DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effic	ciency T	hree- Pro	oduct code :	144068	36
		Phase		Cat	talog # :	01518X	T3E254T
Frame: 254TInsulation class: FDuty cycle: Cont.(S1)Ambient temperature: -20°C to +40°CAltitude: 1000 m.a.s.l.Protection degree: IP55Design: B			Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 328 lb : 2.31 sq.ft.lb		
Output [HP]		15		15	1	5	15
Poles		4		4		4	4
Frequency [Hz]		60		50	5	50	50
Rated voltage [V]		230/460		380	40	00	415
Rated current [A]		36.8/18.4		22.1		1.3	20.8
. R. Amperes [A]		269/134		128		36	141
LRC [A]		7.3x(Code J)	5.8	Bx(Code G)	6.4x(C	ode G)	6.8x(Code H)
No load current [A		17.2/8.60		8.40	9.	20	9.60
Rated speed [RPN		1770		1455		60	1465
Slip [%]		1.67		3.00		67	2.33
Rated torque [ft.lb		44.5		54.1		4.0	53.8
Locked rotor torqu		300		220		50	270
Breakdown torque	e [%]	300		229		50	270
Service factor		1.15		1.00		00	1.00
Temperature rise		80 K		80 K) K	80 K
Locked rotor time		46s (cold) 26s (hot)	45s (cold) 25s (hot)) 25s (hot)	45s (cold) 25s (hot)
Noise level ²		69.0 dB(A)	6	7.0 dB(A)		dB(A)	67.0 dB(A)
Efficiency (%)	25%	89.4		92.1		1.4	90.8
	50%	90.2		91.0 91.7	91		91.0
	75%	91.7				1.7	91.0
	100%	92.4	90.2			1.0	91.0
	25%	0.39		0.45		42	0.39
Power Factor	50%	0.65		0.71		68	0.64
	75%	0.75		0.79		77	0.75
Bearing type	100%		<u>ive end</u> 09 C3		loads	82	0.81
Sealing		: Oil Seal Lip		Max. traction Max. compression		: 532 lb : 860 lb	
Lubrication inter	val		000 h		0331011	. 000 15	
Lubricant amour			9 g				
Lubricant type		: Mobil Polyrex E					
Notes USABLE @208V	′ 40.7A SF 1.	15 SFA 46.8A					
must be eliminate (1) Looking the m (2) Measured at 7	ed. notor from the 1m and with to weight subject ocess.	cel the previous one, where the previous one, where the send. In the sender of the sen	hich		•		ts with sinusoidal stipulated in NEMA
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ID	Application	Туре	Quantity	Sensing ⁻	Temperature
1	Winding	Thermostat - 2 wires	1 x Phase		55 °C
I .	winding	memostat - 2 wires	I X FIIdSe	K	55 C
Devi			Dorforme a -l	Chaskad	Dete
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TORQUE AND CURRENT VS SPEED CURVE

