## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: NEMA Premium Effice Phase	ciency T	hree- Pro	duct code :	144078	20
		FildSe		Cat	alog # :	01509X	T3E286T
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 286T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 495 lb : 8.18 sq.ft.lb	
Output [HP]		15	1	15	1	6	15
Poles		8		8	3	-	8
Frequency [Hz]		60		50	5	-	50
Rated voltage [V]		230/460		380	40		415
Rated current [A]		38.0/19.0		23.3	22		21.4
. R. Amperes [A]		232/116		142	13		131
_RC [A]		6.1x(Code G)	6 1	1x(Code G)	6.1x(C		6.1x(Code G)
No load current [A	1	16.3/8.13	0.	8.01	8.6		9.23
Rated speed [RPN		880		720	72		730
Slip [%]		2.22		4.00	3.3		2.67
Rated torque [ft.lb]	1	89.5		109	10		108
Locked rotor torqu		240		180	20		229
Breakdown torque		240		180	20		229
Service factor	. [ , .]	1.15		1.00	1.0		1.00
Temperature rise		80 K		80 K	80		80 K
Locked rotor time		66s (cold) 37s (hot)	660 (4	cold) 37s (hot)			66s (cold) 37s (hot)
Noise level <sup>2</sup>		54.0 dB(A)			51.0 0		51.0 dB(A)
	25%	91.4	5	93.3	93		90.6
	50%	91.0		91.0	91		90.2
Efficiency (%)	75%	91.7		90.2	91		90.2
	100%	91.0		87.5	88		89.5
	25%	0.41		0.47	0.4		0.41
	50%	0.66		0.72	0.6		0.66
Power Factor	75%	0.76		0.80	0.0		0.76
	100%	0.80		0.82	0.8		0.80
Drive end Bearing typeNon drive ControlBearing type:6311 C36211Sealing:Oil SealLip SealLubrication interval:20000 h20000			11 C3	Max. traction : 835 lb			
Notes USABLE @208V	42.0A SF 1.	15 SFA 48.3A		1			
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	ncel the previous one, where shaft end. olerance of +3dB(A). ot to changes after	hich				ts with sinusoidal stipulated in NEMA
Rev.		Changes Summary	,		Performed	Checked	Date
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		-	Description		1 11 1 11		

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ID	Application	Туре	Quantity	Sensing 1	<b>Femperature</b>
1	Winding	Thermostat - 2 wires	1 x Phase		55 °C
1	winding	memostat - 2 wires	I X FIIdSe		55 C
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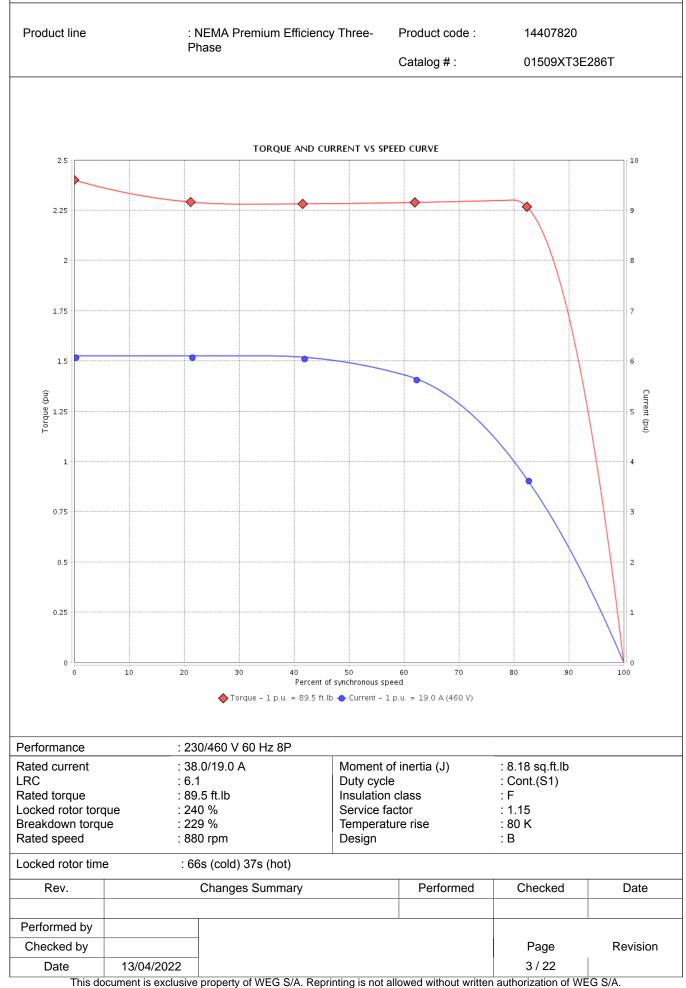
### TORQUE AND CURRENT VS SPEED CURVE

