DATA SHEET

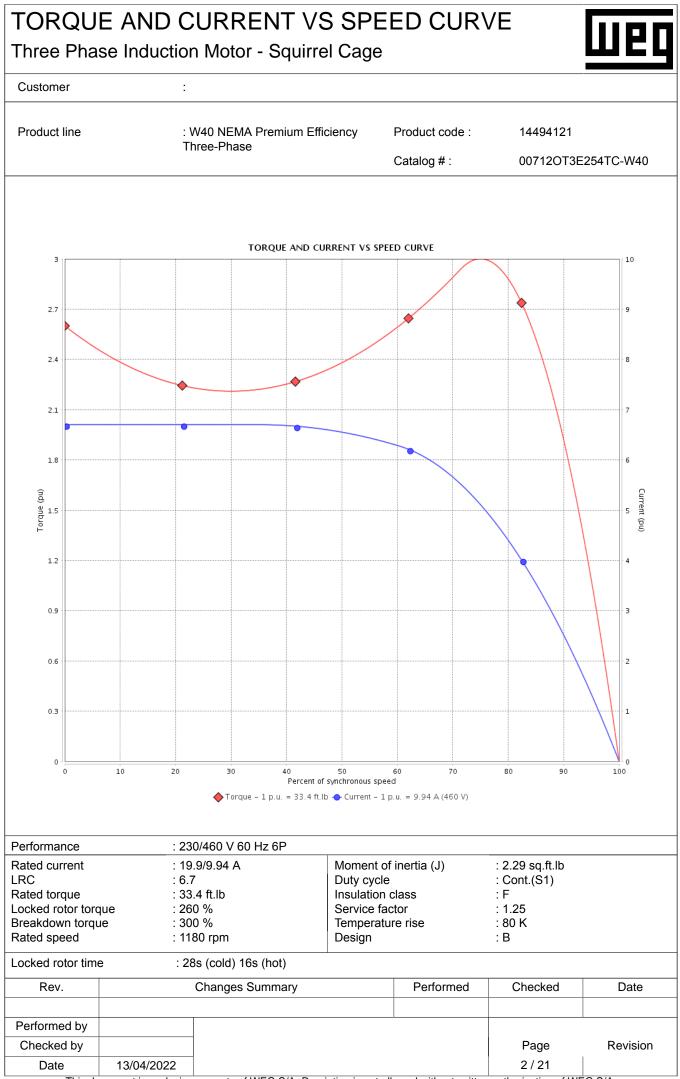
Three Phase Induction Motor - Squirrel Cage

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Customer

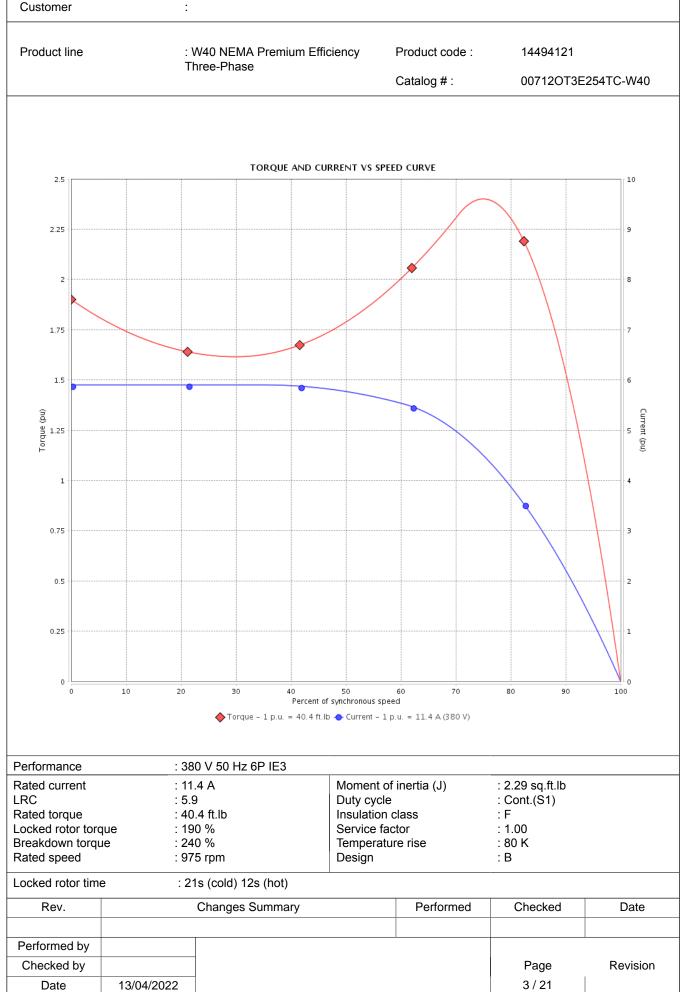
Product line		: W40 NEMA Premiun Three-Phase	n Efficie	ncy Prod	luct code :	1449412	21
		Thee-Fhase		Cata	llog # :	007120	T3E254TC-W40
Frame		: 254TC		Cooling met	hod	: IC01 -	ODP
Insulation class		: F		Mounting		: F-1	
Duty cycle		: Cont.(S1)		Rotation ¹			CW and CCW)
Ambient tempera	ature	: -20°C to +40°C		Starting met		: Direct (On Line
Altitude		: 1000 m.a.s.l.		Approx. weig		: 247 lb	
Protection degre Design	e	: IP23 : B		Moment of in	nertia (J)	: 2.29 sc	Į.ft.lb
Dutput [HP]		7.5		7.5	7.5	5	7.5
Poles		6		6	6		6
requency [Hz]		60		50	50		50
Rated voltage [V]		230/460		380	400)	415
Rated current [A]		19.9/9.94		11.4	11.1	1	11.0
R. Amperes [A]		133/66.6		67.3	71.0		74.8
RC [A]		6.7x(Code H)	5.9	(Code G)	6.4x(Co		6.8x(Code J)
lo load current [A	1	10.8/5.40	0.0	5.30	5.80		6.10
Rated speed [RPN		1180		975	975		980
Slip [%]	••1	1.67		2.50	2.50		2.00
Rated torque [ft.lb	1	33.4		40.4	40.4		40.2
		260		190	210		229
ocked rotor torqu Breakdown torque							
	;[70]	300		240	260		290
Service factor		1.25		1.00	1.00		1.00
emperature rise		80 K	0.1	80 K	80		80 K
ocked rotor time loise level ²		28s (cold) 16s (hot) 59.0 dB(A)	21s (d	cold) 12s (hot)	21s (cold) 7	12s (hot)	19s (cold) 11s (hot)
	25%	86.6		87.4	87.	7	87.1
	50%	87.5		87.6	87.9	9	87.3
Efficiency (%)	75%	89.5		88.0	88.0		88.0
	100%	90.2		88.0	88.0		88.0
	25%	0.34		0.40	0.30		0.33
	50%	0.58		0.65	0.6		0.58
Power Factor	75%	0.30		0.00	0.0		0.71
	100%	0.70		0.83	0.7		0.79
	100 /0			1		1	0.79
D			ive end	Foundation lo			
Bearing type			9 Z C3	Max. traction			
Sealing		: Without Wi		Max. compre	ssion		
			ng Seal				
Lubrication interv			000 h				
Lubricant amour	nt		9 g				
Lubricant type		: Mobil Polyrex E	EM				
Notes USABLE @208V	′ 22.0A SF 1.	15 SFA 25.3A					
must be eliminate (1) Looking the m	ed. notor from the 1m and with t weight subjec	ncel the previous one, where shaft end. tolerance of +3dB(A). tot to changes after	nich				s with sinusoidal tipulated in NEMA
(3) Approximate v							
	ll load.						
