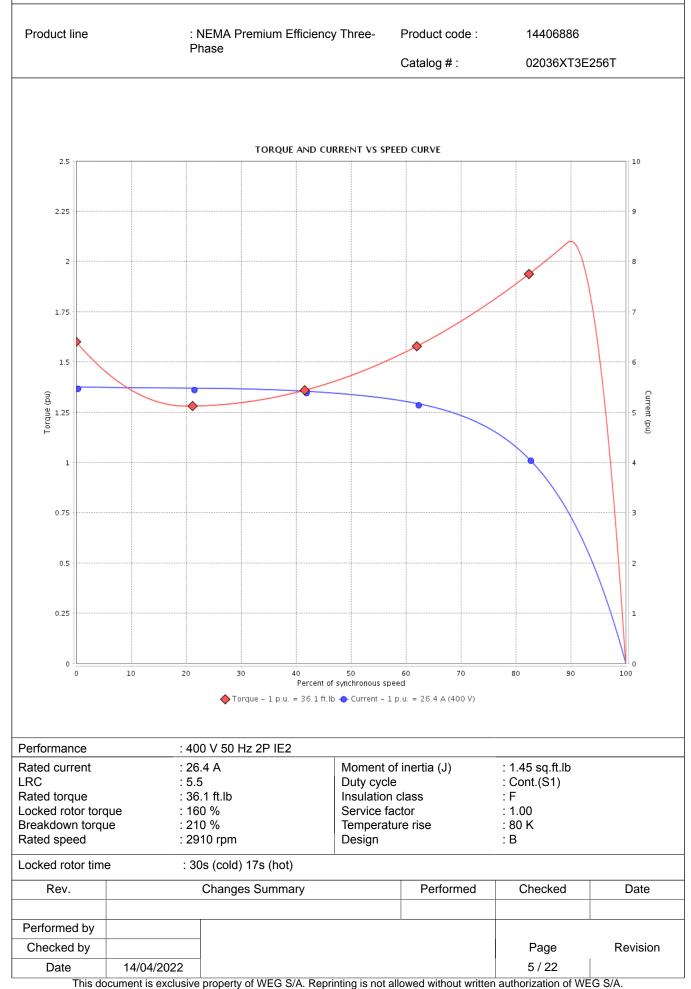
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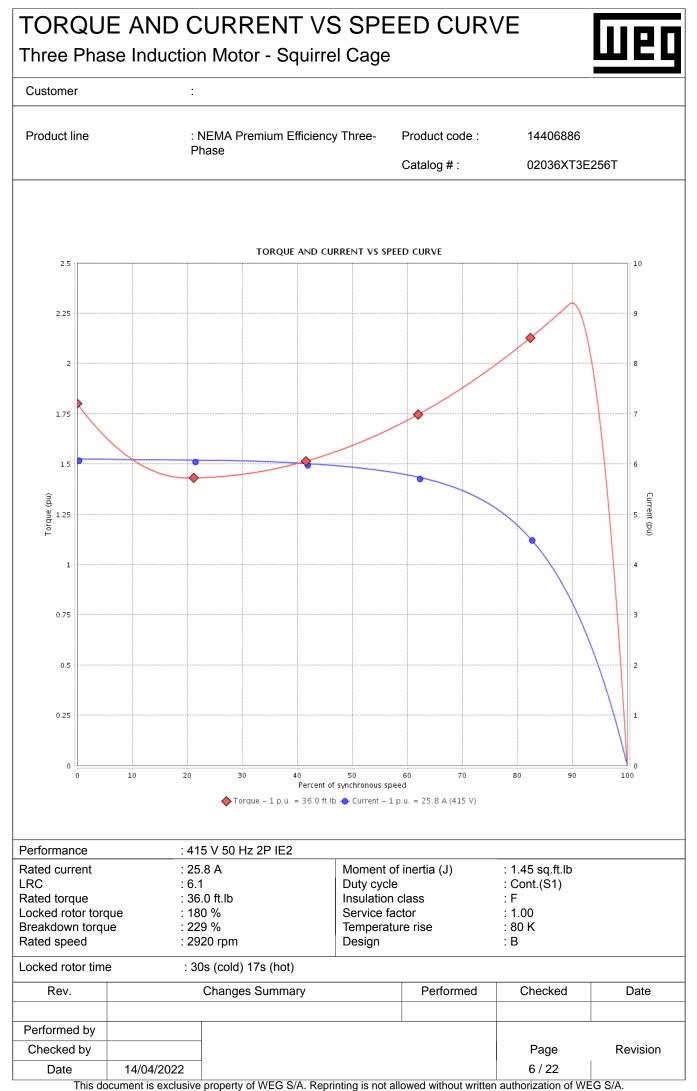