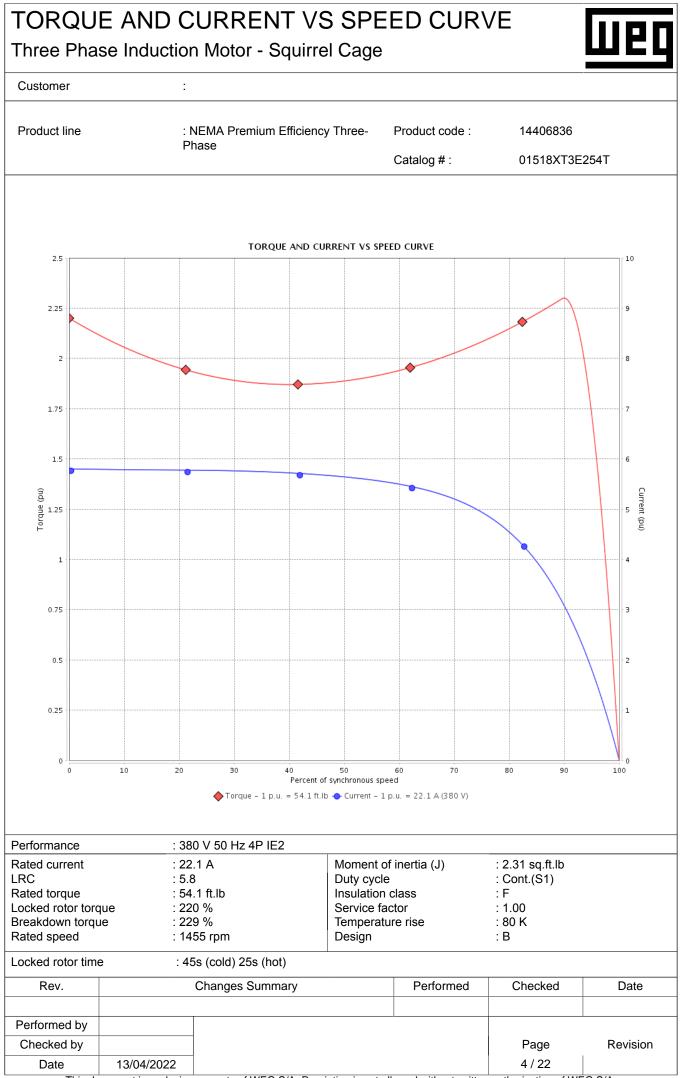
Three Phase Induction Motor - Squirrel Cage

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Product line		: NEMA Premium Efficiency Three- Phase		Product code :	14406836	
	Ph	ase		Catalog # :	01518XT3E	254T
3 1		TORQUE AND CUR	RENT VS SPE	EED CURVE		
2.7						9
2.4		•				8
2.4						0
2.1	•	•				7
1.8						6
(nd) en 1.5 or						Current (pu)
						E
1.2						4
0.9						3
0.6						2
0.3						1
0						
0	10 20		50 nchronous spe		80 90	100
		♦ Torque - 1 p.u. = 44.5 ft.lb	● Current – 1	p.u. = 18.4 A (460 V)		
erformance		0/460 V 60 Hz 4P				
Rated current RC Rated torque ocked rotor torque reakdown torque Rated speed	: 7.3 : 44. e : 300 : 300	5 ft.lb) %) %	Moment o Duty cycle Insulation Service fa Temperate Design	class actor	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
ocked rotor time	: 46	s (cold) 26s (hot)				
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TORQUE AND CURRENT VS SPEED CURVE