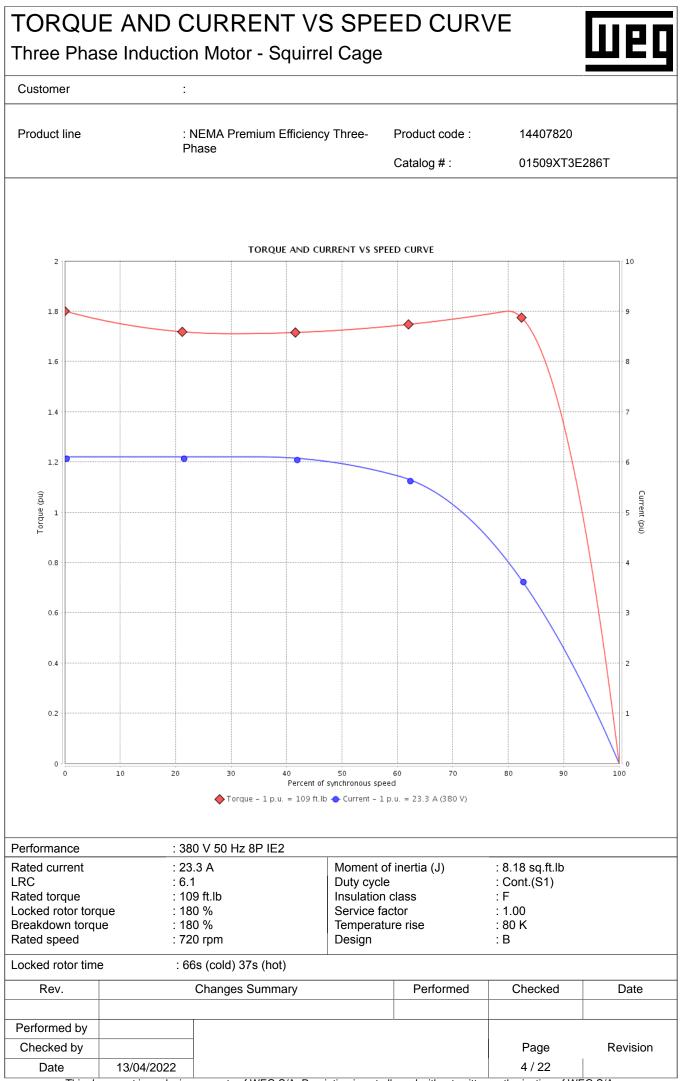
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Customer