3) Approximate v manufacturing pro	ll load.	Changes Summary		F	Performed	Checked	Date
 (3) Approximate with the second second	ll load.	Changes Summary		F	Performed	Checked	Date
 Approximate v manufacturing pre- (4) At 100% of ful Rev. Performed by 	ll load.	Changes Summary		F	Performed		
(3) Approximate v manufacturing pro (4) At 100% of ful Rev.	II load.			F	Performed	Checked Page 1 / 21	Revision



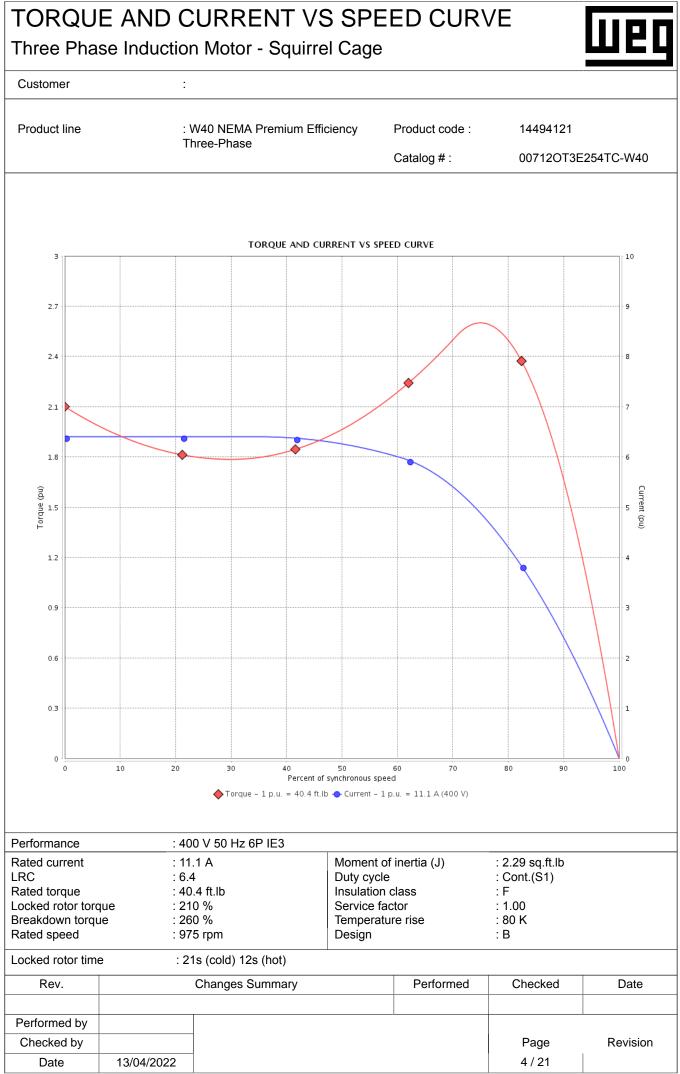
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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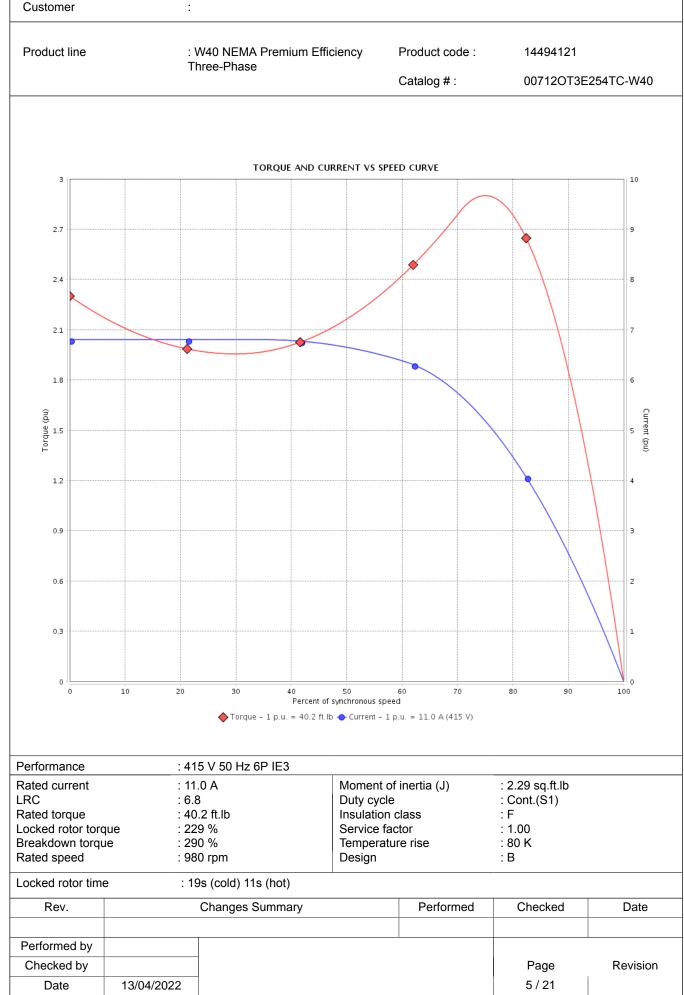


