# DATA SHEET

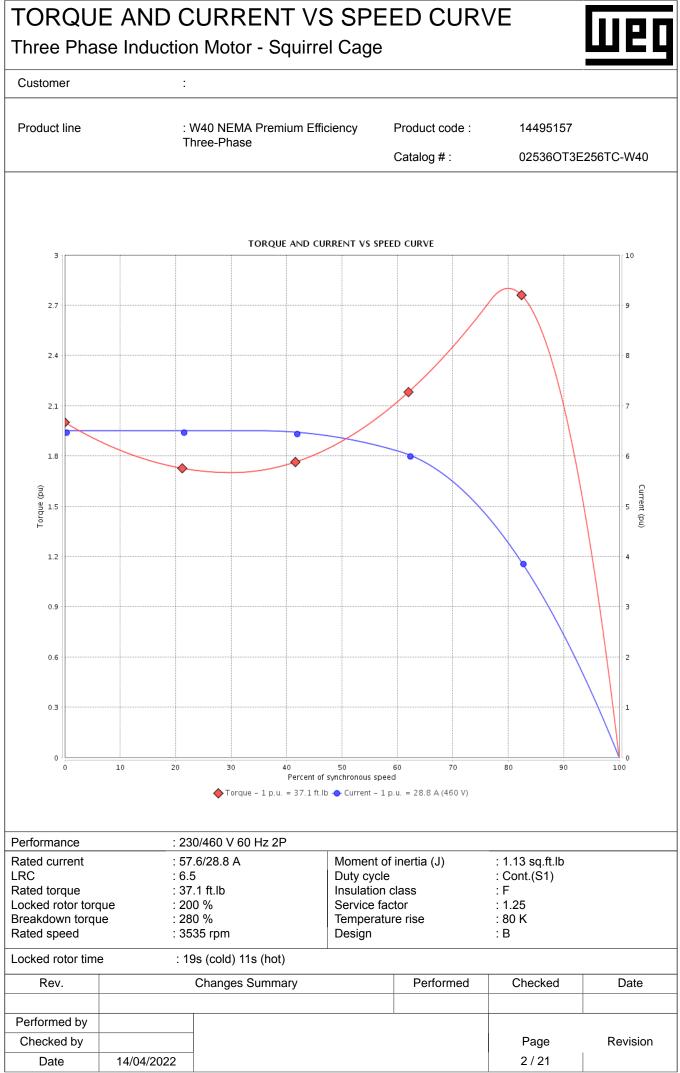
Three Phase Induction Motor - Squirrel Cage

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#### Customer

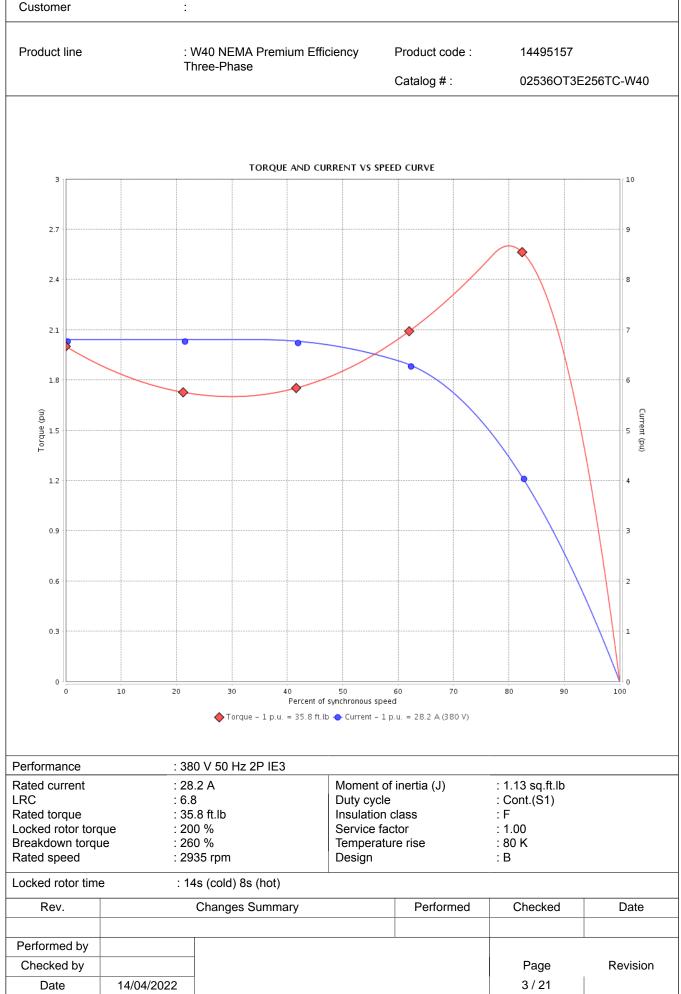
Product line		: W40 NEMA Premium Efficiency Three-Phase		-			14495157	
				Catalog # :		0253601	02536OT3E256TC-W40	
Frame		: 254/6TC		Cooling me	thod	: IC01 - (	DDP	
Insulation class		: F		Mounting		: F-1		
Duty cycle		: Cont.(S1)		Rotation <sup>1</sup>			W and CCW)	
Ambient tempera	ature	: -20°C to +40°C		Starting method		: Direct On Line		
Altitude		: 1000 m.a.s.l.		Approx. weight <sup>3</sup>		: 243 lb		
Protection degree Design		: IP23 : B		Moment of inertia (J)		: 1.13 sq.ft.lb		
Dutput [HP]		25		20	20	)	20	
Poles		2		2	2		2	
Frequency [Hz]		60		50	50	)	50	
Rated voltage [V]		230/460		380	400		415	
Rated current [A]		57.6/28.8		28.2	27.		27.0	
R. Amperes [A]		374/187		192	180		200	
.RC [A]		6.5x(Code G)	6.8	Bx(Code H)	6.8x(Co		7.4x(Code J)	
No load current [A	1	17.0/8.50	0.0	8.20	9.1		10.0	
Rated speed [RPN		3535		2935	294		2950	
	ויי ו	1.81		2935	1.8		1.67	
Rated torque [ft.lb]	1	37.1		35.8	35.		35.6	
		200		200	220		229	
ocked rotor torqu								
