# DATA SHEET

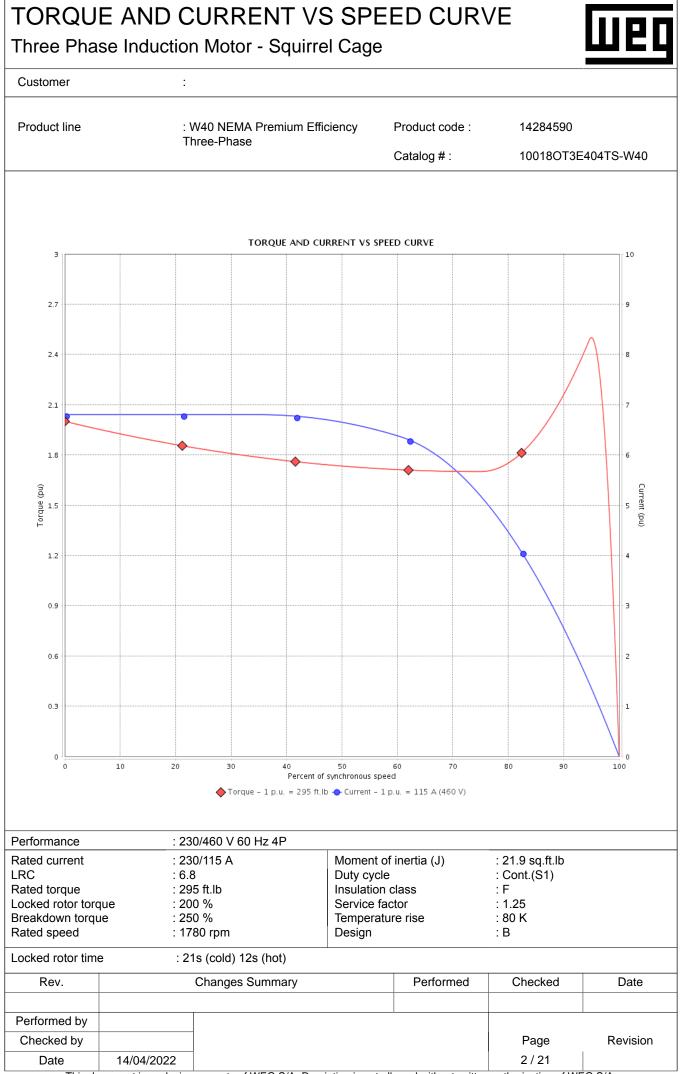
Three Phase Induction Motor - Squirrel Cage

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#### Customer

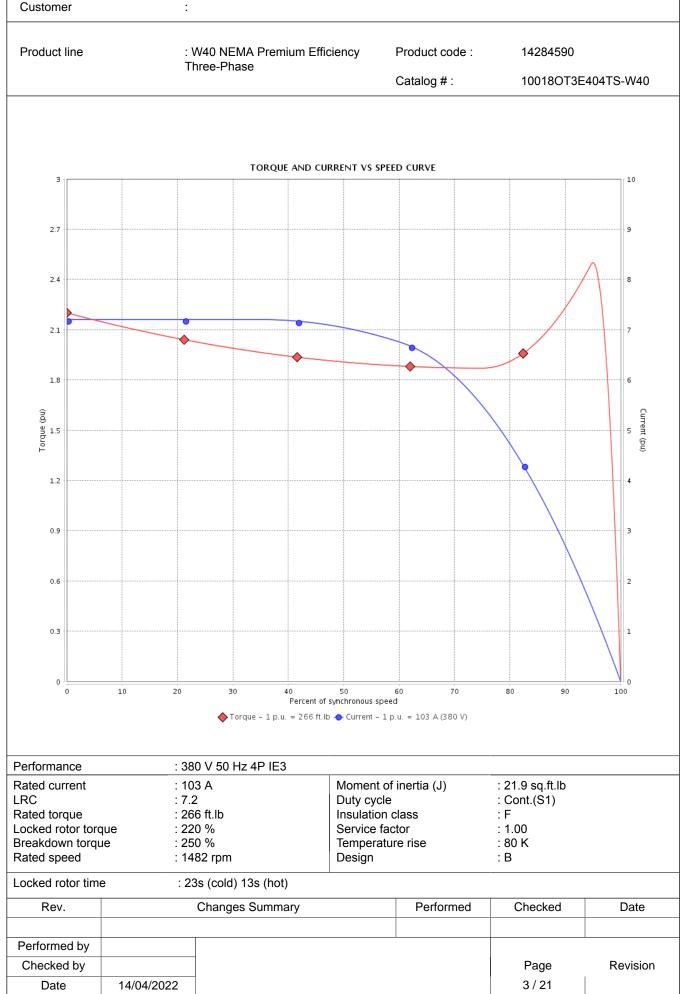
Product line		: W40 NEMA Premiur	efficiency Product code :		uct code :	14284590		
		Three-Phase		Cata	log # :	10018OT3E404TS-W40		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree				Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 939 lb : 21.9 sq.ft.lb		
Design Output [HP]		: B 100	1	75	75		75	
Poles		4		4	4		4	
Frequency [Hz]		60		50	50		50	
Rated voltage [V]		230/460		380	400	)	415	
Rated current [A]		230/115		103	97.5	5	96.2	
. R. Amperes [A]		1564/782		742	683	6	750	
_RC [A]		6.8x(Code G)	7.2	2x(Code H)	7.0x(Co	de H)	7.8x(Code J)	
No load current [A		79.4/39.7		33.0	36.5	5	40.0	
Rated speed [RPN	/]	1780		1482	1484		1485	
Slip [%]		1.11		1.20	1.07	7	1.00	
Rated torque [ft.lb		295		266	265		265	
_ocked rotor torqu		200		220	240		270	
Breakdown torque	e [%]	250		250 1.00	280		300	
Service factor			1.25		1.00		1.00	
Temperature rise		80 K		80 K	80 k		80 K	
_ocked rotor time		21s (cold) 12s (hot)	23s (c	cold) 13s (hot)	21s (cold) 1	2s (hot)	25s (cold) 14s (hot)	
Noise level <sup>2</sup>	0.5%	69.0 dB(A)						
	25%	94.9		90.2	90.3		90.3	
Efficiency (%)	50%	95.0		91.9	92.0		92.0	
2 ( )	75%	95.4		92.9	92.9		92.9	
	100%	95.4		94.7	94.7		94.7	
	25% 50%	0.49		0.50 0.73	0.47		0.44	
Power Factor	75%	0.75		0.73	0.72		0.70	
	100%	0.85		0.86	0.86		0.84	
Bearing type Sealing Lubrication interv	val	<u>Drive end</u> <u>Non dr</u> : 6314 C3 621 : Without W Bearing Seal Bear	r <u>ive end</u> 2 Z C3 ithout ing Seal 000 h	Foundation lo Max. traction Max. compres	bads	: 1916   : 2855	b	
Lubricant amour Lubricant type	nt	: 27 g : Mobil Polyrex B	13 g EM					
Notes USABLE @208V	254A SF 1.1	15 SFA 292A						
This revision repl must be eliminate (1) Looking the m	ed. notor from the 1m and with t	olerance of +3dB(A).	hich				sts with sinusoidal stipulated in NEMA	
	ocess.							