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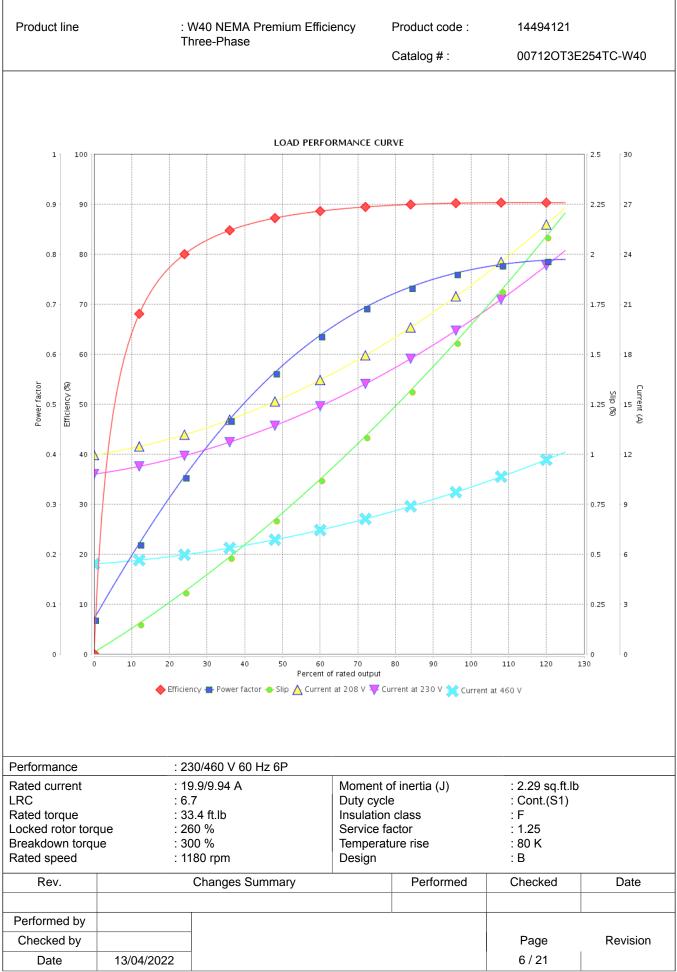
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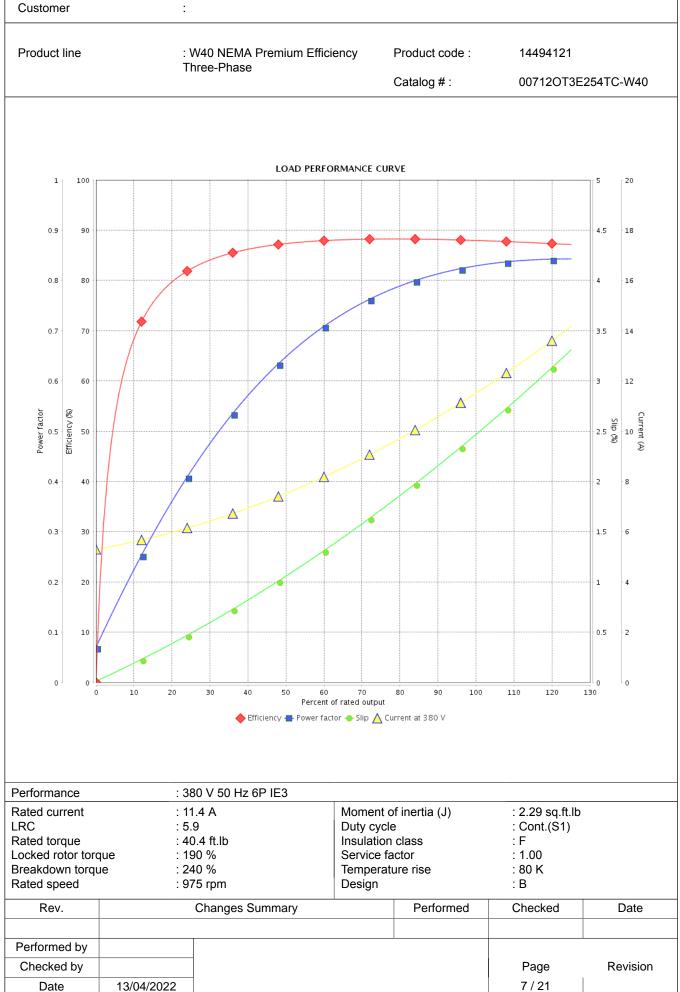


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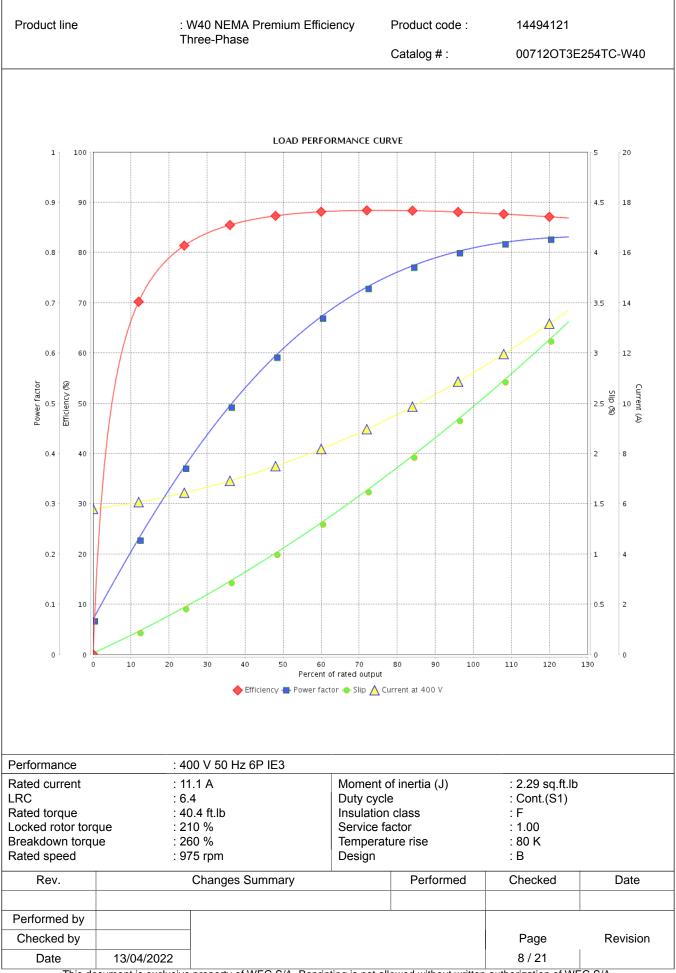
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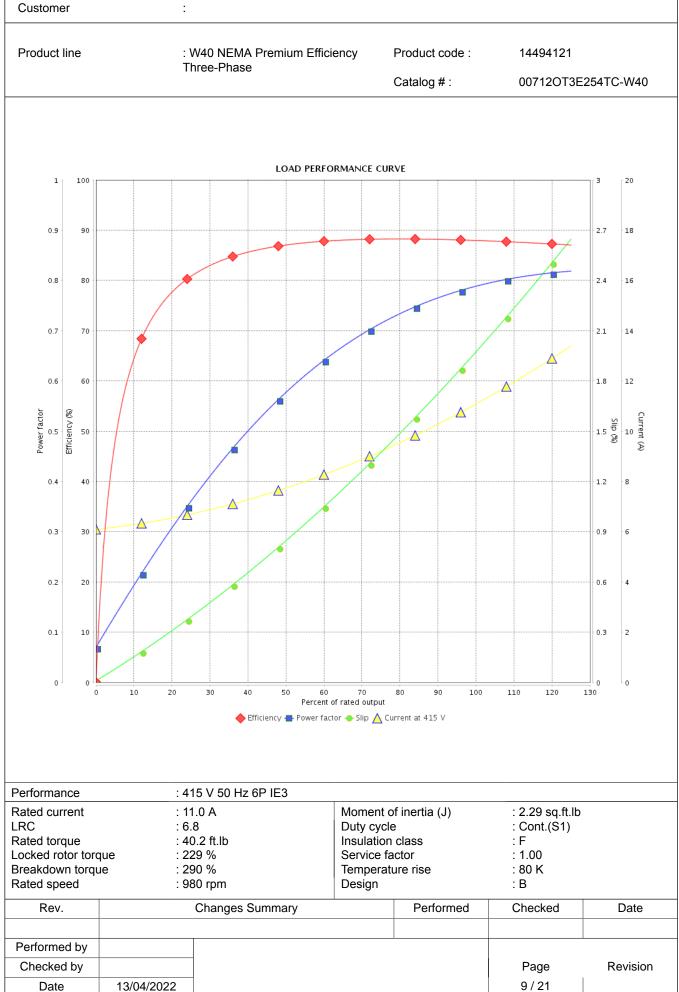


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THERMAL LIMIT CURVE