### TORQUE AND CURRENT VS SPEED CURVE

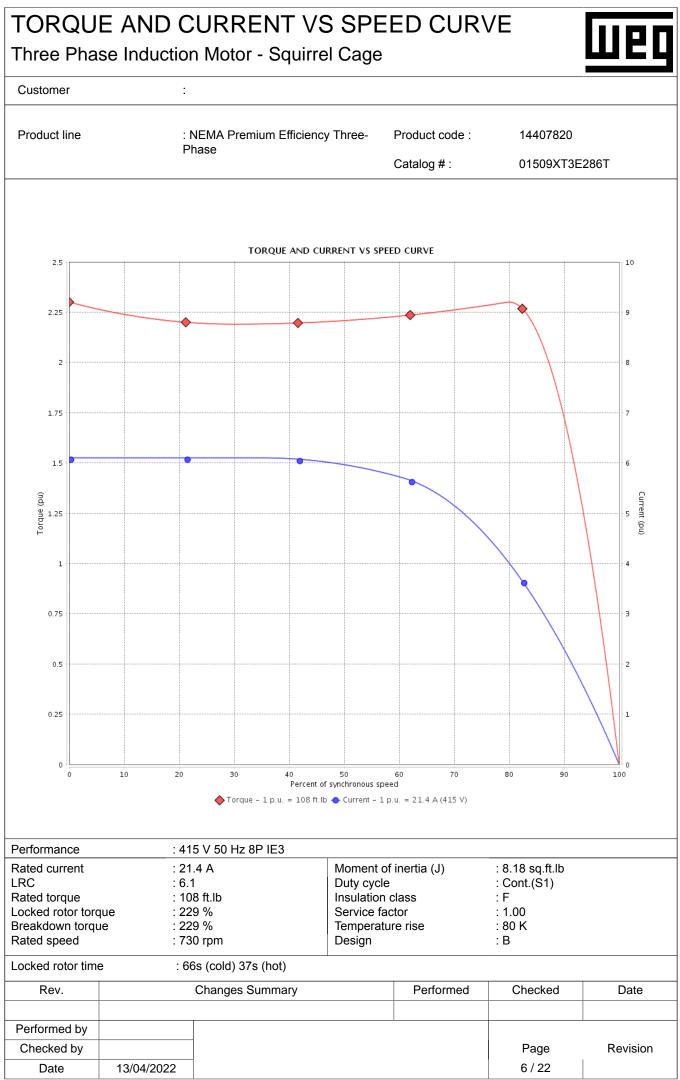
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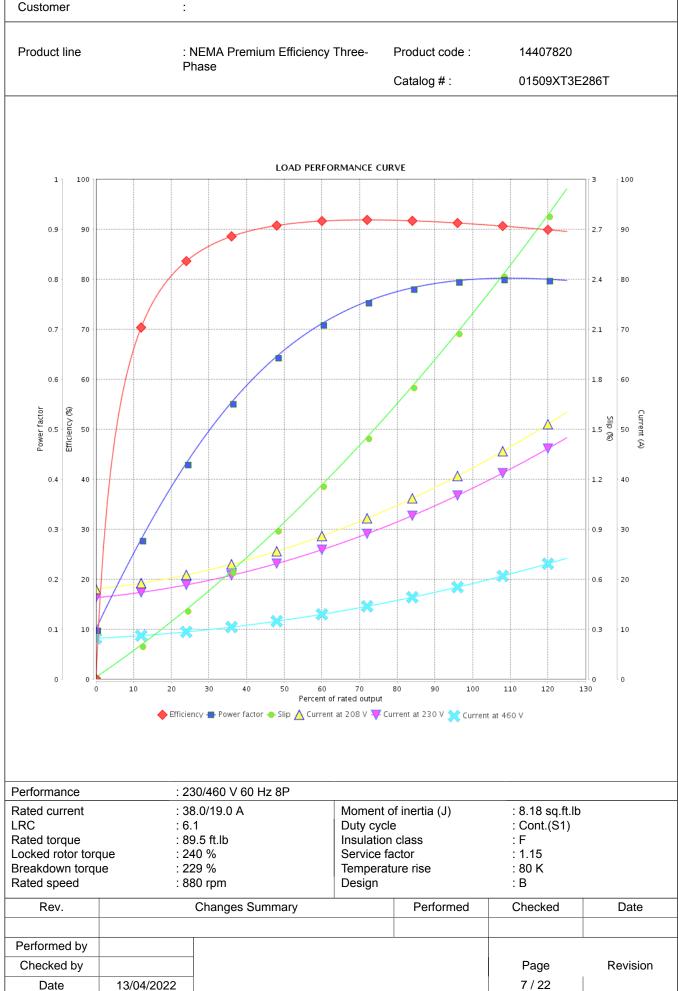
Customer