<ul><li>(2) Measured at 1</li><li>(3) Approximate v</li><li>manufacturing pro</li></ul>	ocess.	Changes Summary	,	P	Performed	Checked	d Date	
(2) Measured at (3) Approximate v manufacturing pro (4) At 100% of ful	ocess.		,	P	Performed	Checked	d Date	
(2) Measured at 1 (3) Approximate 0 manufacturing pro (4) At 100% of ful Rev.	ocess.	Changes Summary	,	P	Performed	Checked Page 1 / 21	d Date Revision	



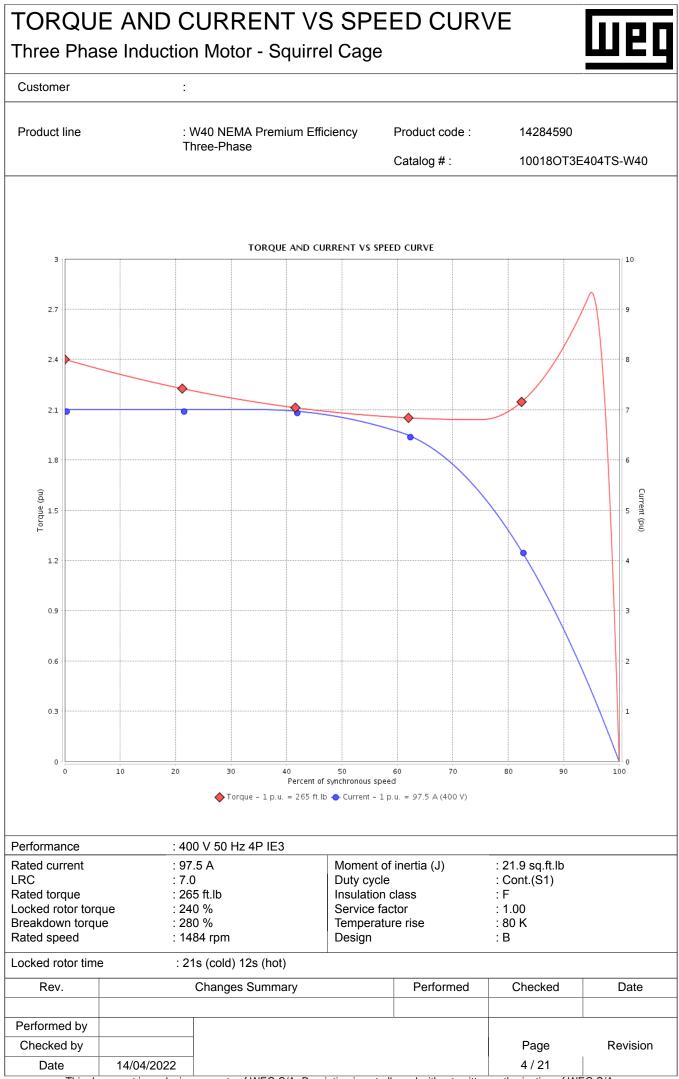
### TORQUE AND CURRENT VS SPEED CURVE

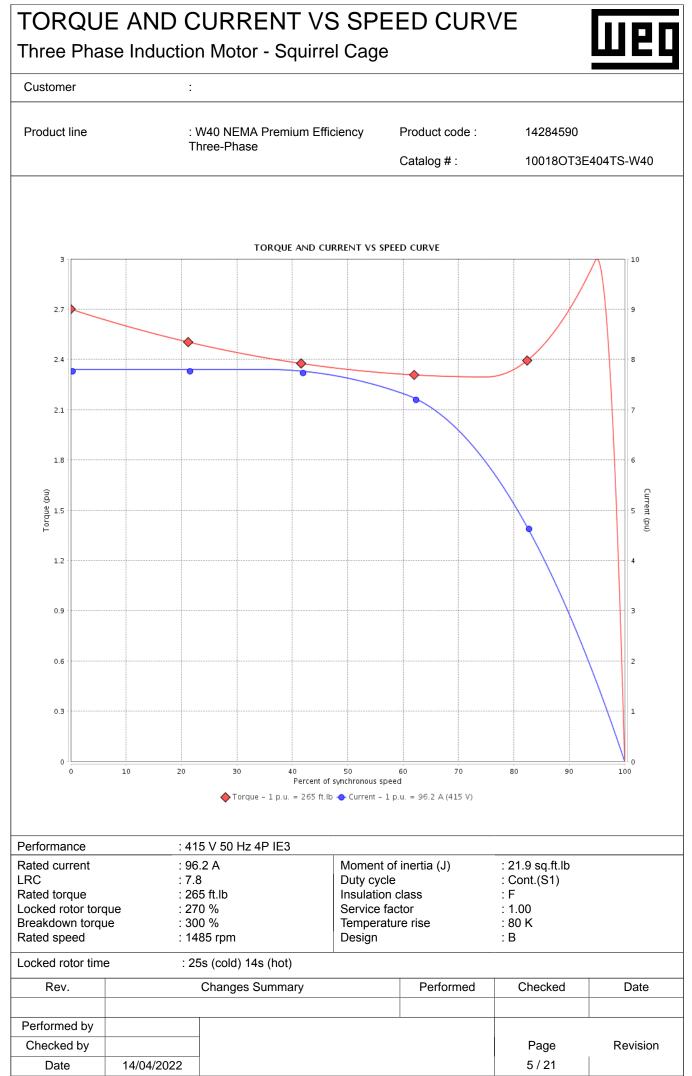