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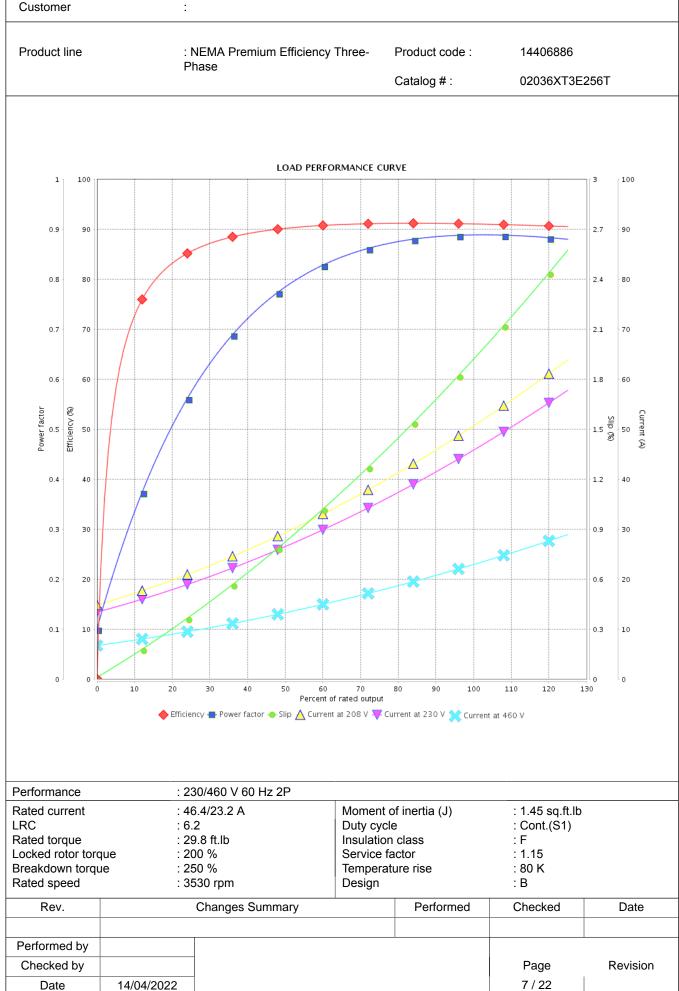