Product line		: NEMA Premium Efficiency Three- Phase		14407820	
	Pliase			01509XT3E286T	
	TORQUE A	AND CURRENT VS SI	PEED CURVE		
2.5					10
2.25					9
2			•	•	8
1.75	×	•			7
1.75					
1.5					б
(nd)					Curre
ਹੁੰ 9 1.25 ਦ					Current (pu)
1					4
				•	
0.75					3
0.5 -					2
0.25					
0					
0 10	F	50 Percent of synchronous s 109 ft.lb 🔶 Current – 3		80 90	100
	Violque - 1 p.u. =	109 It.ib 🔷 Current	i p.u. = 22.1 A (400 V)		
erformance	: 400 V 50 Hz 8P IE2				
ated current RC	: 22.1 A : 6.1	Duty cyc		: 8.18 sq.ft.lb : Cont.(S1)	
ated torque ocked rotor torque	: 109 ft.lb : 200 %	Insulation Service f		: F : 1.00	
eakdown torque ated speed	: 200 % : 725 rpm	Tempera		: 80 K : B	
ocked rotor time	: 66s (cold) 37s (hot)				
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### Customer



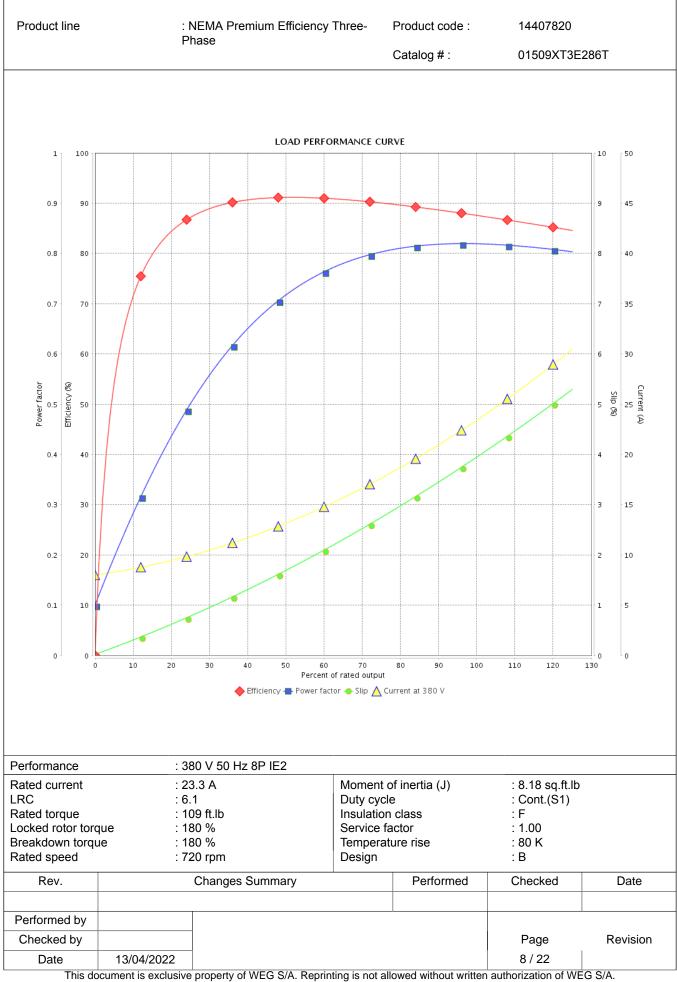
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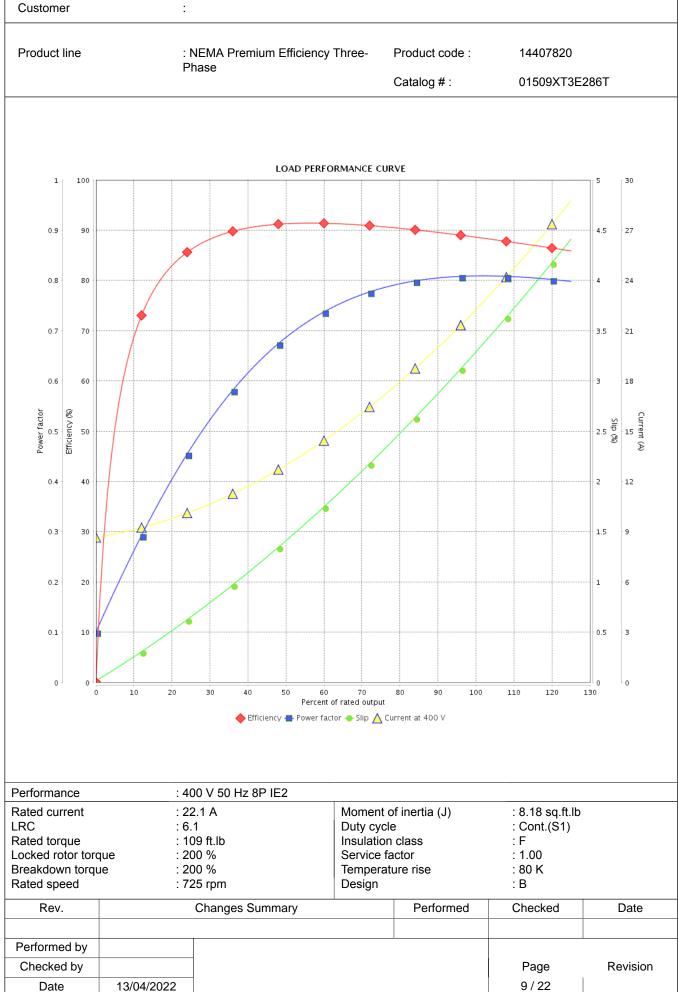


