DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

		: NEMA Premium Effi	ciency I	hree- Prod	uct code :	144074	417
		Phase		Catal	log # :	005092	XT3E254T
Insulation class Duty cycle Ambient temperature Altitude		: 254T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55		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 : 322 lb : 3.41 sq.ft.lb	
Design		: B	n			•	
Output [HP] Poles		5		5 8	5		<u> </u>
Frequency [Hz]		60		50	5		50
Rated voltage [V]		230/460		380	40		415
Rated current [A]		15.9/7.93		9.17	8.9		8.73
. R. Amperes [A]		84.0/42.0		48.6	47		46.3
_RC [A]		5.3x(Code H)	5.3	Bx(Code H)	5.3x(C		5.3x(Code H)
No load current [A	1	11.0/5.50	0.0	5.44	5.7		6.03
Rated speed [RPN		880		720	72		730
Slip [%]	1	2.22		4.00	3.3		2.67
Rated torque [ft.lb	1	29.8		36.5	36		36.0
Locked rotor torqu		210		160	18		200
Breakdown torque		270		200	22		250
Service factor	6113	1.15		1.00	1.0		1.00
Temperature rise		80 K			80 K		80 K
_ocked rotor time		37s (cold) 21s (hot)	37s (c	80 K cold) 21s (hot)	37s (cold)		37s (cold) 21s (hot)
Noise level ²		55.0 dB(A)	53.0 dB(A)		53.0 0		53.0 dB(A)
	25%	82.8			80.9		81.0
Efficiency (%)	50%	84.0		82.5	82	.5	82.5
	75%	86.5		84.0	84	.0	84.0
	100%	87.5		84.0	85		85.5
	25%	0.25		0.30	0.2		0.26
Dowor Costor	50%	0.46		0.53	0.5	50	0.47
Power Factor	75%	0.58		0.65	0.6	62	0.60
	100%	0.67		0.73	0.7	70	0.69
Drive end Bearing typeNon drive 6309 C3Sealing:Oil SealLip SLubrication interval:20000 h2000			09 C3 o Seal 000 h 9 g	Max. traction : 270 lb			
Lubricant type		: Mobil Polyrex E	ΞM				
Lubricant type Notes USABLE @208V	′ 17.5A SF 1.	· · · · · · · · · · · · · · · · · · ·	ΞΜ				
Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1	aces and car ed. lotor from the Im and with t weight subject ocess.	15 SFA 20.2A			•		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. lotor from the Im and with t weight subject ocess.	15 SFA 20.2A ncel the previous one, while 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. lotor from the Im and with t weight subject ocess.	15 SFA 20.2A ncel the previous one, where the previous one, where the previous one, where the previous one, where the previous of +3dB(A).	hich	power supply, MG-1.	subject to th	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. lotor from the Im and with t weight subject ocess.	15 SFA 20.2A ncel the previous one, where the previous one, where the previous one, where the previous one, where the previous of +3dB(A).	hich	power supply, MG-1.	subject to th	e tolerances Checke	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. lotor from the Im and with t weight subject ocess.	15 SFA 20.2A Incel the previous one, white shaft end. olerance of +3dB(A). It to changes after Changes Summary	hich	power supply, MG-1.	subject to th	e tolerances	stipulated in NEMA

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Customer

ID	Application	Туре	Quantity	Sensing 1	Femperature
1	Winding	Thermostat - 2 wires	1 x Phase		55 °C
1	winding	memostat - 2 wires	I X FIIdSe		55 C
Pov	Char		Performed	Checked	Dete
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erformed by hecked by				Page	Revision