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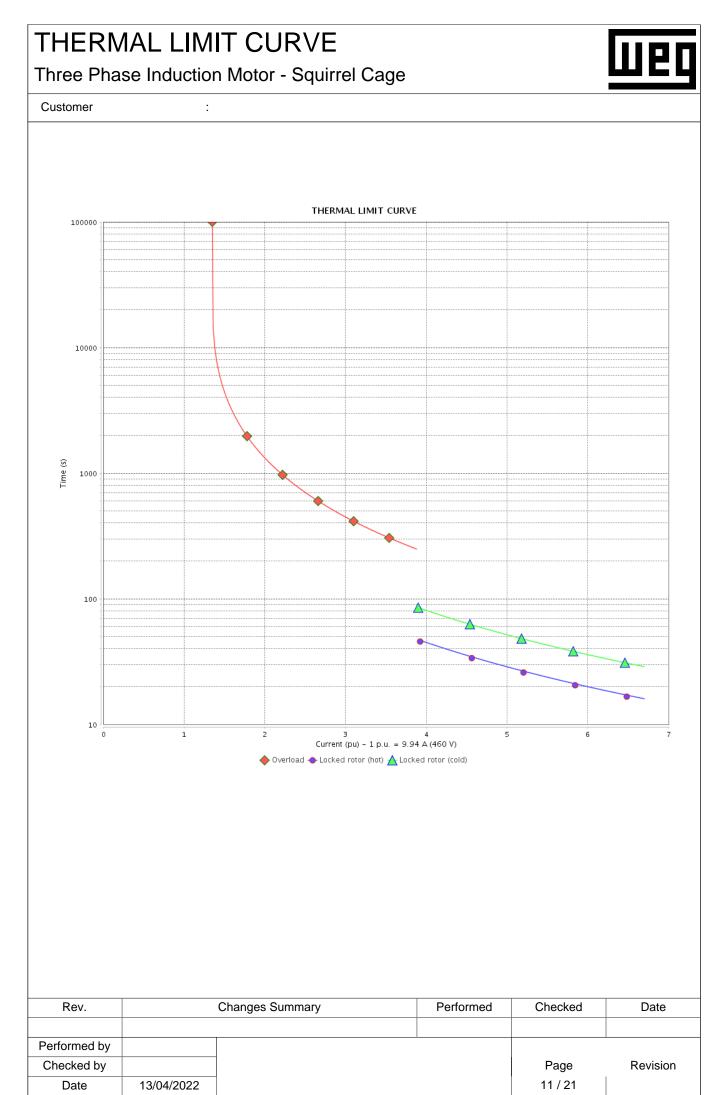
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Customer

Product line		: W40 NEMA Premium Efficie	ency Product code :		14494121	
		Three-Phase		Catalog # :	00712OT3E	254TC-W40
Performance		: 230/460 V 60 Hz 6P				
Rated current LRC		: 19.9/9.94 A : 6.7	Moment o Duty cycle	f inertia (J) e	: 2.29 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		: 33.4 ft.lb : 260 %	Insulation Service fa	class	: F : 1.25	
Breakdown torqu Rated speed	le	: 300 %	Temperati		: 80 K : B	