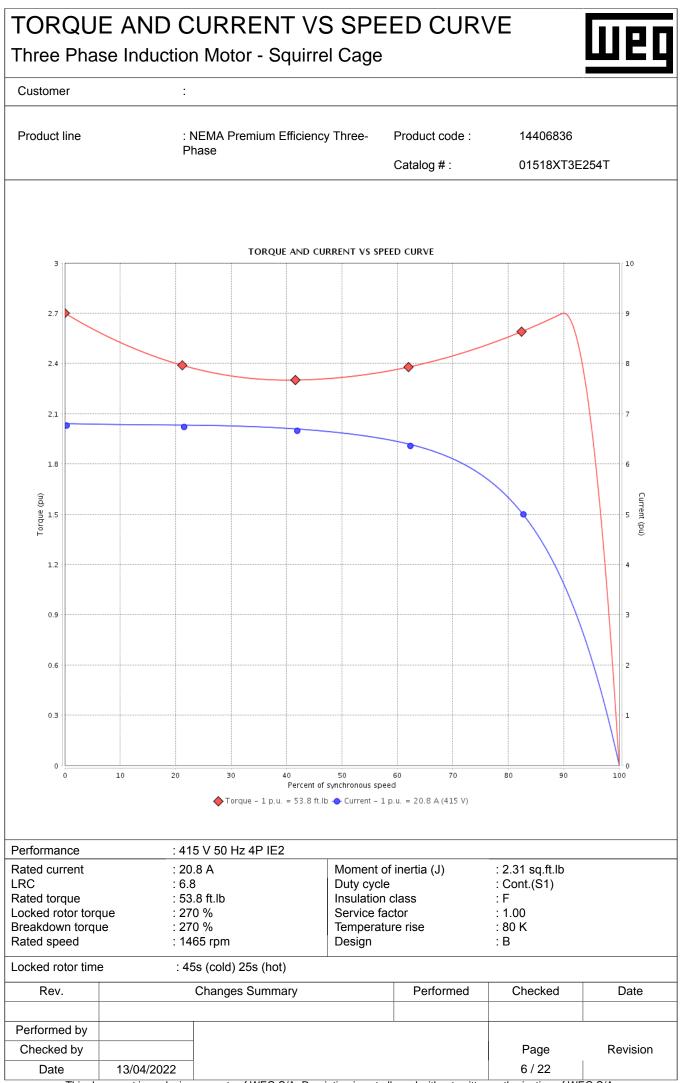
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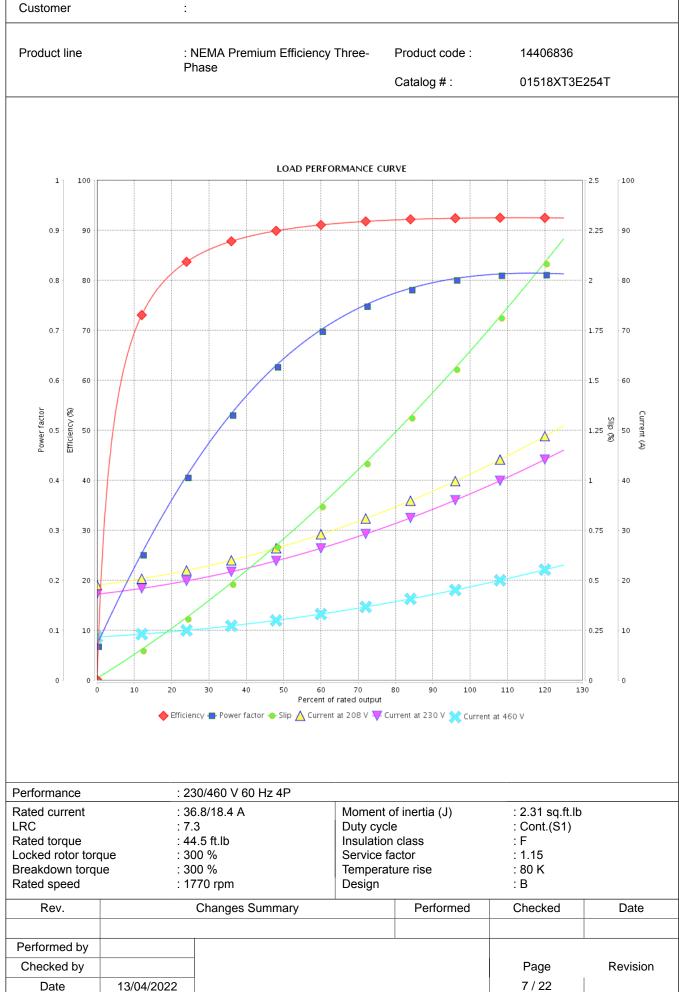
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Product line		MA Premium Efficiency Th	nree- I	Product code :	14406836	
	Pha	se	(Catalog # :	01518XT3E	254T
		TORQUE AND CURRE	NT VS SPEEI	D CURVE		
3						10
2.7						····· 9
2.4						8
	•					
2.1						7
1.8		•				6
(n d) an 1.5 o L						Current (pu)
1.2						4
0.9						3
0.6					\	2
0.3						
0.5						
0	10 20	30 40 50 Percent of synci		50 70	80 90	100
		◆ Torque - 1 p.u. = 54.0 ft.lb ◆	Current – 1 p.	u. = 21.3 A (400 V)		
erformance	: 400	V 50 Hz 4P IE2				
ated current RC ated torque ocked rotor torque reakdown torque	: 250 9	ft.lb In % S % Te	loment of i uty cycle isulation c ervice fact emperatur	lass tor	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
ated speed	: 1460 : 45s	(cold) 25s (hot)	esign		: B	
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Customer