TORQUE AND CURRENT VS SPEED CURVE

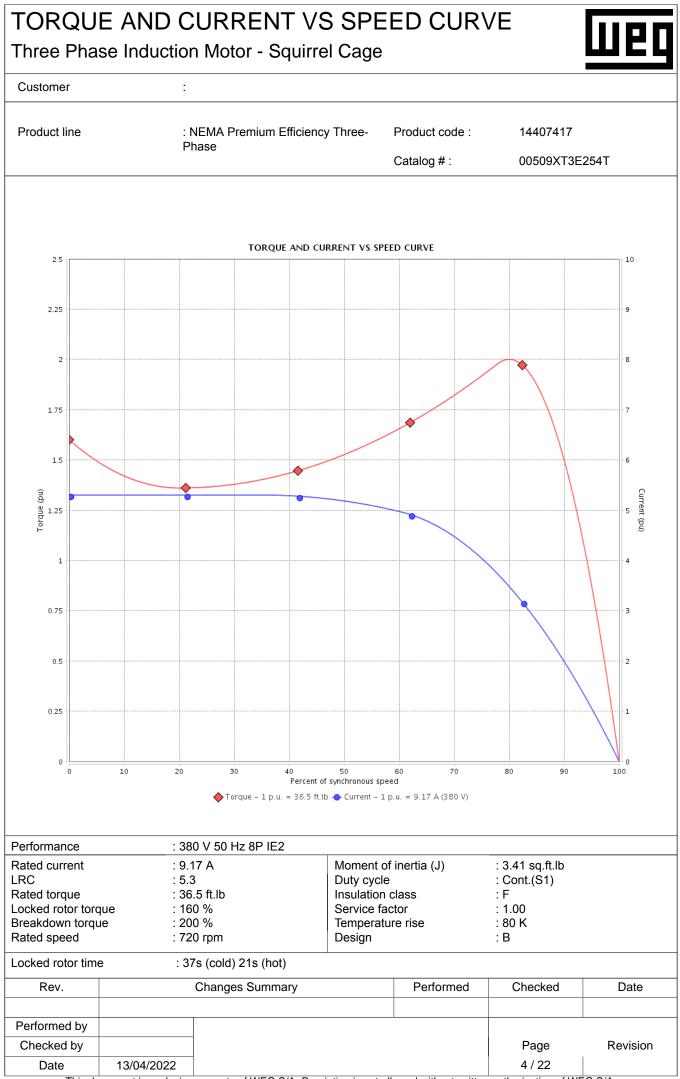
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: NEMA Premium Efficiency Three- Phase		ct code :	14407417	
	Phas	e	Catalo	g # :	00509XT3E	254T
3		TORQUE AND CURRENT	VS SPEED CURV	Έ		10
2.7					•	9
2.4						8
2.1						7
	•					
1.8						6
înd b	•					Curr
nd) an 1.5 Duo L			•	< _		Current (pu)
						Ŭ
1.2						4
0.9						3
0.6						2
0.3						1
0 1	0 20	30 40 50 Percent of synchro	60 nous speed	70	80 90	100
		◆ Torque - 1 p.u. = 29.8 ft.lb ◆ Cu		3 A (460 V)		
erformance	. 220/4	60 V 60 Hz 8P			_	
ated current	: 15.9/7	7.93 A Mor	ment of inertia	(J)	: 3.41 sq.ft.lb	
RC ated torque	: 5.3 : 29.8 f		y cycle Jation class		: Cont.(S1) : F	
ocked rotor torque	: 210 %	6 Ser	vice factor		: 1.15	
reakdown torque ated speed	: 270 % : 880 rj		nperature rise sign		: 80 K : B	
ocked rotor time	: 37s (cold) 21s (hot)				
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Checked by					Page	Revision
-	3/04/2022				3/22	