Heating constant		: 1180 rpm	Design		. U	
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date

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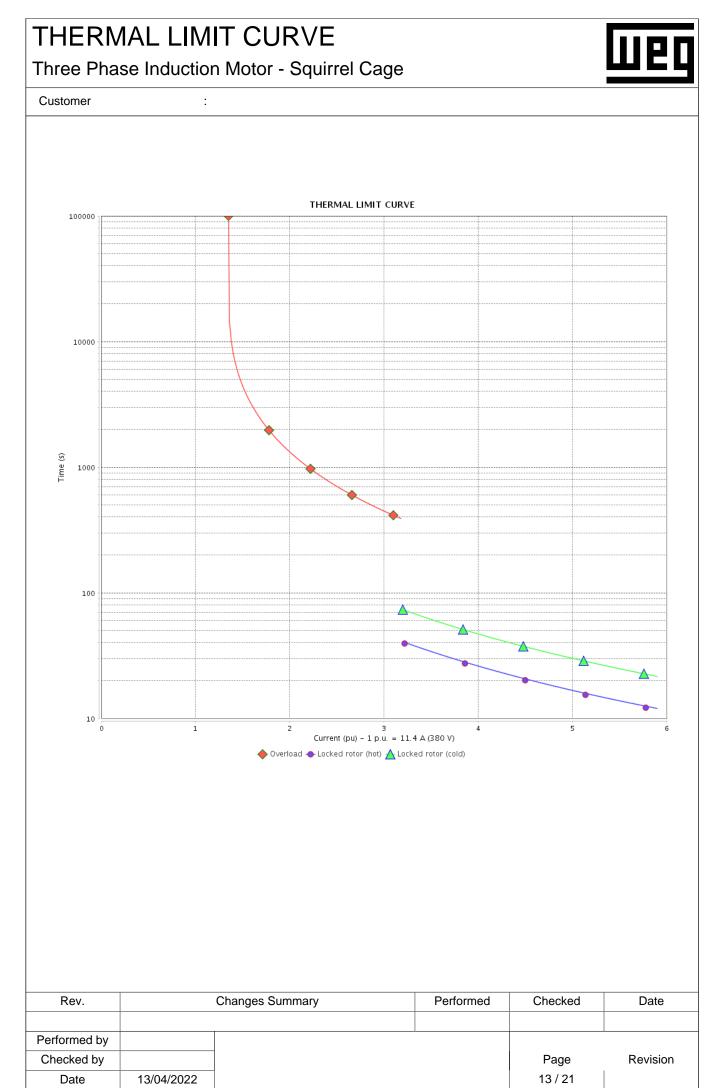
Product line	: ` T	W40 NEMA Premium Efficie hree-Phase	ency	Product code :	14494121	
				Catalog # :	00712OT3E	254TC-W40
Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 1	1.4 A	Moment o	f inertia (J)	: 2.29 sq.ft.lb	
LRC Rated torque	: 5 · 4	.9 0.4 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torc	que : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torqu	.e : 2	40 %	Temperatu		: 80 K	