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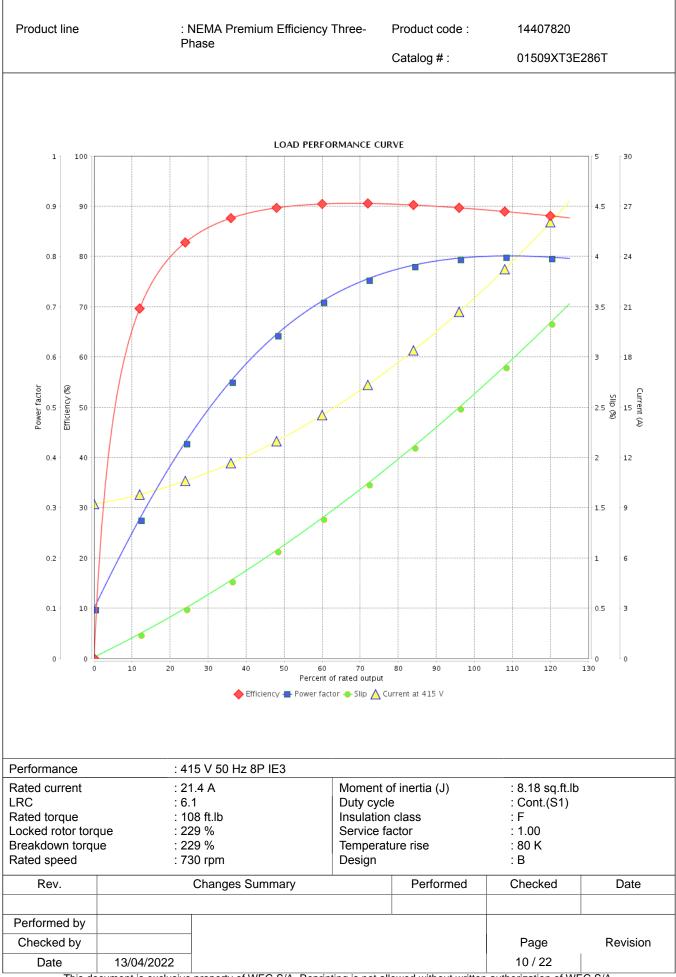
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Customer