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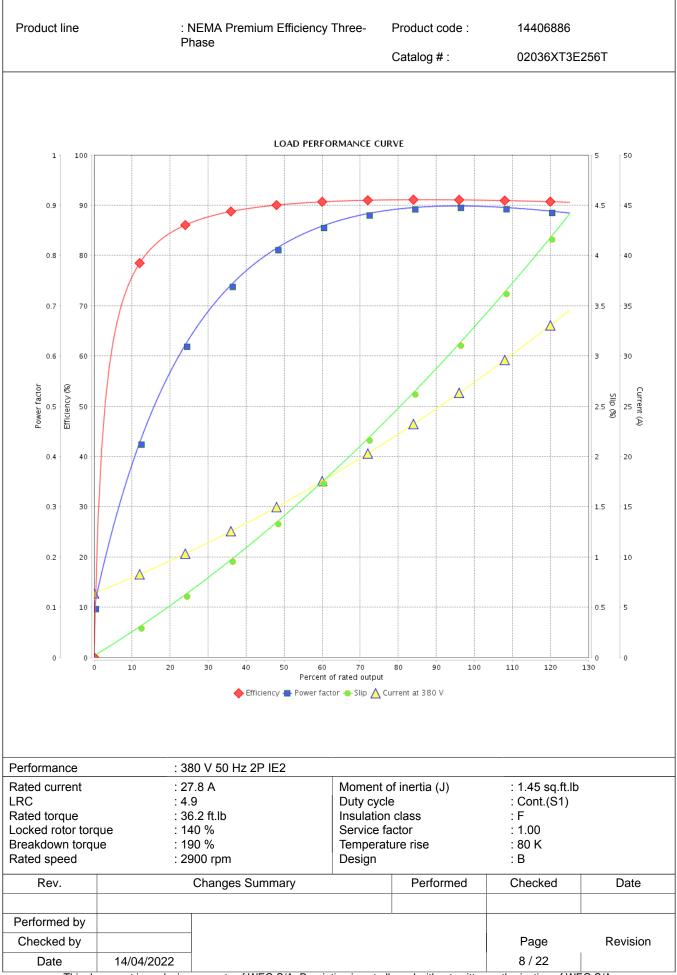
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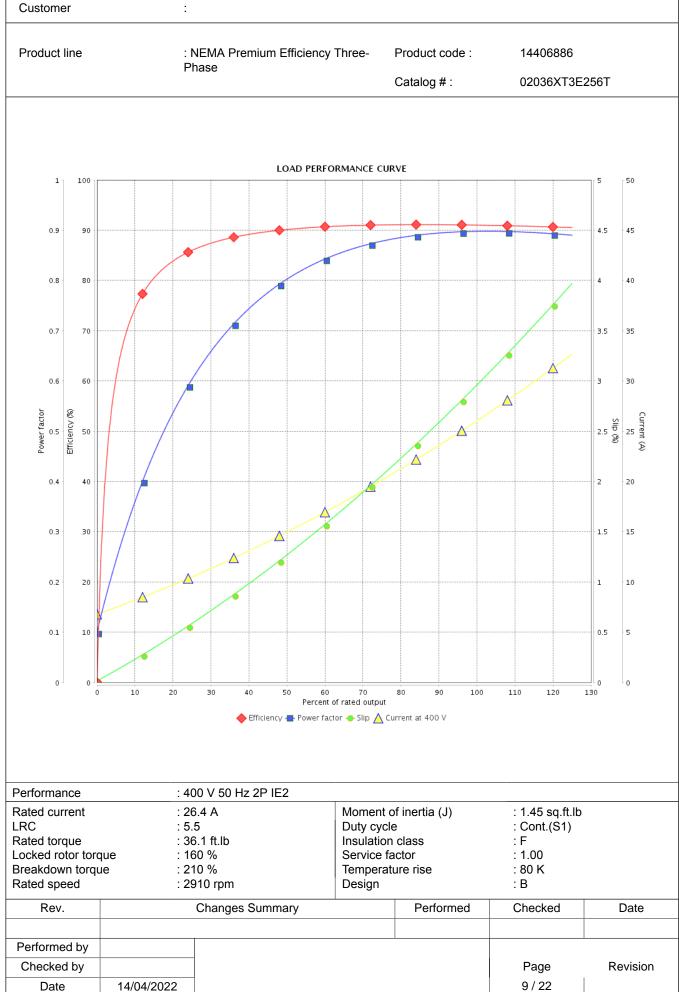