Breakdown torque	;[70]	280		260	300		320	
Service factor		1.25		1.00	1.0		1.00	
emperature rise		80 K		80 K	80		80 K	
Locked rotor time		19s (cold) 11s (hot) 14s (d		cold) 8s (hot) 18s (co		10s (hot)	14s (cold) 8s (hot)	
loise level <sup>2</sup>	0531						07.0	
	25%	90.8		87.6	87.		87.9	
Efficiency (%)	50%	91.0		89.5	89.		89.6	
	75%	91.7		89.9	90.		90.1	
	100%	91.7	91.9		91.		91.9	
	25%	0.53		0.54	0.4		0.45	
Dowor Easter	50%	0.77		0.77	0.7		0.69	
Power Factor	75%	0.85		0.85	0.8	2	0.79	
	100%	0.88	0.88 (		0.8	6	0.84	
		Drive end Non dr	ive end	Foundation I	oads			
Bearing type		: 6309 Z C3 6209 Z C3 N		Max. traction				
Sealing				max: a doubin				
			ing Seal					
Lubrication interv	val		000 h					
Lubricant amoun			9 g					
Lubricant type		: Mobil Polyrex E						
Notes								
USABLE @208V	63.7A SF 1.	.15 SFA 73.2A						
				[				
This revision repl	aces and car	ncel the previous one, wh	nich	These are a	verage values b	based on tests	s with sinusoidal	
must be eliminate				power suppl	y, subject to the	e tolerances st	ipulated in NEMA	
(1) Looking the m				MG-1.				
		tolerance of +3dB(A).						
(3) Approximate v		ct to changes after						
manufacturing pro	ll load.							