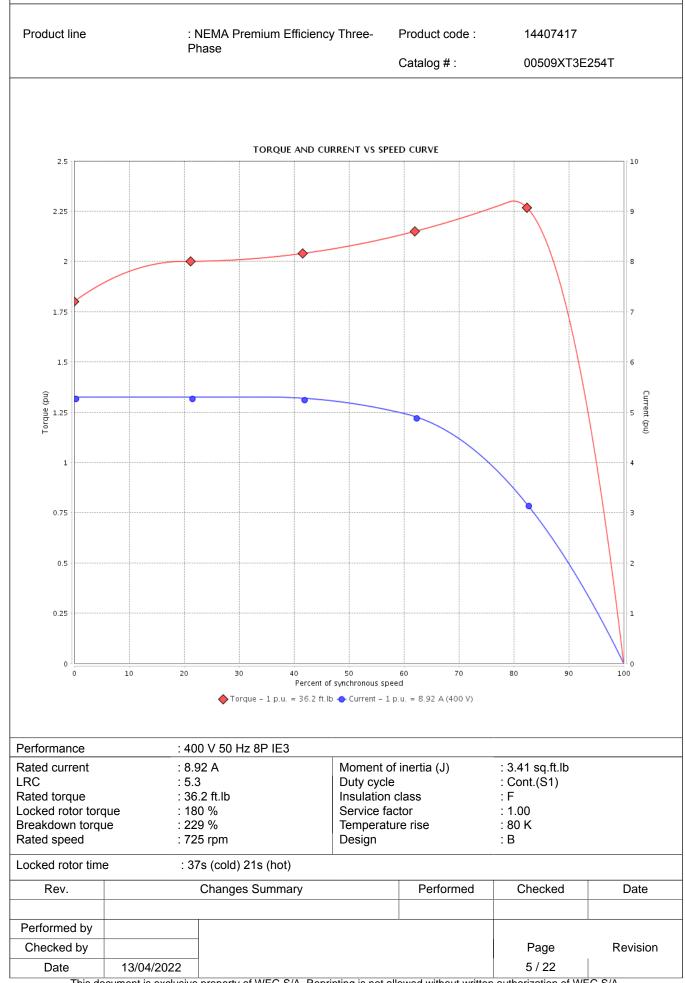
TORQUE AND CURRENT VS SPEED CURVE

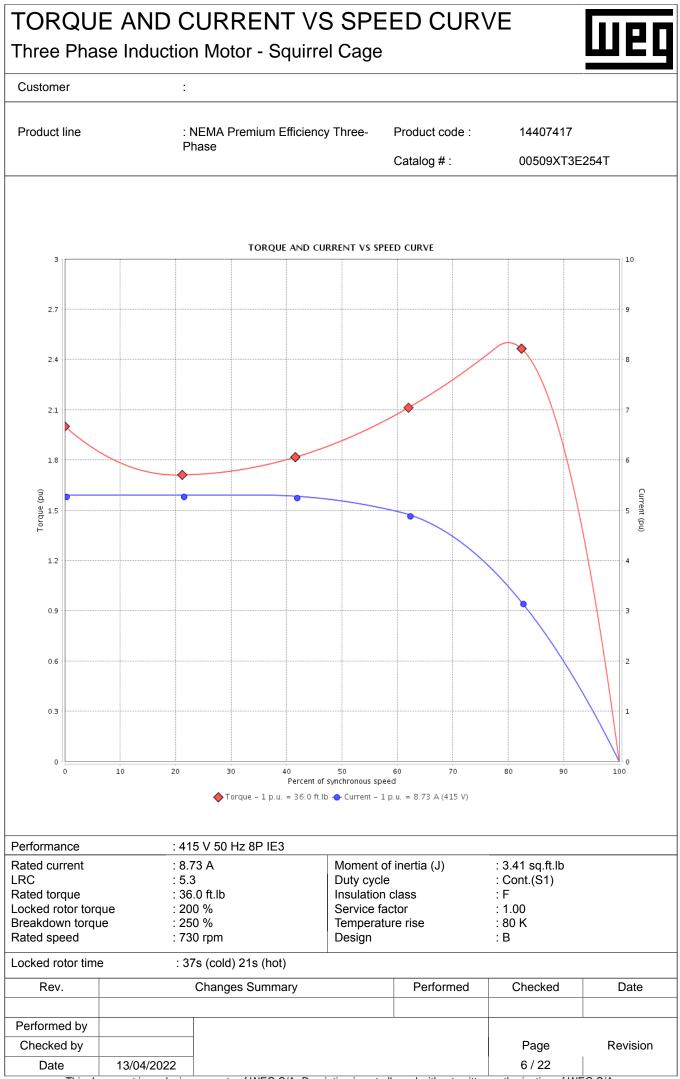
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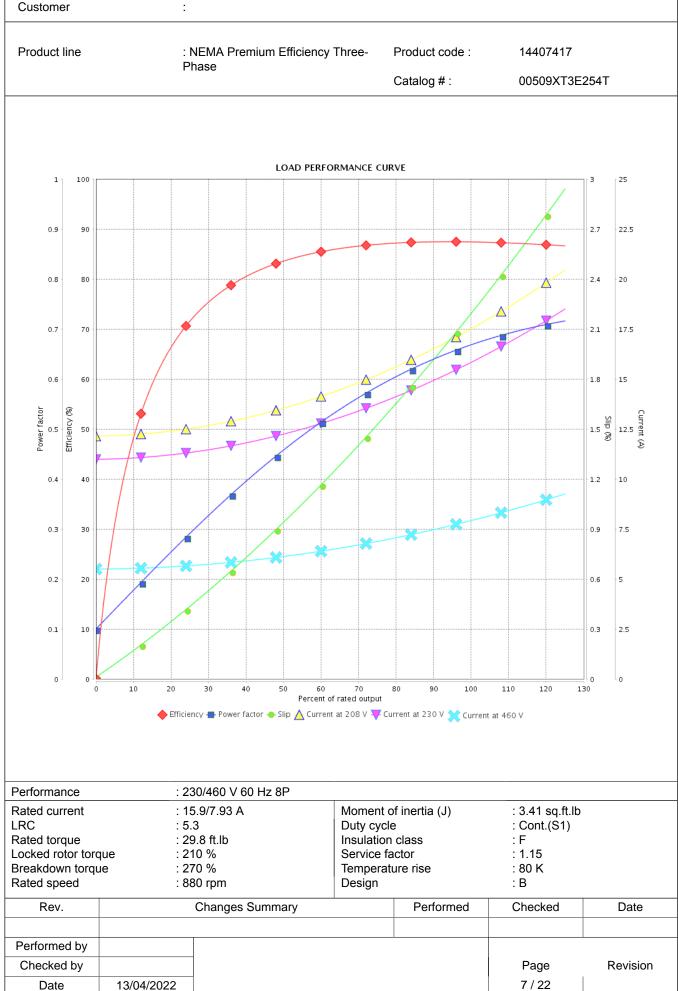
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Three Phase Induction Motor - Squirrel Cage