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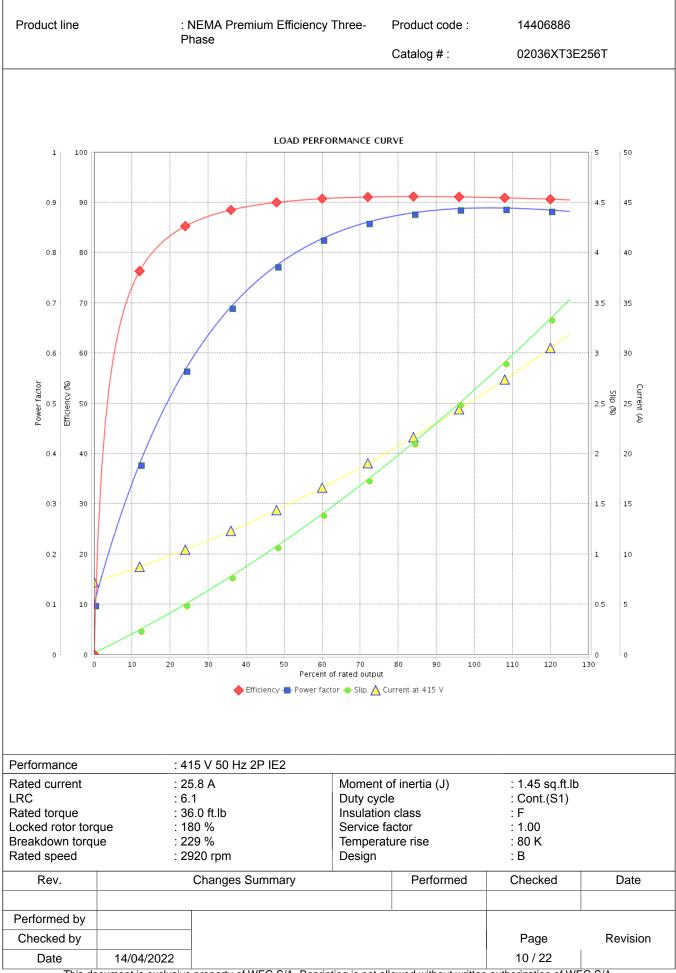
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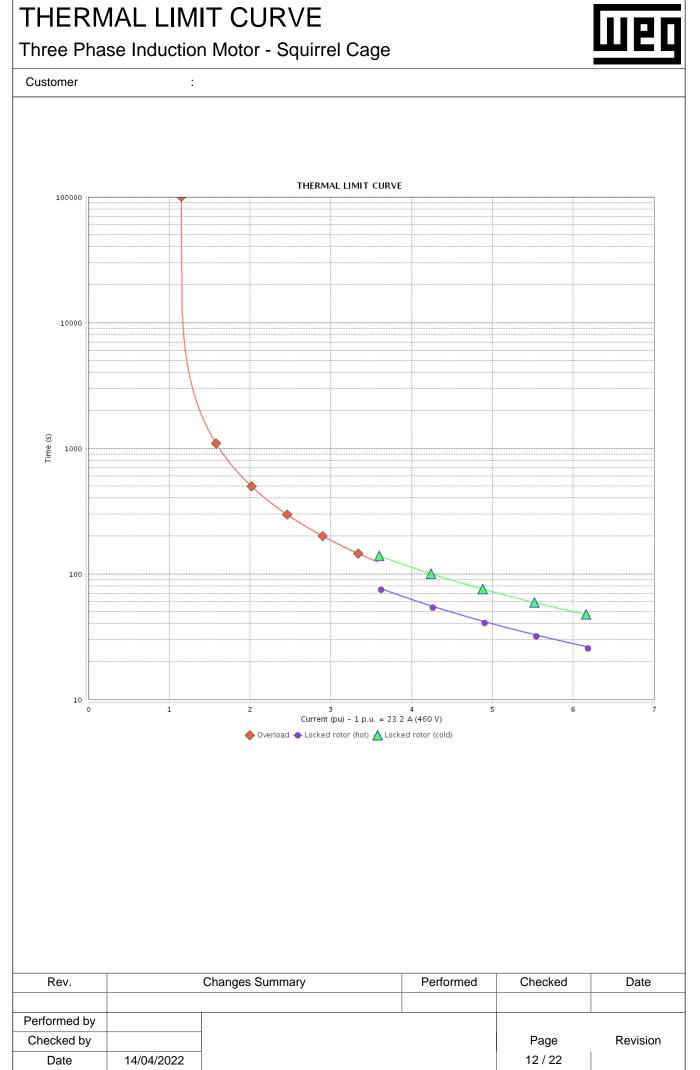
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#### Customer