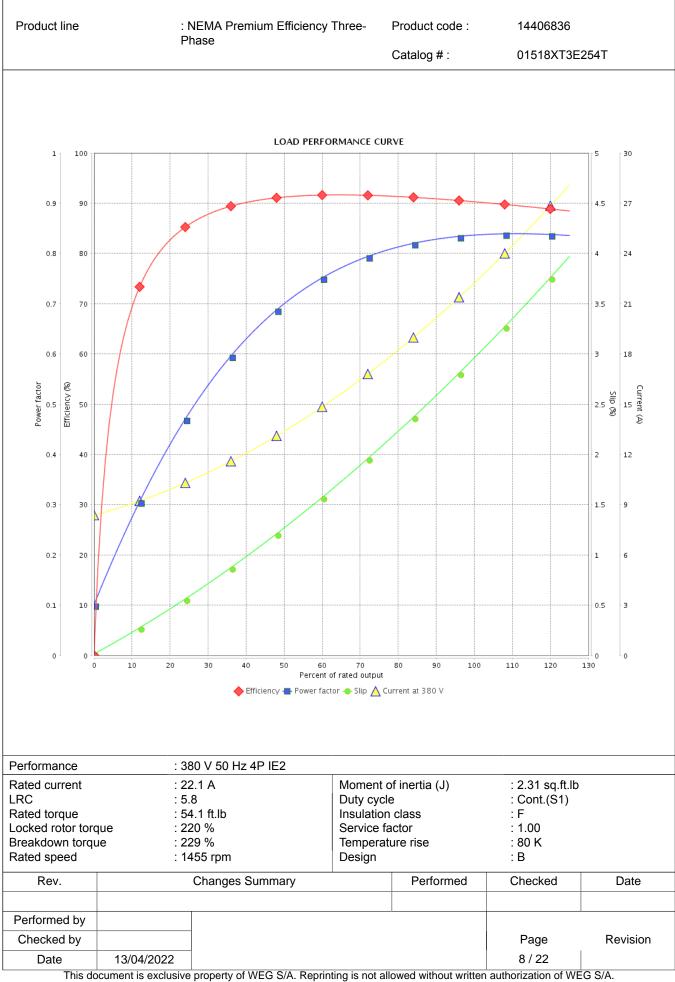
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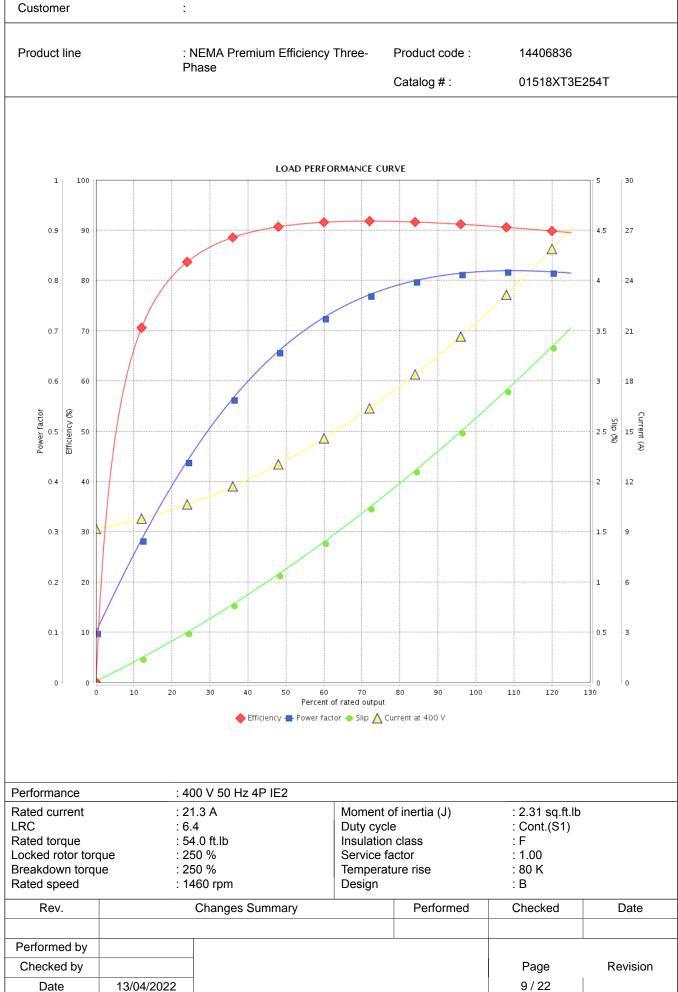