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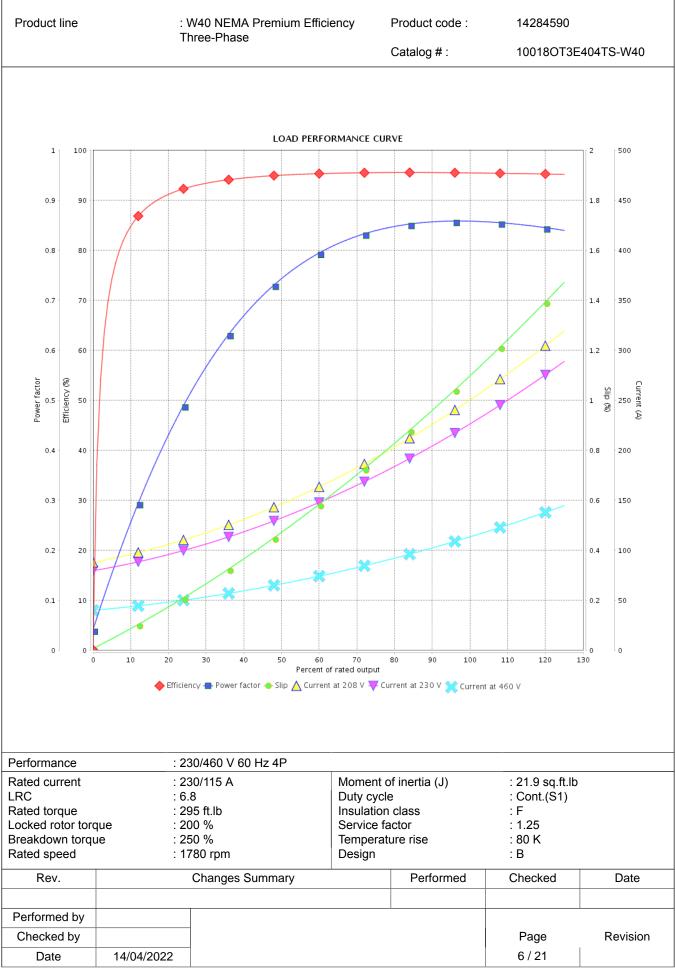
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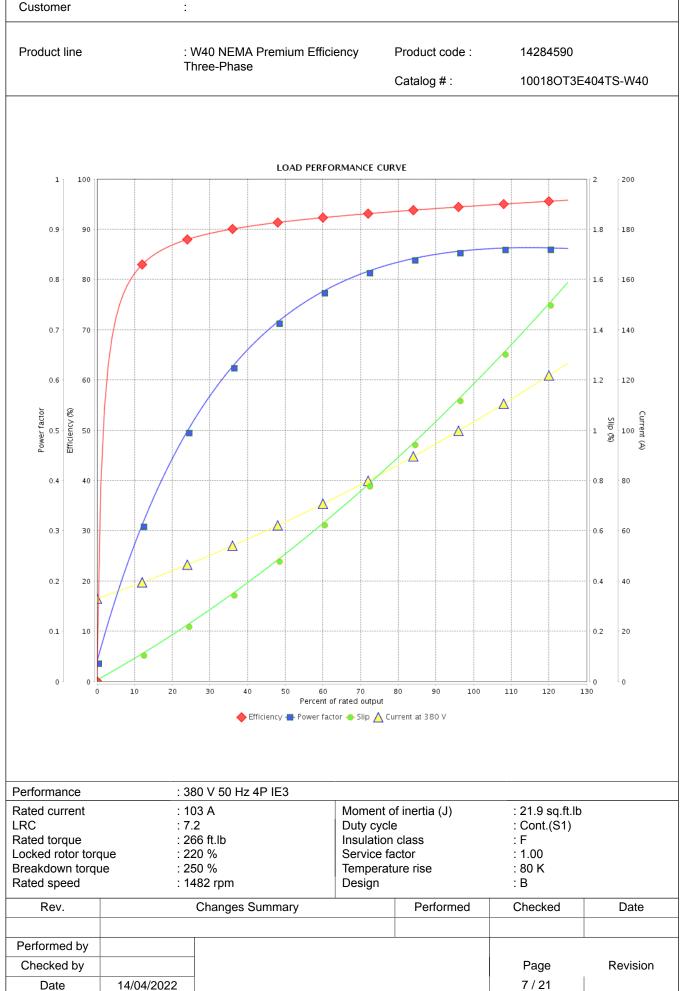


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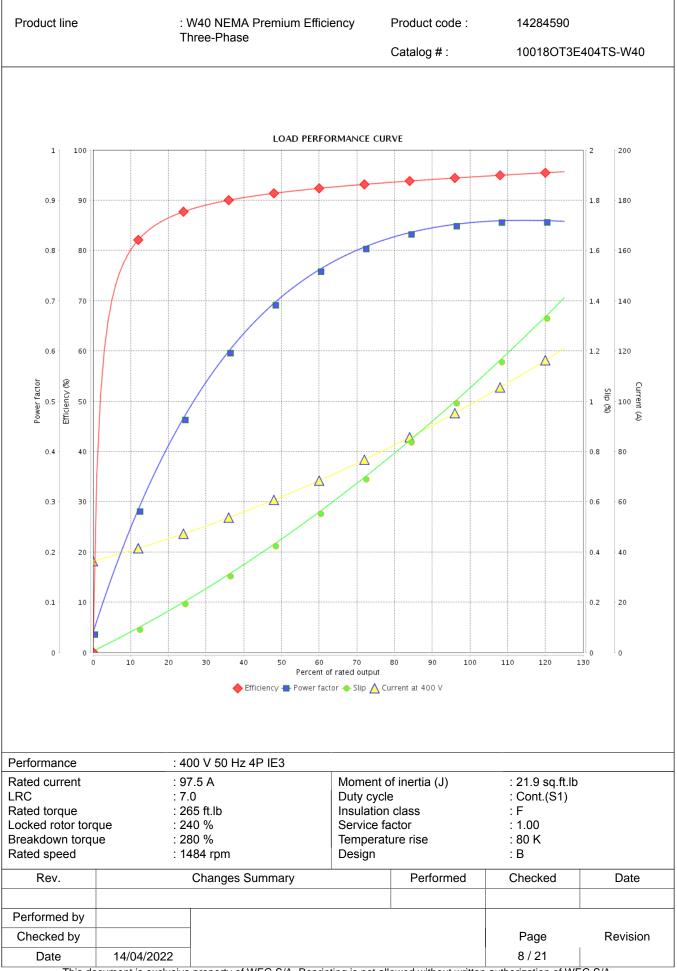
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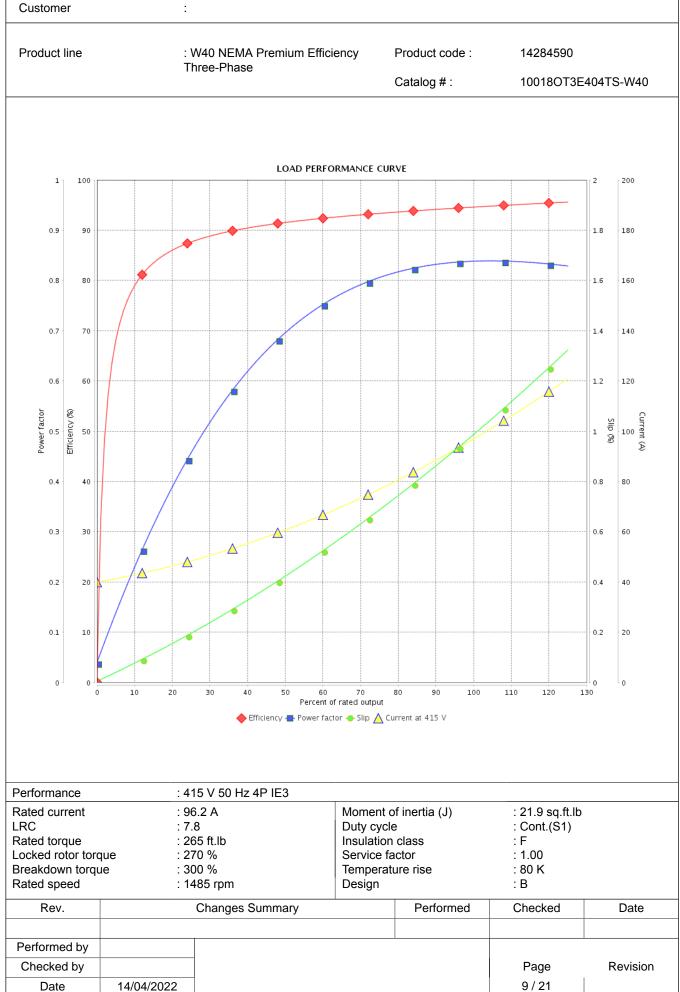


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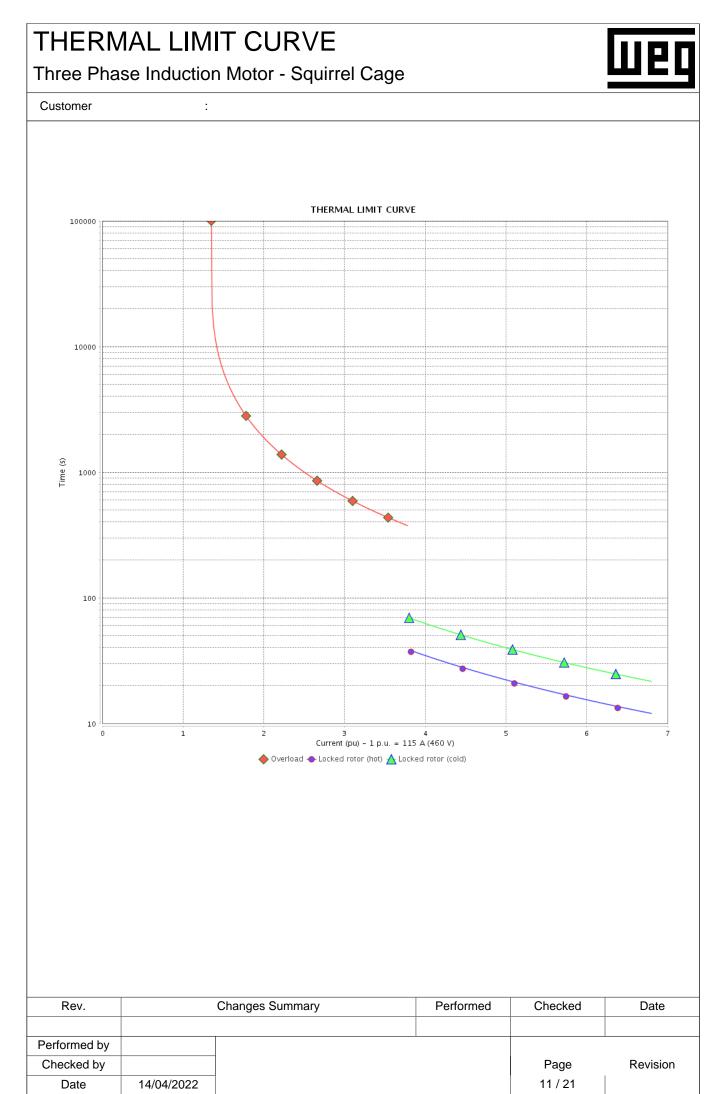