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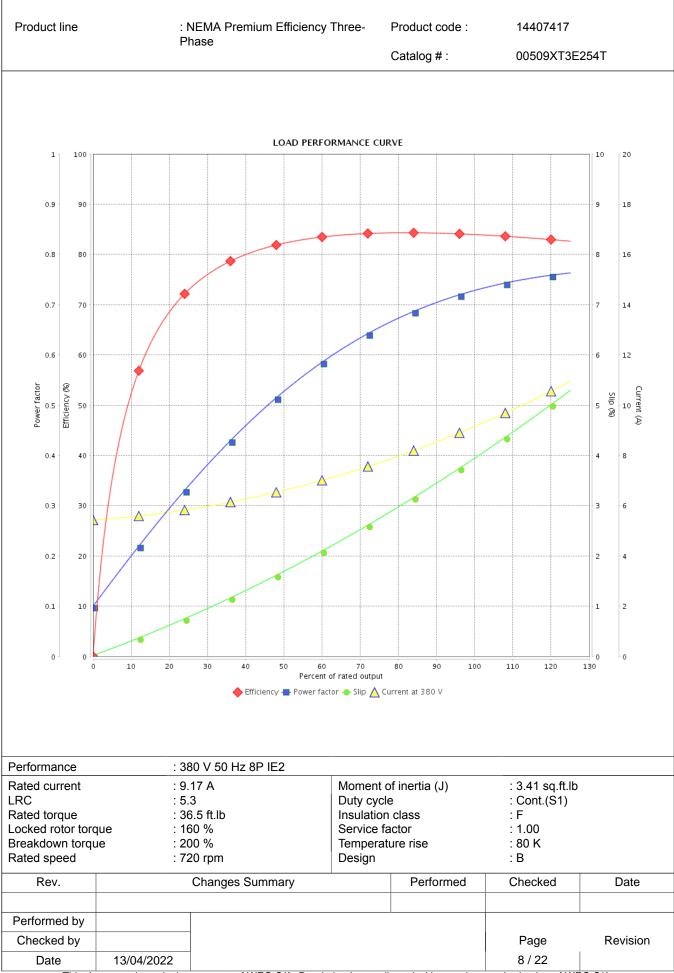
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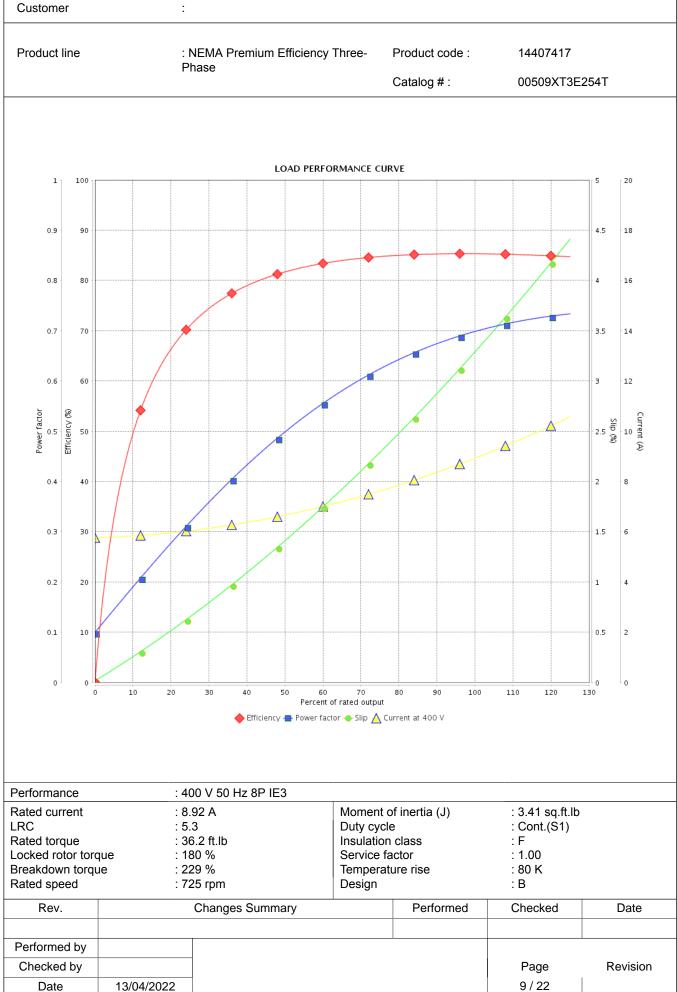