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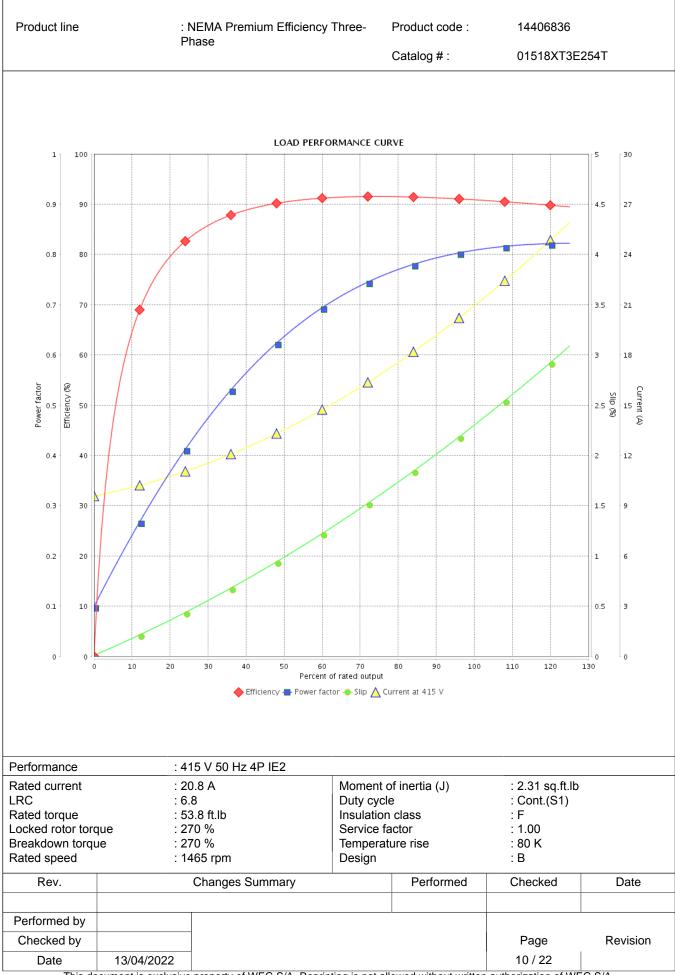
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Customer