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14284590		
	11	liee-Pilase	1	Catalog # :	10018OT3E	404TS-W40	
Performance		30/460 V 60 Hz 4P					
LRC : 6 Rated torque : 2 Locked rotor torque : 2 Breakdown torque : 2		3 Duty c 5 ft.lb Insula 0 % Servic		class	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
Heating constan	t						
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
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Checked by					Page	Revision	
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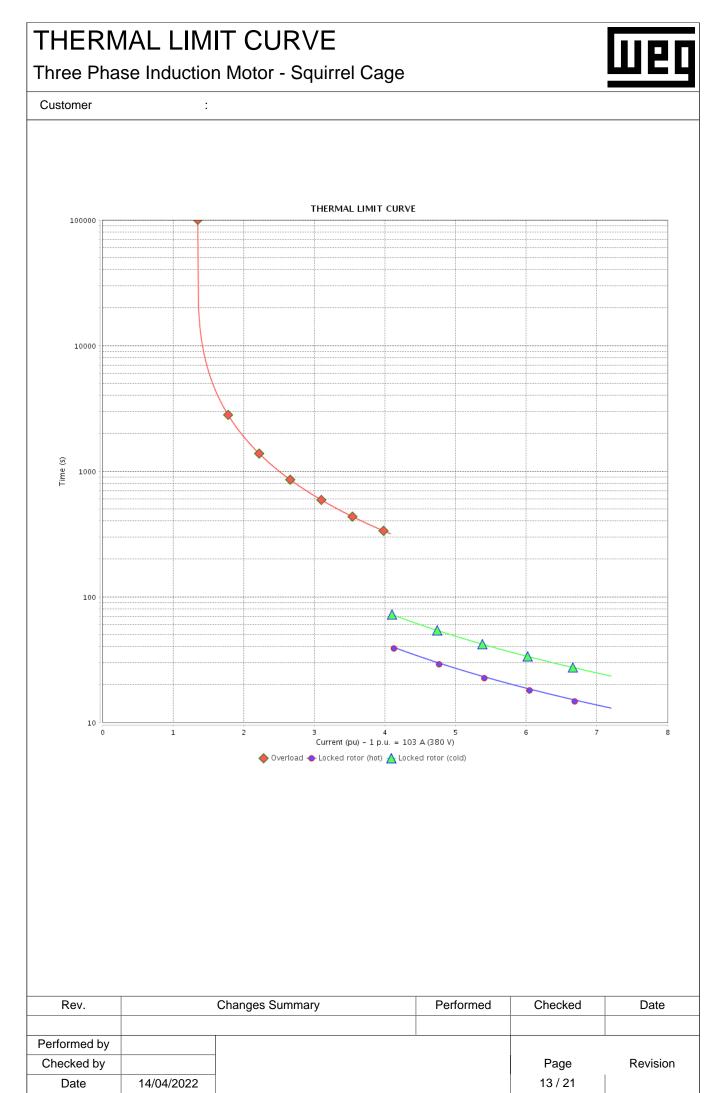
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: W40 NEMA Premium Efficien Three-Phase		ency	Product code :	14284590		
	IT	nree-Phase	1	Catalog # :	10018OT3E4	04TS-W40	
Performance		30 V 50 Hz 4P IE3					
Rated current: 103 ALRC: 7.2Rated torque: 266 ft.lbLocked rotor torque: 220 %Breakdown torque: 250 %		2 66 ft.lb 20 % 50 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K		