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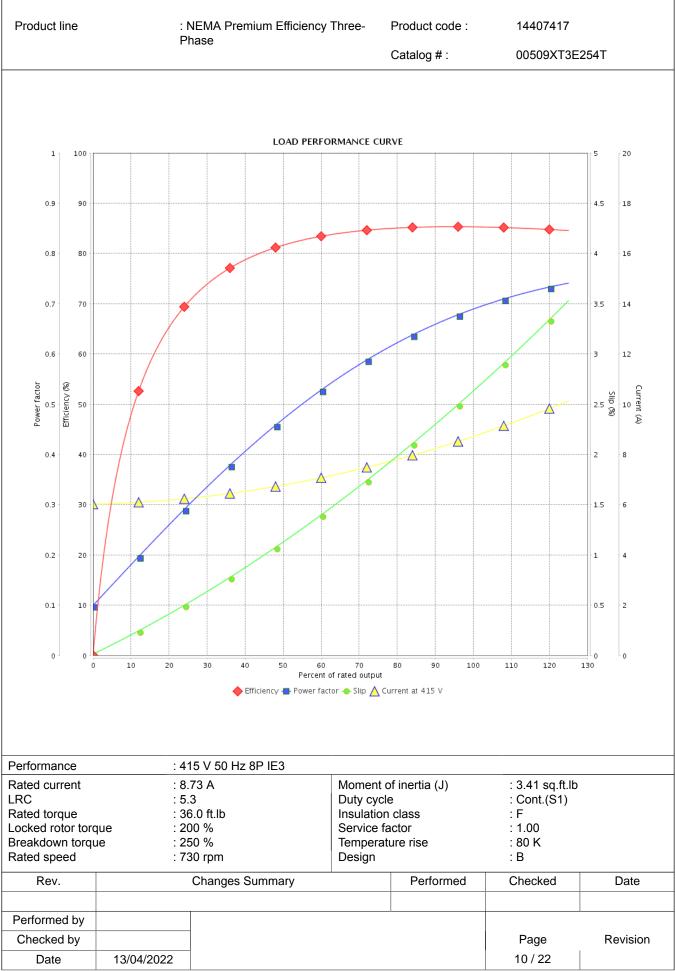
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Customer