THERMAL LIMIT CURVE

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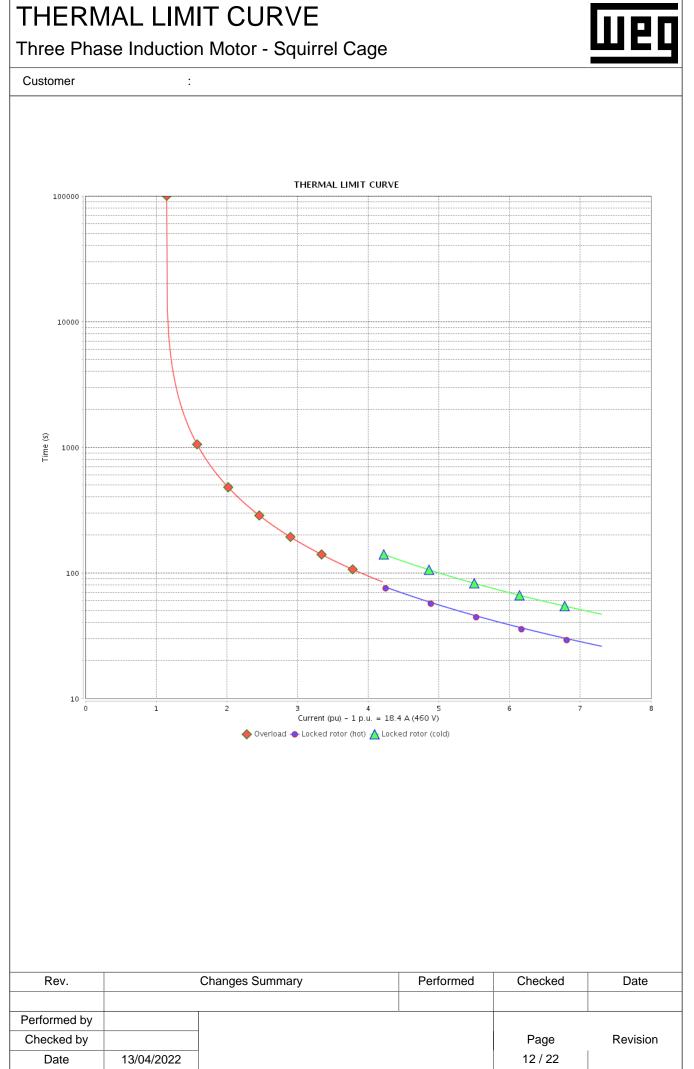
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14406836
	Phase	Catalog # :	01518XT3E254T

Шед

Performance	: 23	30/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	100 - 100 -	6.8/18.4 AMoment of ine.3Duty cycle4.5 ft.lbInsulation class00 %Service factor00 %Temperature in770 rpmDesign		class ctor	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant							
Cooling constant							
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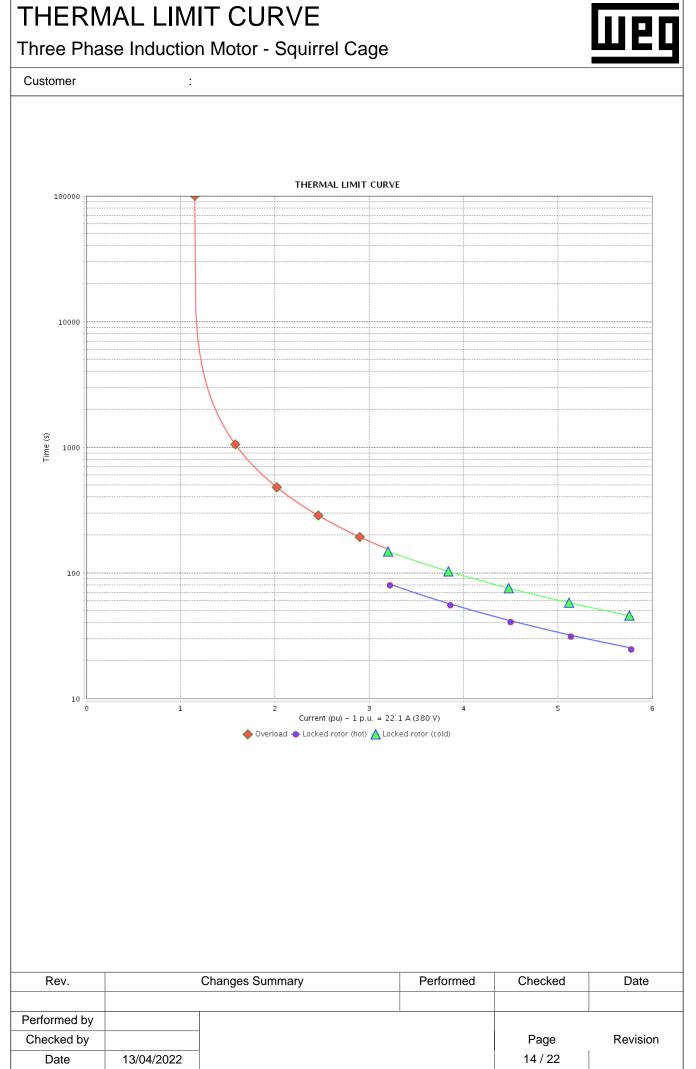
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14406836
	Phase	Catalog # :	01518XT3E254T