Rated speed	: 9	75 rpm	Design		: B	
Heating constant						
Cooling constant	t 					_
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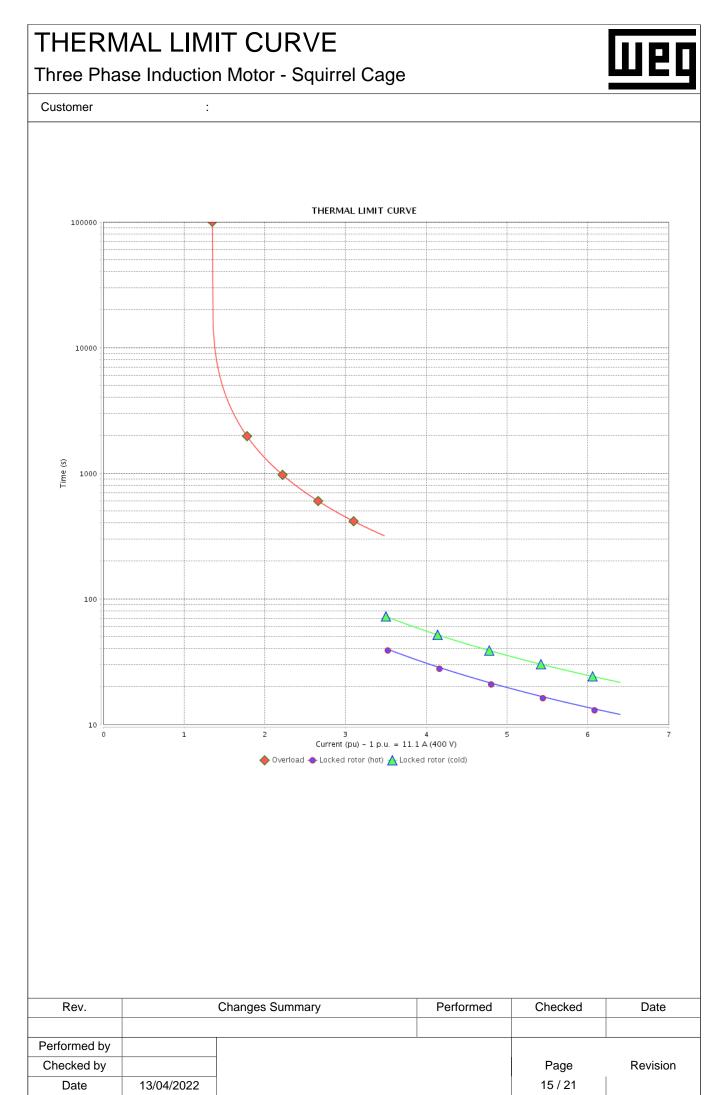
Customer

Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14494121 00712OT3E	254TC-W40
					00712013E	23410-7740
Performance		400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constant	ine :	11.1 A 6.4 40.4 ft.lb 210 % 260 % 975 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.29 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant						