THERMAL LIMIT CURVE

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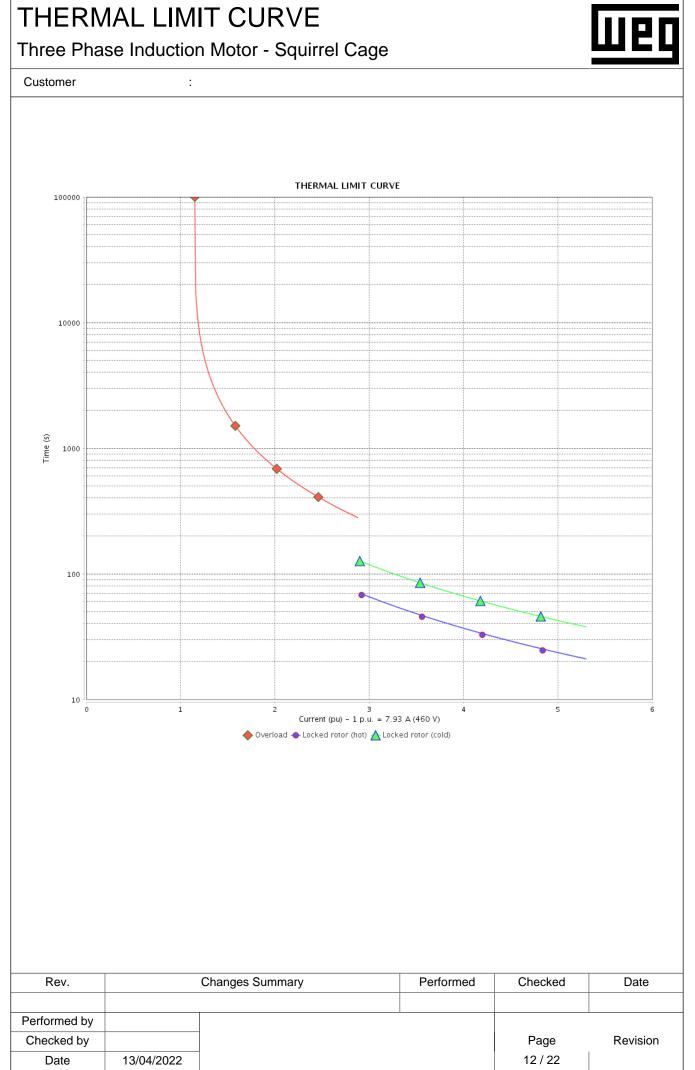
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407417
	Phase	Catalog # :	00509XT3E254T

Шед

Performance		230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	ie : 2	15.9/7.93 A 5.3 29.8 ft.lb 210 % 270 % 880 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.41 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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Checked by					Page	Revision
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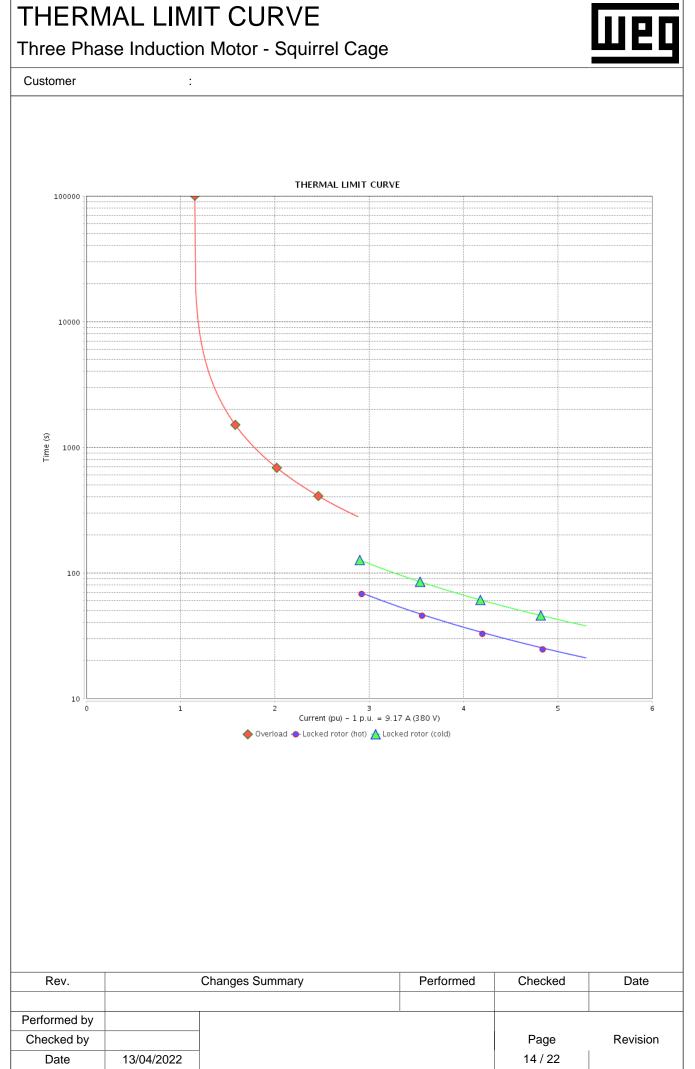
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407417
	Phase	Catalog # :	00509XT3E254T