Dhace	
Phase Catalog # : 02036XT3E2	256T

Шеq

Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 2 jue : 2 ie : 2			class ctor	: 1.45 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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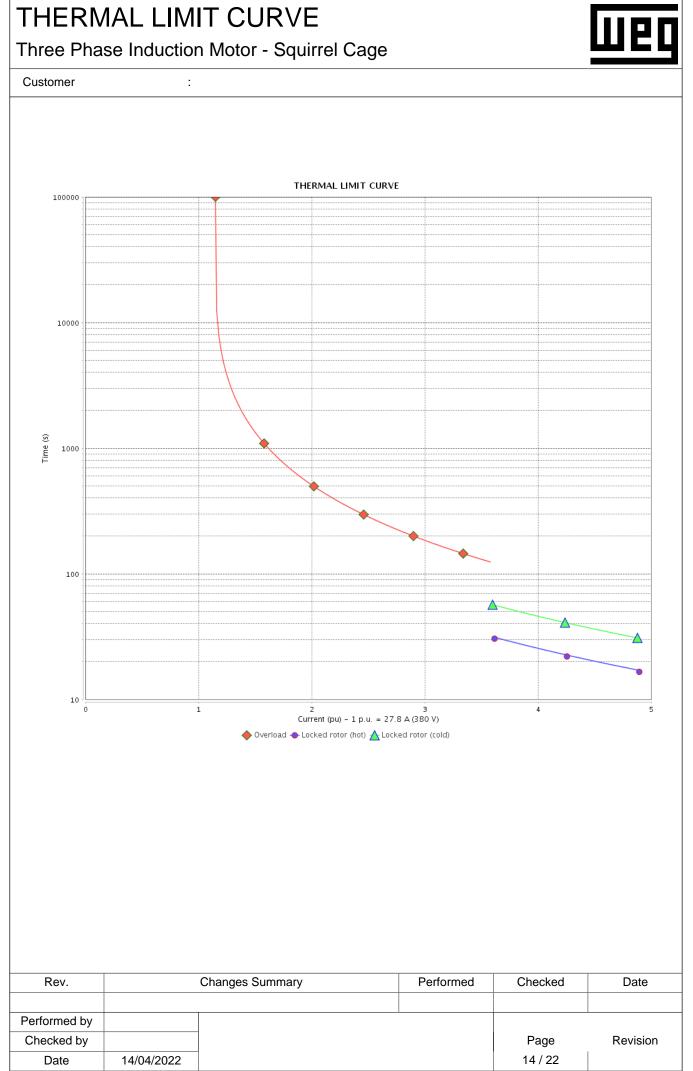
Three Phase Induction Motor - Squirrel Cage

#### Customer

Catalog # : 02036XT3E256T	Product line	: NEMA Premium Efficiency Three-	Product code :	14406886
		Phase	Catalog # :	02036XT3E256T

Шед

Performance : 380 V 50 Hz 2P IE2						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 4. : 36 jue : 14 ie : 19	.9Duty of6.2 ft.lbInsula40 %Servio90 %Tempo		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Heating constant	İ.					
Cooling constant						
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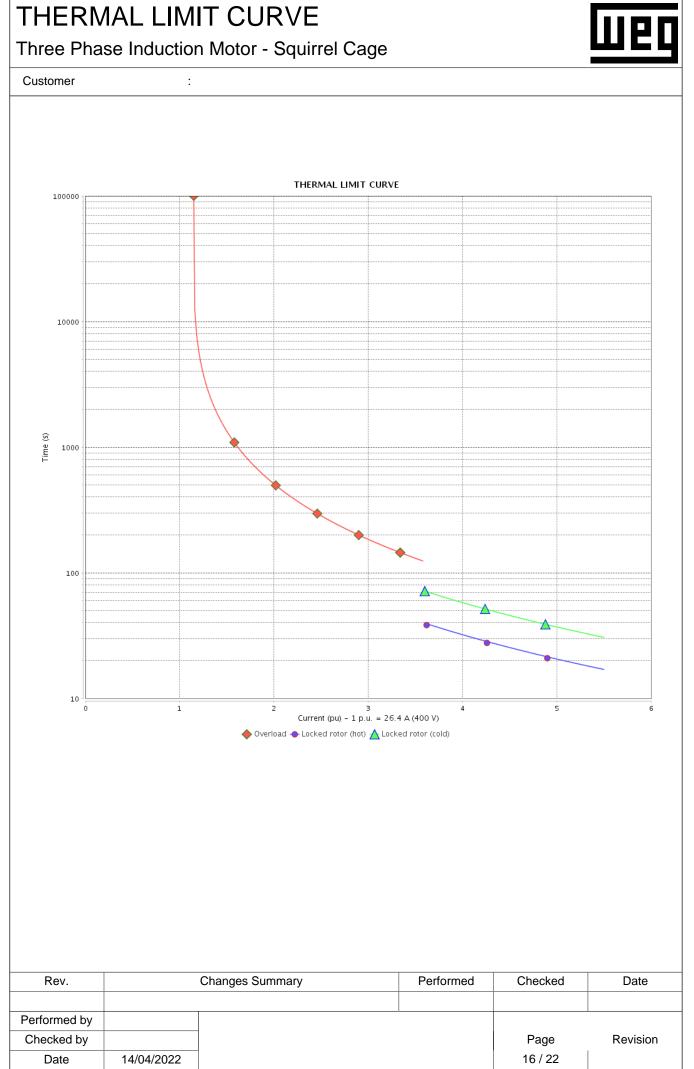
Three Phase Induction Motor - Squirrel Cage