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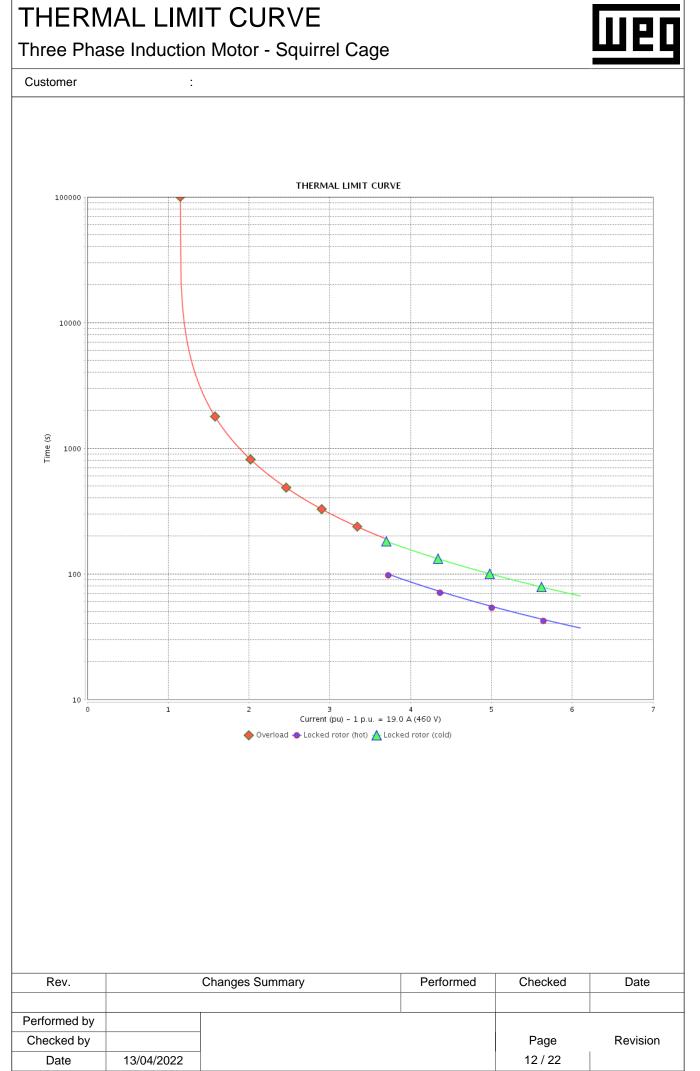
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407820
	Phase	Catalog # :	01509XT3E286T