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THERMAL LIMIT CURVE

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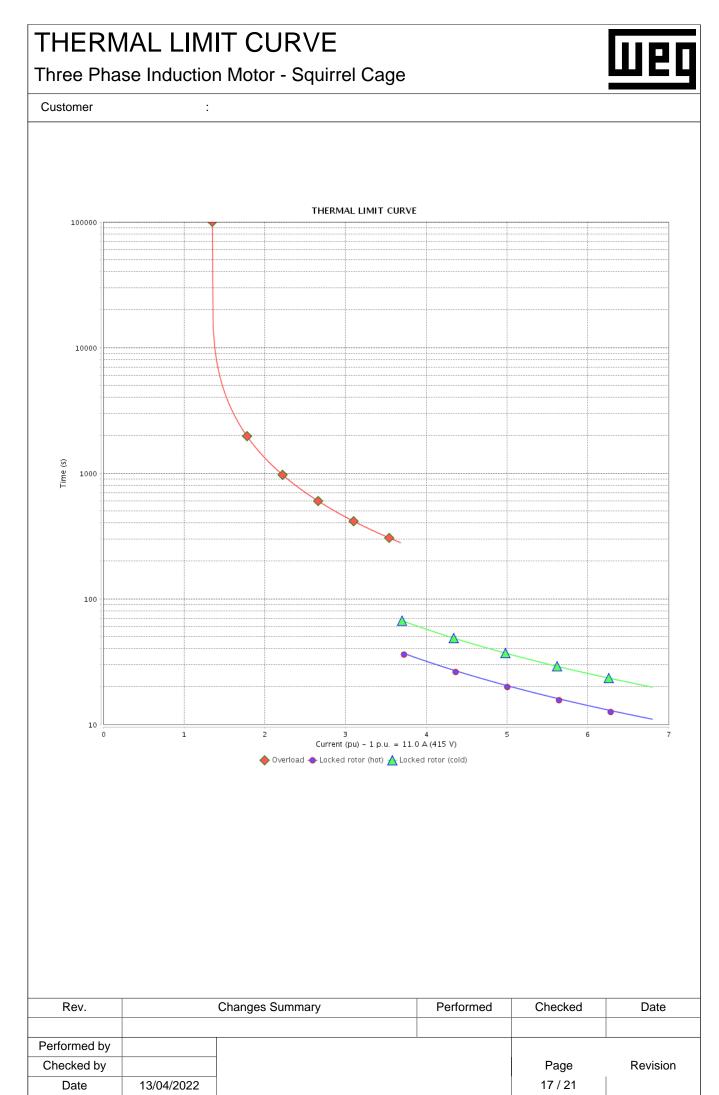
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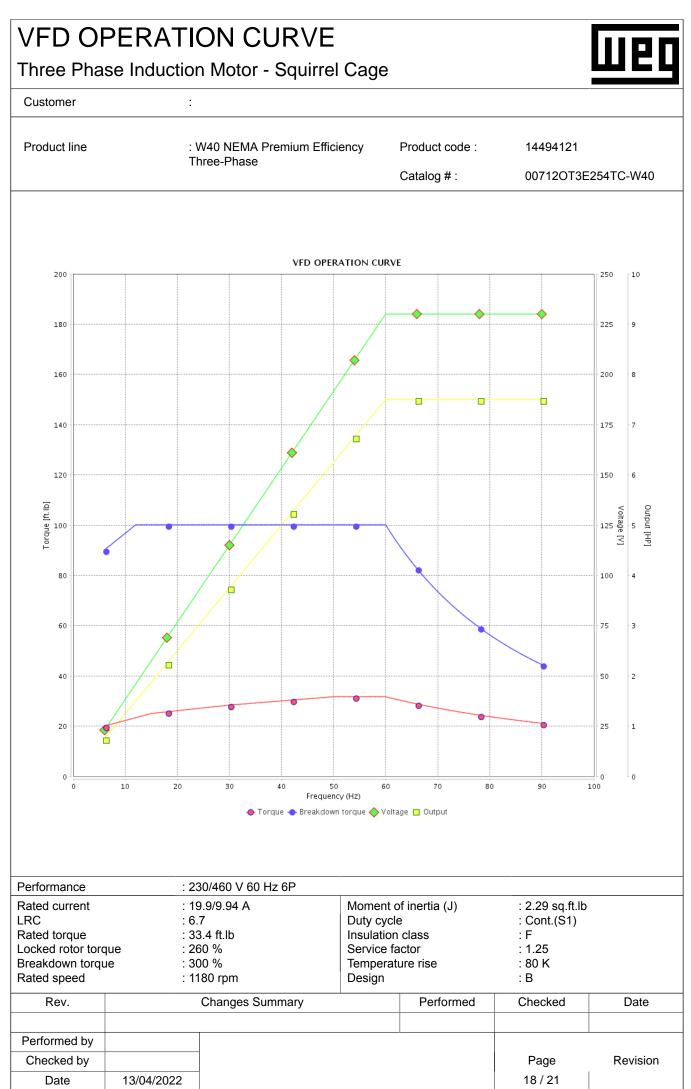
Product line		: W40 NEMA Premium Efficio Three-Phase	ency	Product code :	14494121	
				Catalog # :	00712OT3E	254TC-W40
Performance		415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	i que i Je i	11.0 A 6.8 40.2 ft.lb 229 % 290 % 