#### Customer

Catalog # : 02036XT3E256T	Product line	: NEMA Premium Efficiency Three-	Product code :	14406886
		Phase	Catalog # :	02036XT3E256T

Шеq

Performance	: 4	00 V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5.5 Duty   e : 36.1 ft.lb Insulation   torque : 160 % Servition   orque : 210 % Temp		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.45 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant							
Cooling constant							
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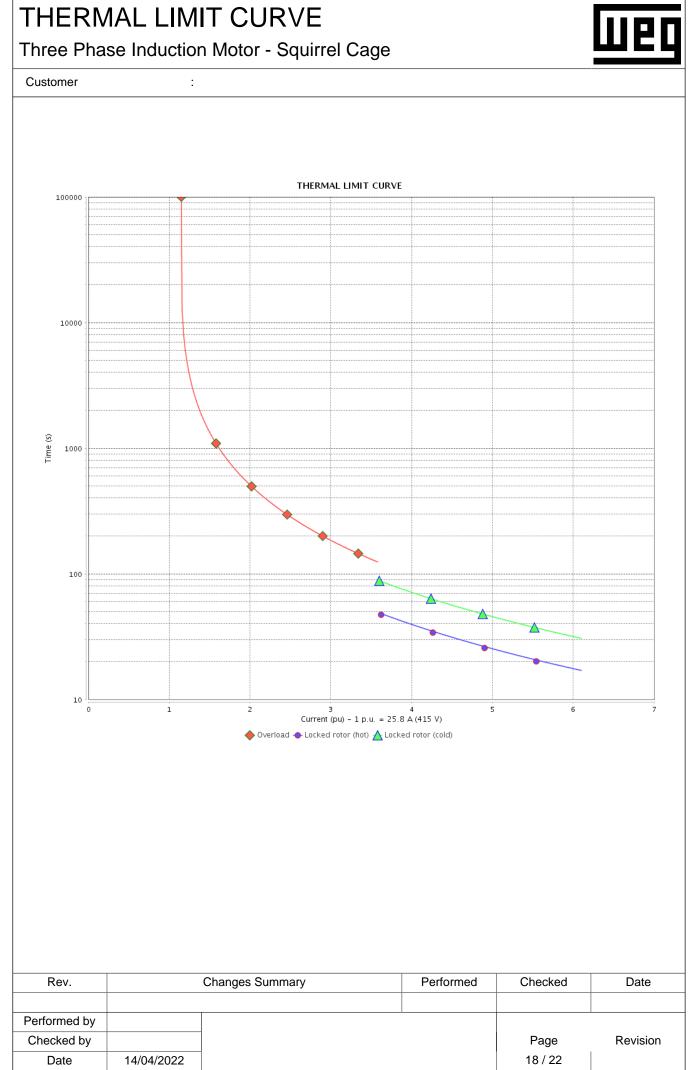
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#### Customer

Catalog # : 02036XT3E256T	Product line	: NEMA Premium Efficiency Three-	Product code :	14406886
		Phase	Catalog # :	02036XT3E256T

Шед

Performance : 415 V 50 Hz 2P IE2						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	RC: 6.1Iated torque: 36.0 ft.lbIocked rotor torque: 180 %Seakdown torque: 229 %*ated speed: 2920 rpmI		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.45 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					·	
Cooling constant						
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