Шед

Performance	: 2:	30/460 V 60 Hz 8P				
Rated current: 38.0/19.0 ALRC: 6.1Rated torque: 89.5 ft.lbLocked rotor torque: 240 %Breakdown torque: 229 %Rated speed: 880 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 8.18 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant						
Cooling constant						
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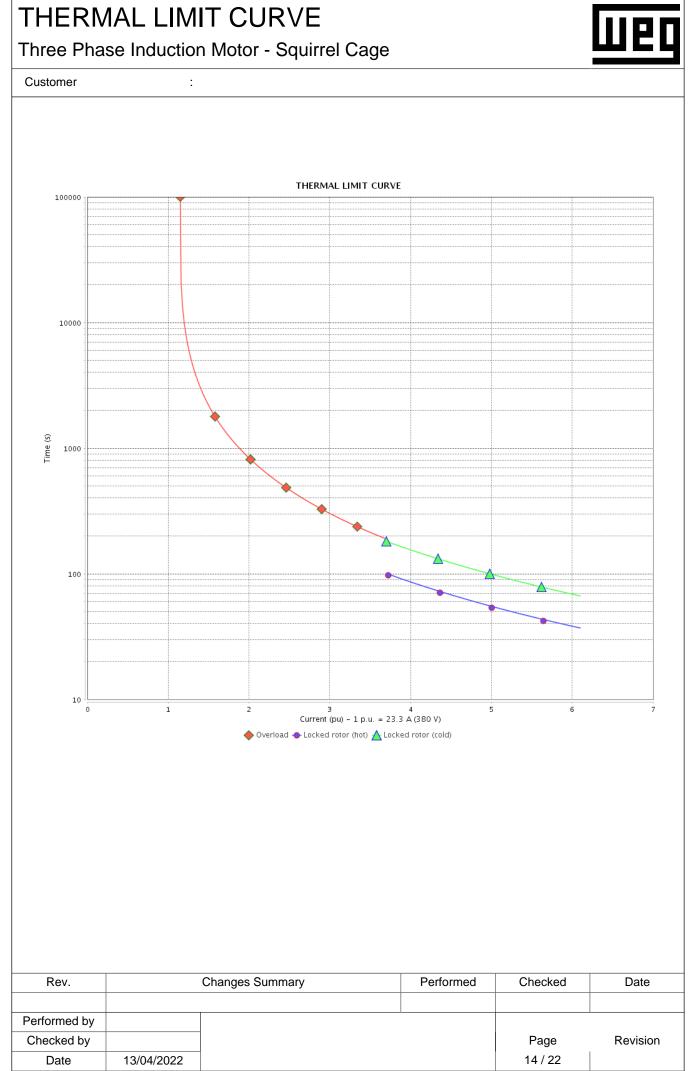
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#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407820
	Phase	Catalog # :	01509XT3E286T

Шед

Performance	: 38	: 380 V 50 Hz 8P IE2					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 10 iue : 18 ie : 18	3.3 A 1 09 ft.lb 80 % 80 % 20 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		Duty cycle: Cont.(\$1)Insulation class: FService factor: 1.00Temperature rise: 80 K		
Heating constant							
Cooling constant							
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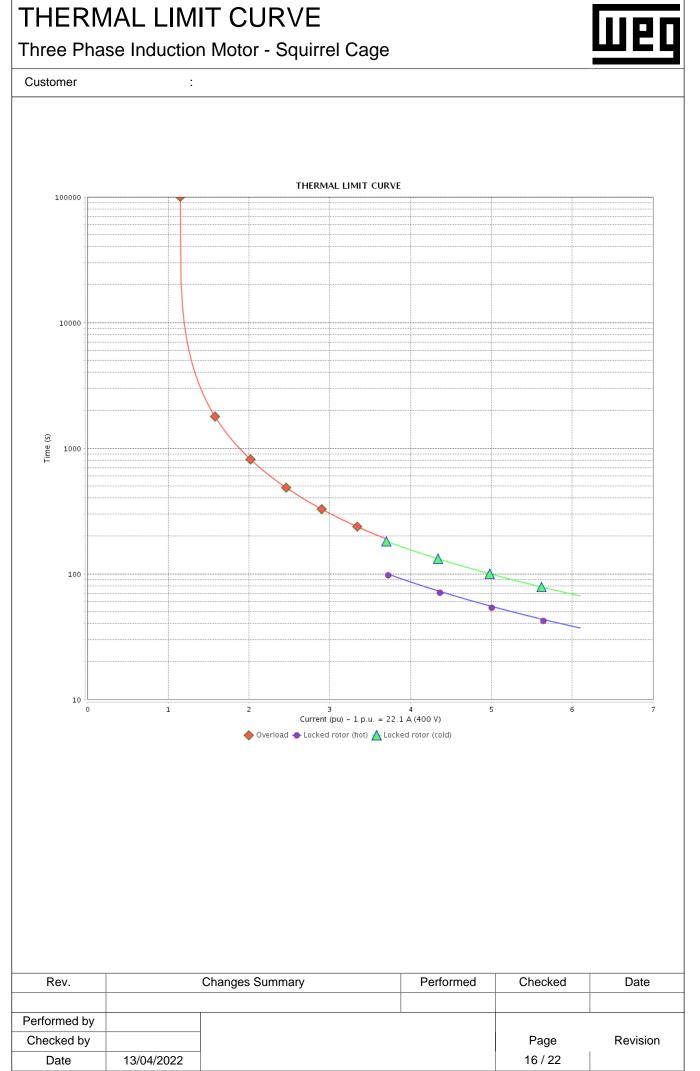
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#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407820
	Phase	Catalog # :	01509XT3E286T