Шед

Performance	: 38	380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5. : 36 jue : 16 ie : 20	17 A .3 6.5 ft.lb 60 % 00 % 20 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.41 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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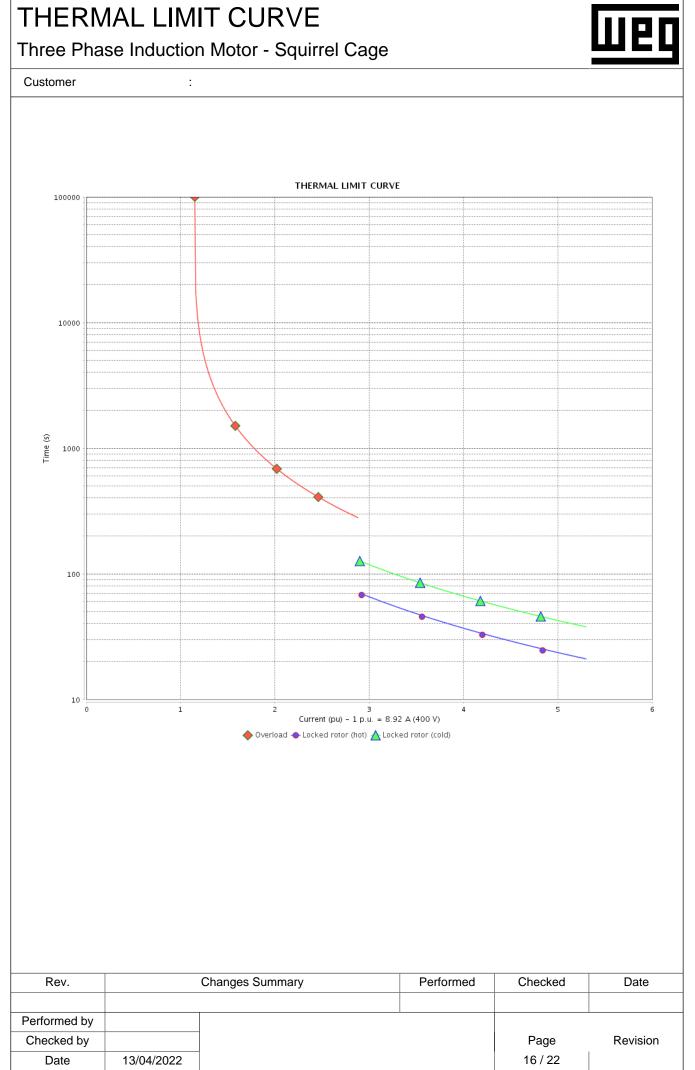
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407417
	Phase	Catalog # :	00509XT3E254T

Шед

Performance		: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	8.92 A 5.3 36.2 ft.lb 180 % 229 % 725 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.41 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary	·	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407417
	Phase	Catalog # :	00509XT3E254T

Шеq

Performance	: 4	415 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	jue : 2	3.73 A 5.3 36.0 ft.lb 200 % 250 % 730 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.41 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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