Шед

Performance	: 38	380 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 53. : 54 jue : 22 ie : 22	P.1 AMoment of inertia (J)BDuty cycleJ. 1 ft.lbInsulation class20 %Service factor29 %Temperature rise255 rpmDesign		class ctor	: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant	1						
Cooling constant							
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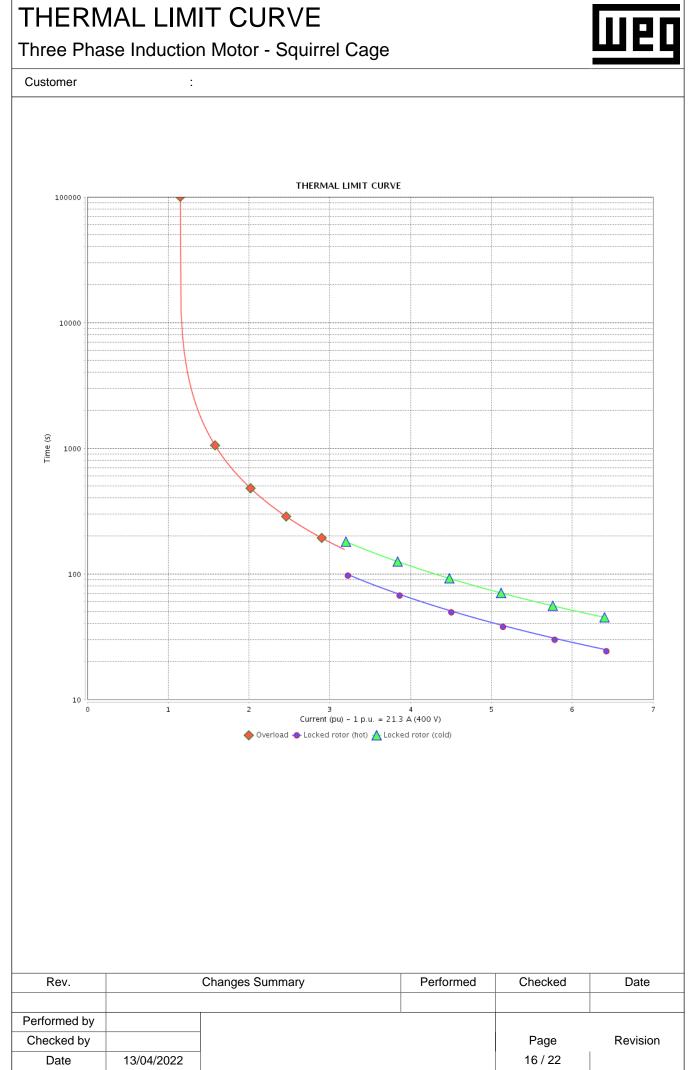
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14406836
	Phase	Catalog # :	01518XT3E254T

Шед

Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		: 21.3 A : 6.4 : 54.0 ft.lb : 250 % : 250 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14406836
	Phase	Catalog # :	01518XT3E254T

Шед

Performance	: 47	415 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6. : 53 jue : 27 ie : 22	.8 AMoment of inertia (J).8 ADuty cycle.8 ft.lbInsulation class0 %Service factor0 %Temperature rise65 rpmDesign		: 2.31 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Heating constant	I						
Cooling constant							
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