Шед

Performance	: 40	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 10 ; 10 ; 20 ; 20 ; 20	2.1 A 1 09 ft.lb 00 % 00 % 25 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 8.18 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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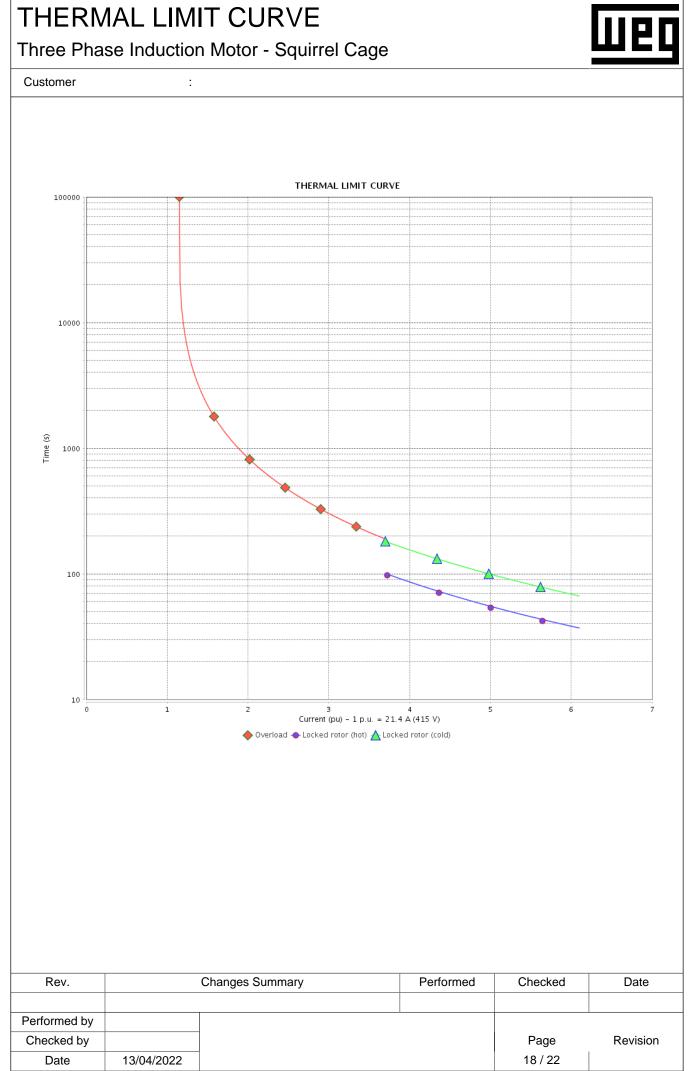
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407820
	Phase	Catalog # :	01509XT3E286T

Шед

Performance	: 47	: 415 V 50 Hz 8P IE3					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 10 ; 10 ; 22 ; 22 ; 22	1.4 A 1 08 ft.lb 29 % 29 % 30 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 8.18 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant							
Cooling constant							
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