Rated speed		482 rpm	Design		: B		
Heating constant							
Cooling constant				<b></b>			
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THERMAL LIMIT CURVE	
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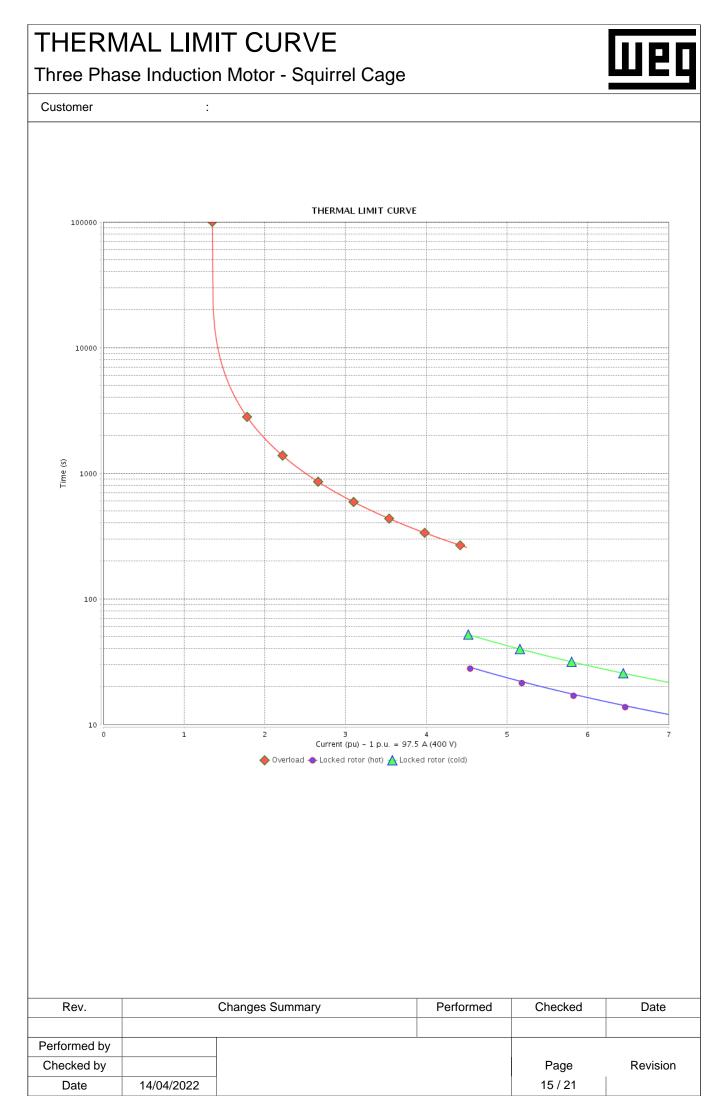
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Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14284590	14284590		
	•			Catalog # :	10018OT3E4	04TS-W40		