980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.29 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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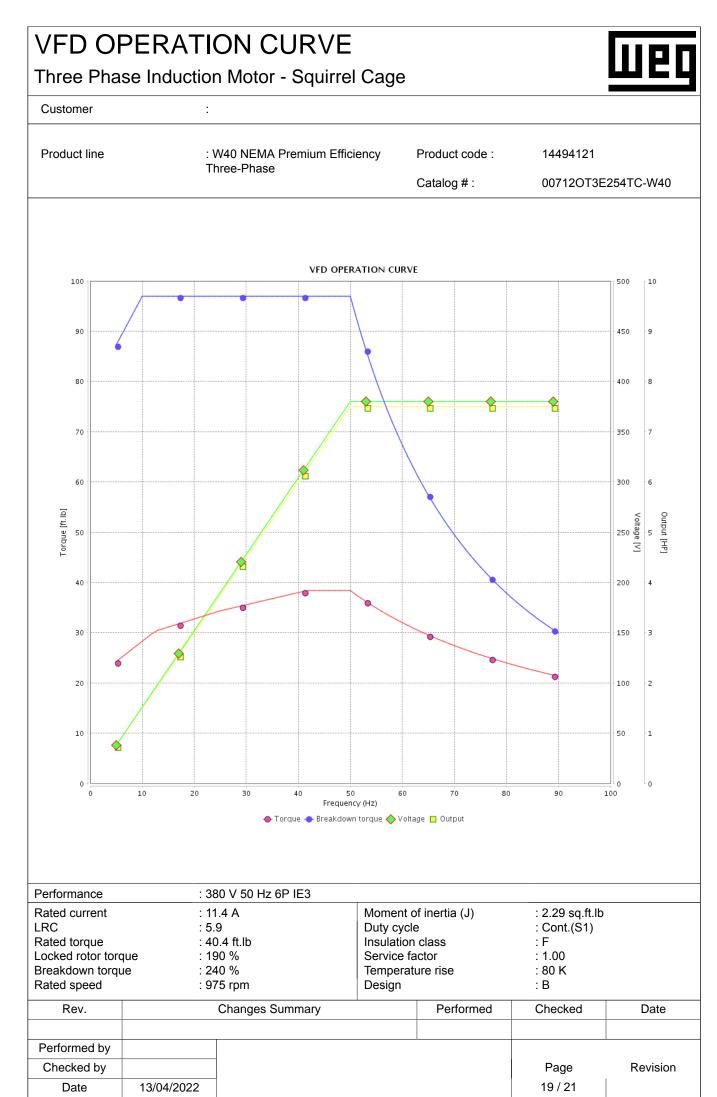
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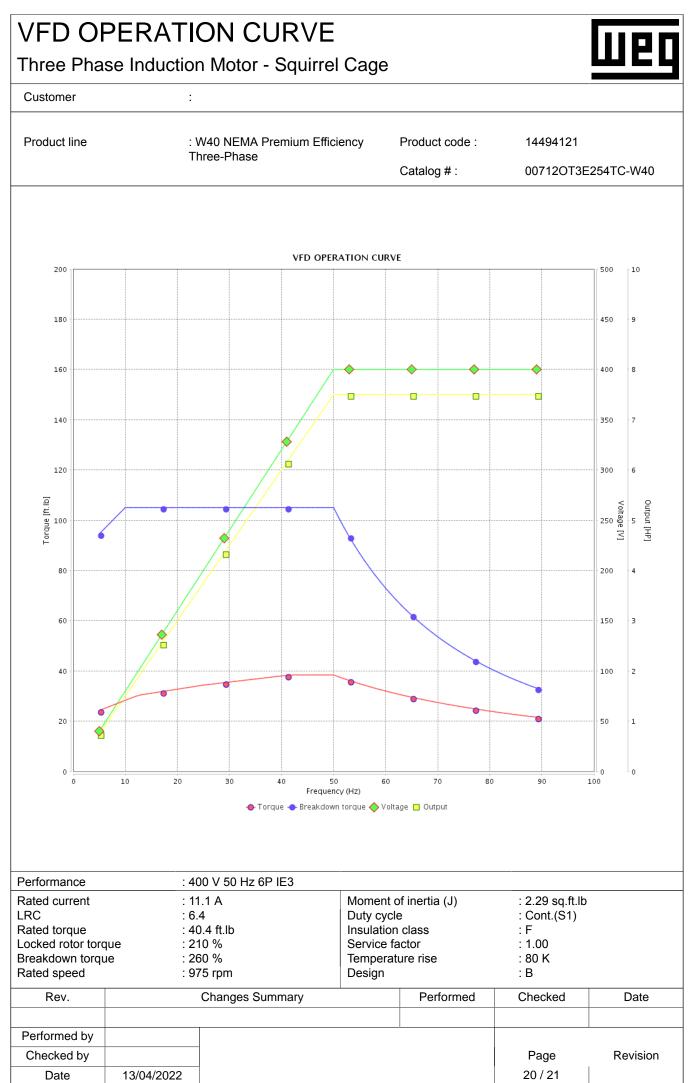
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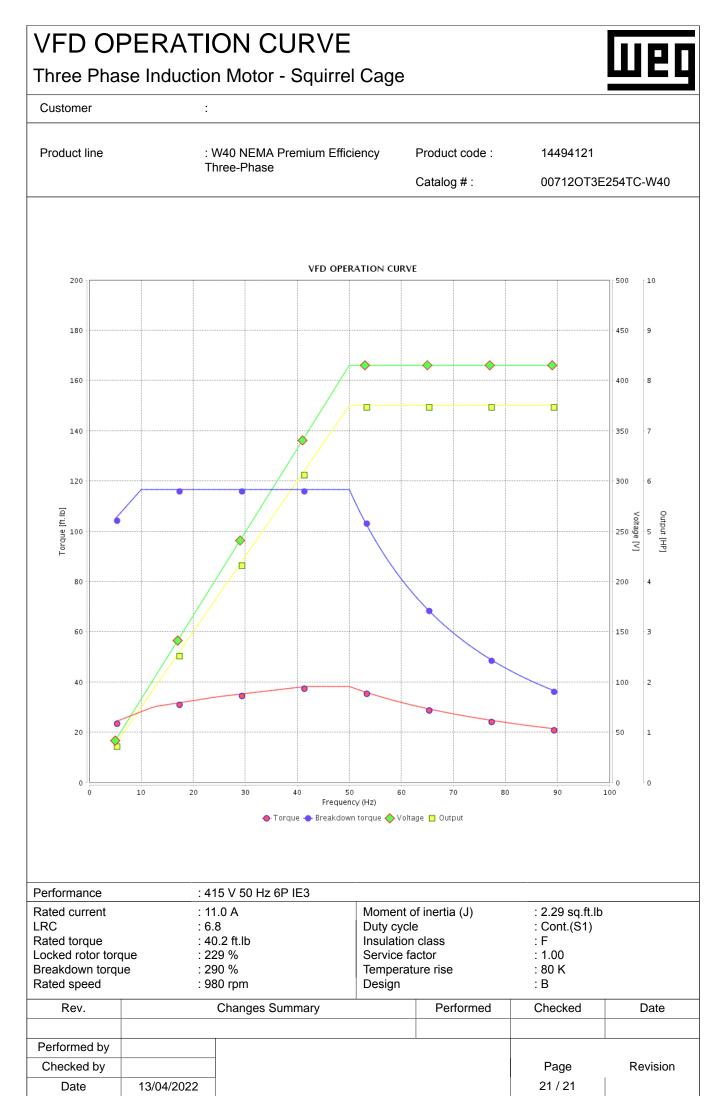
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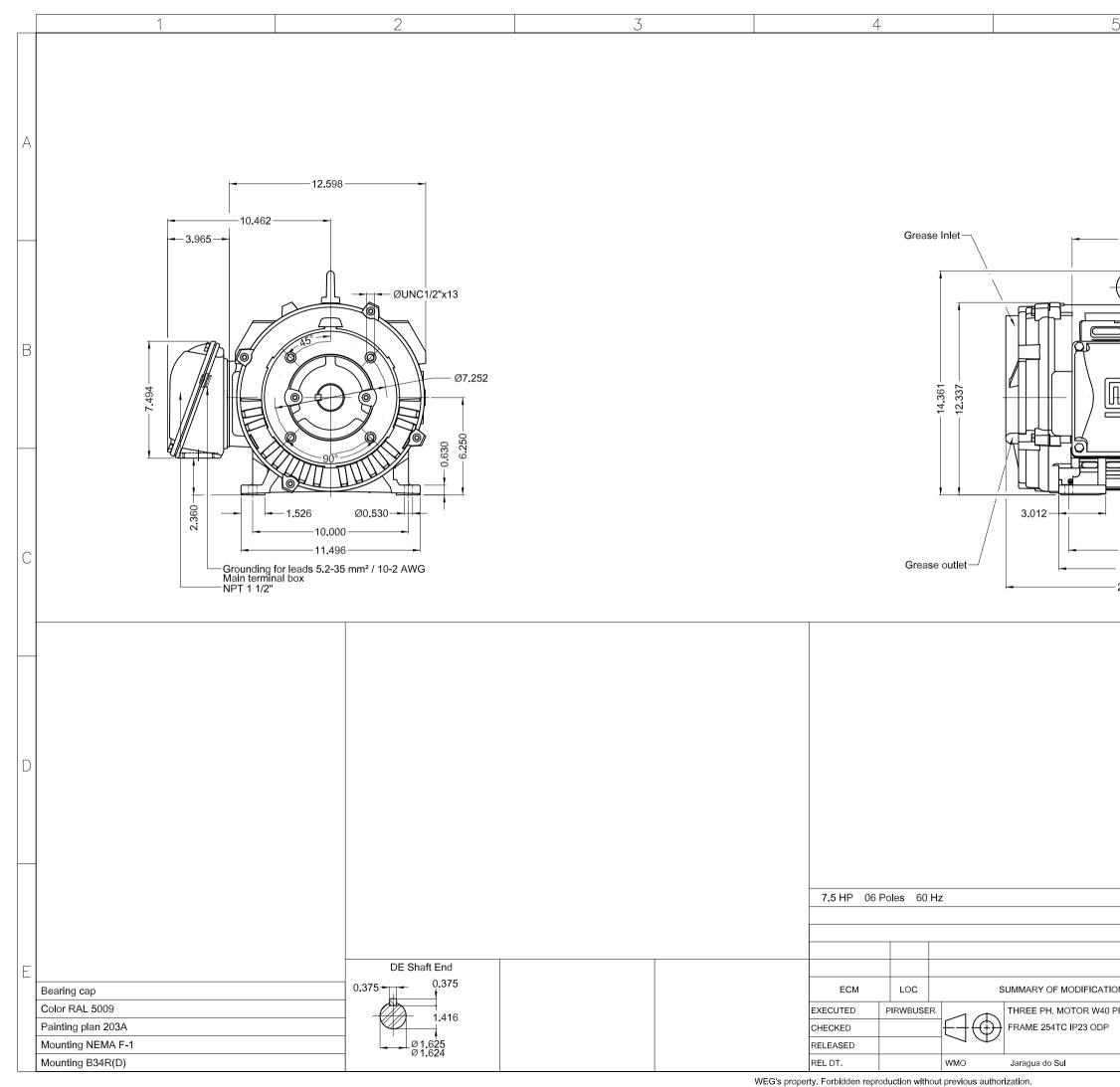












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