Performance		400 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque		97.5 A 7.0 265 ft.lb 240 % 280 % 1484 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Heating constan	t							
Cooling constant					·			
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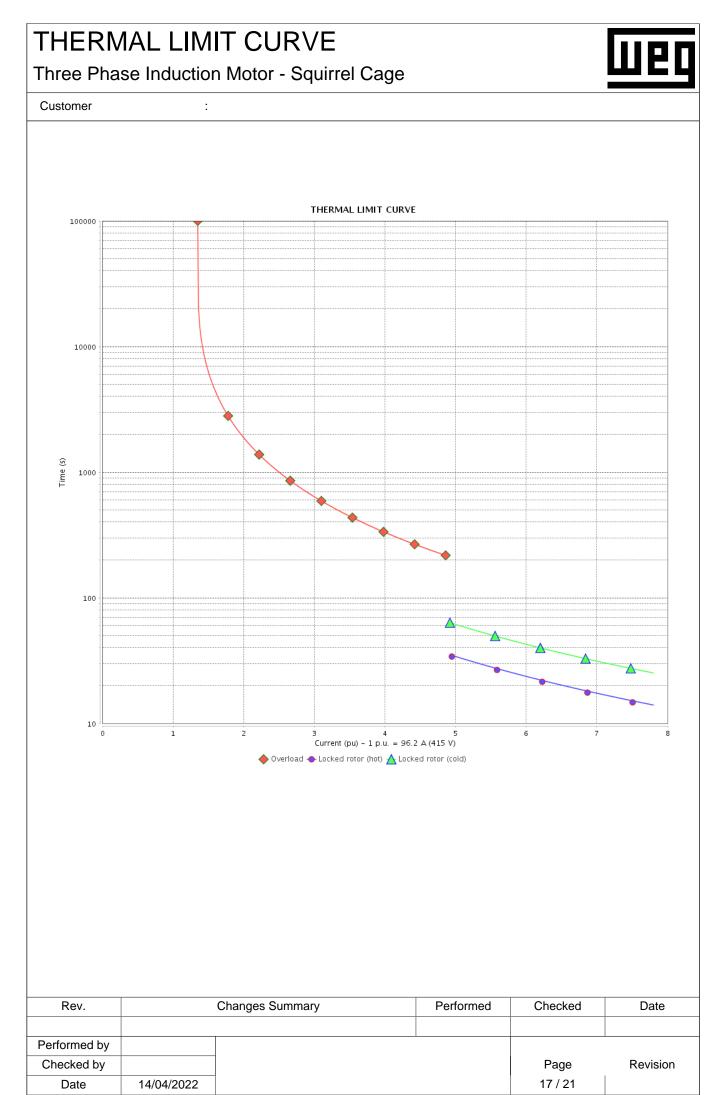
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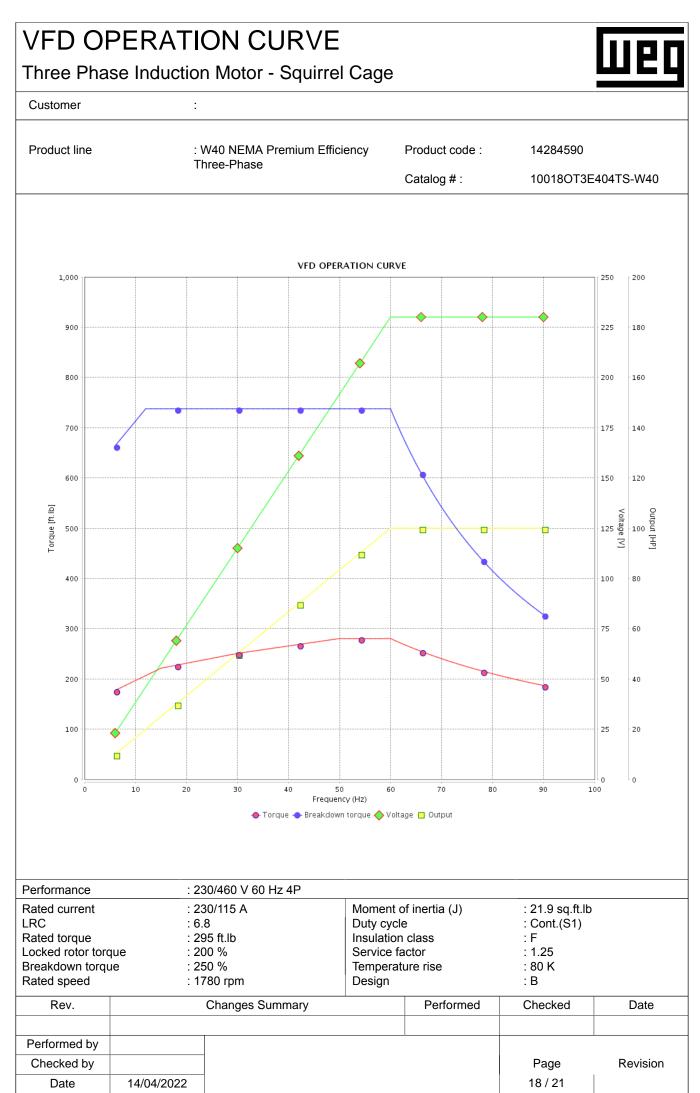
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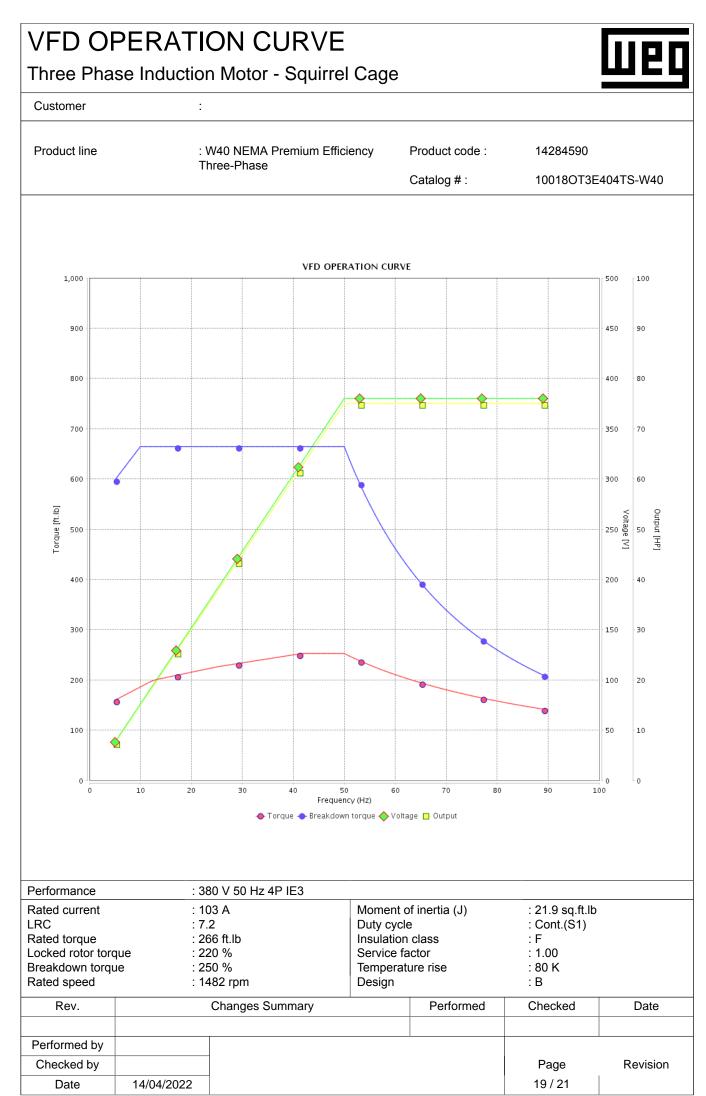


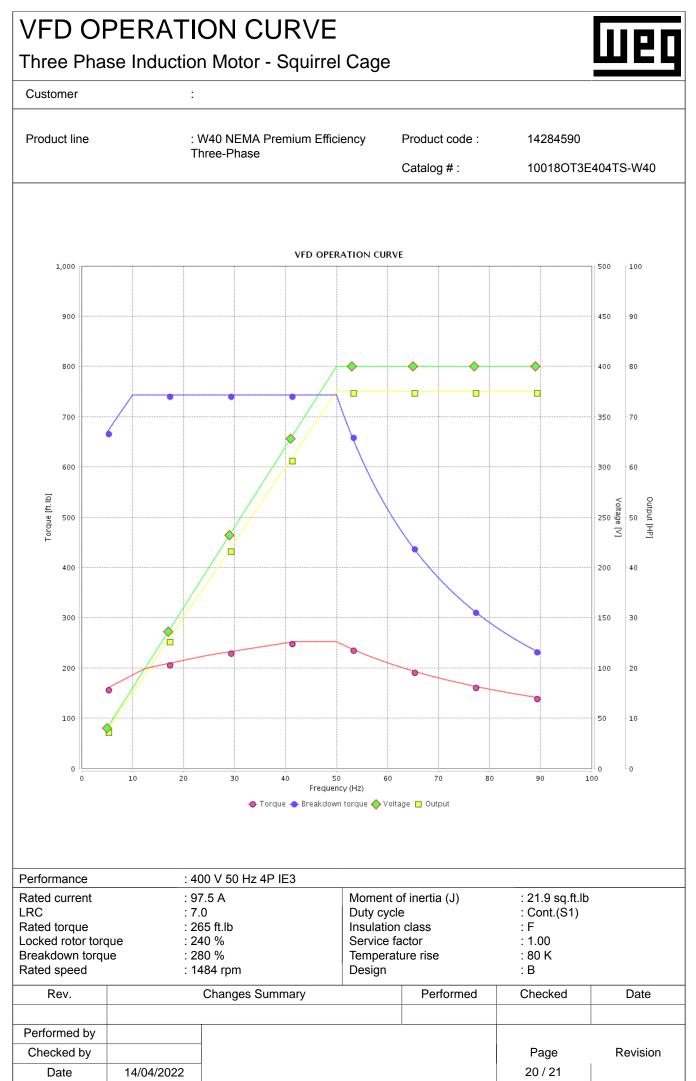
Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14284590		
				Catalog # :	10018OT3E4	04TS-W40	
Performance		15 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque		96.2 A 7.8 265 ft.lb 270 % 300 % 1485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constan			-				
Cooling constant							
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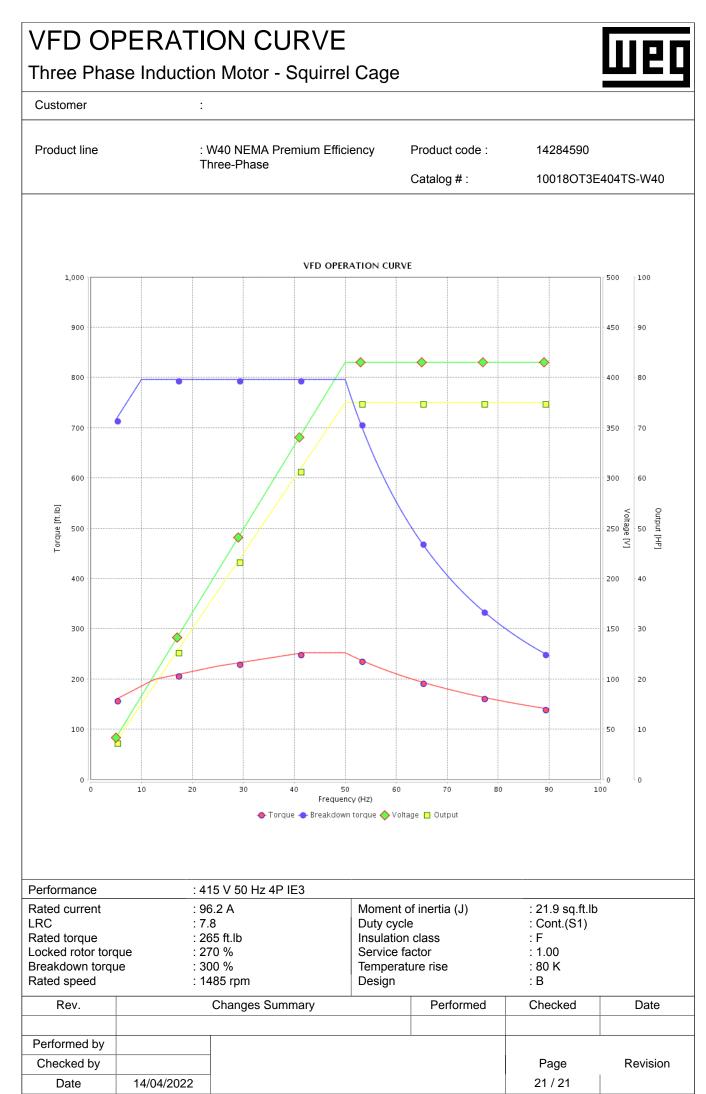


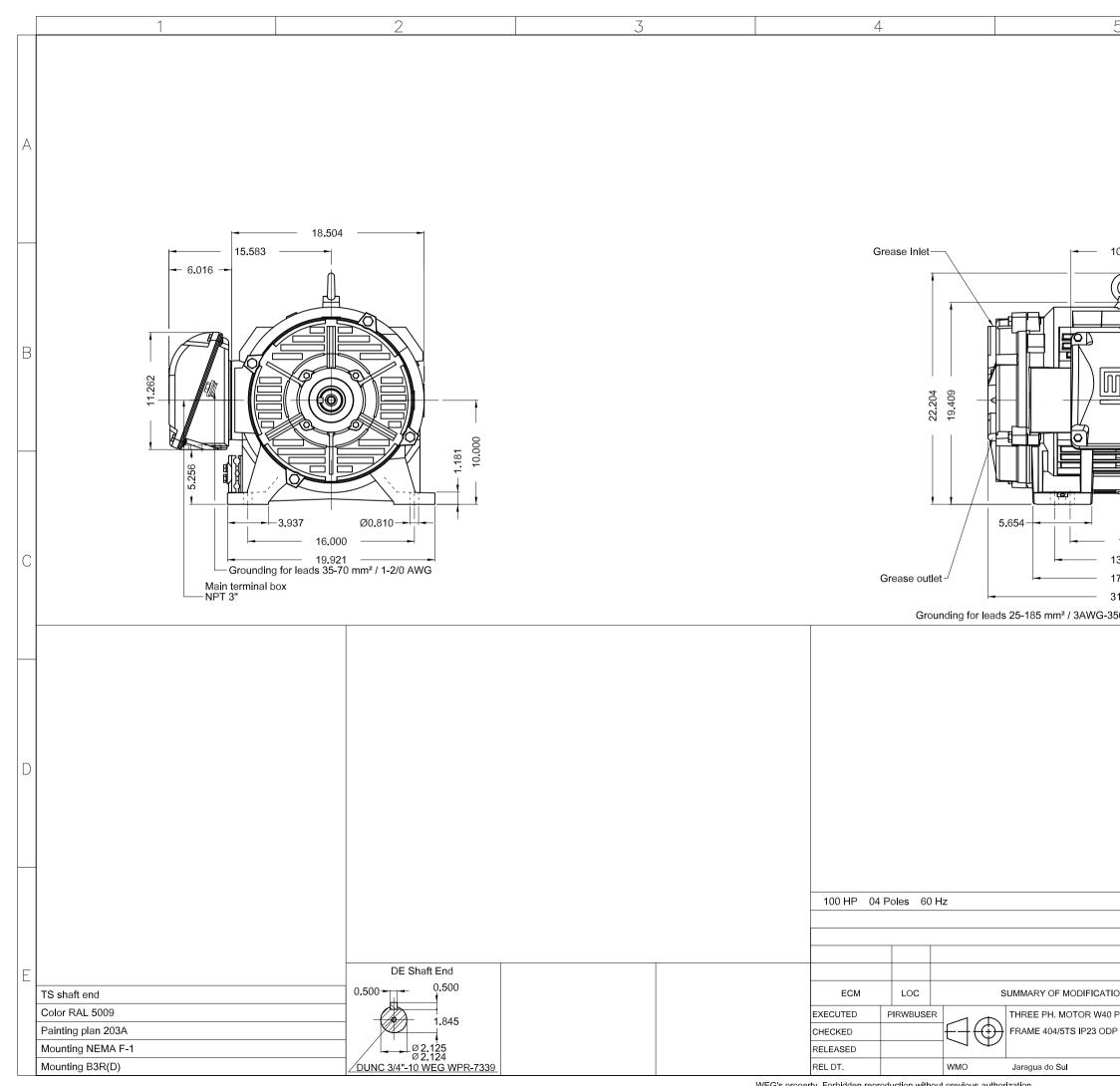






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