manufacturing pro (4) At 100% of ful					Performed	Checked	Date	
manufacturing pro		Changes Summary						
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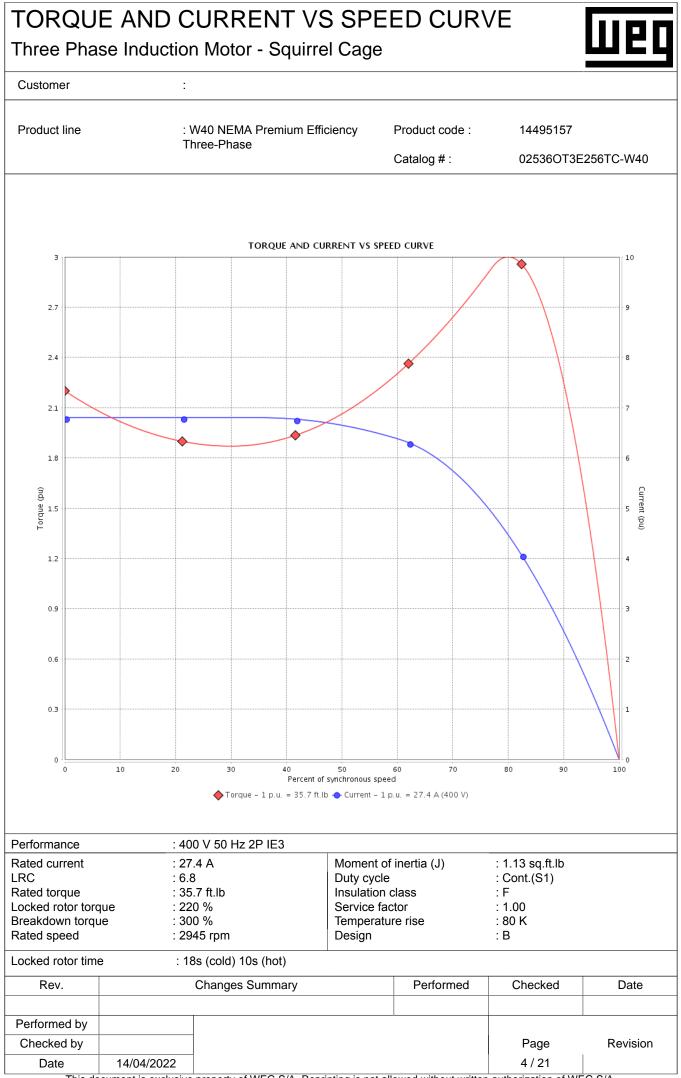
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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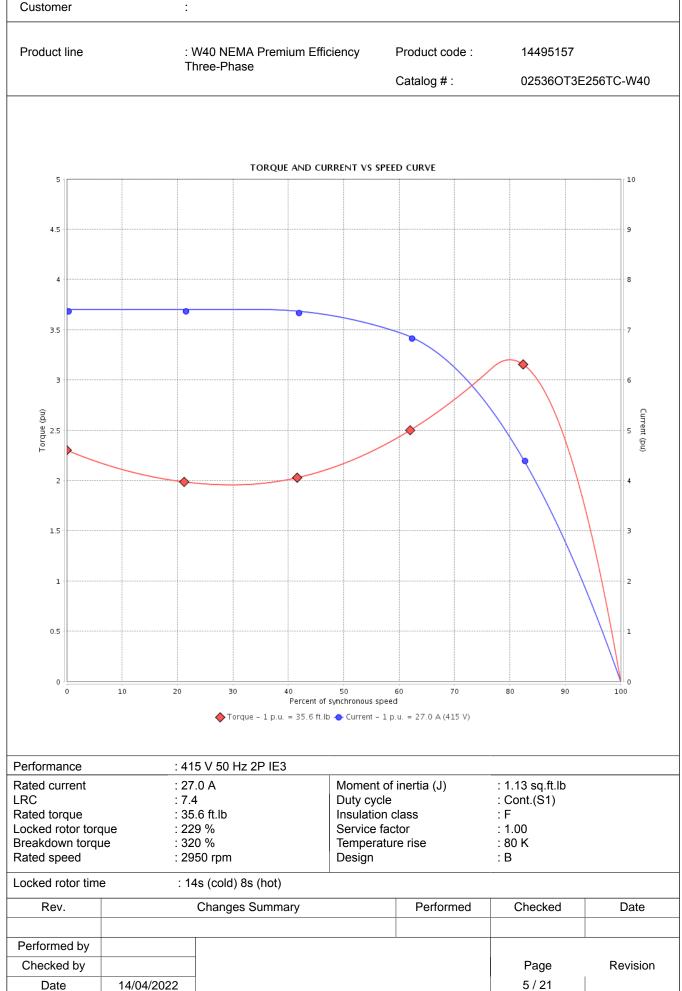
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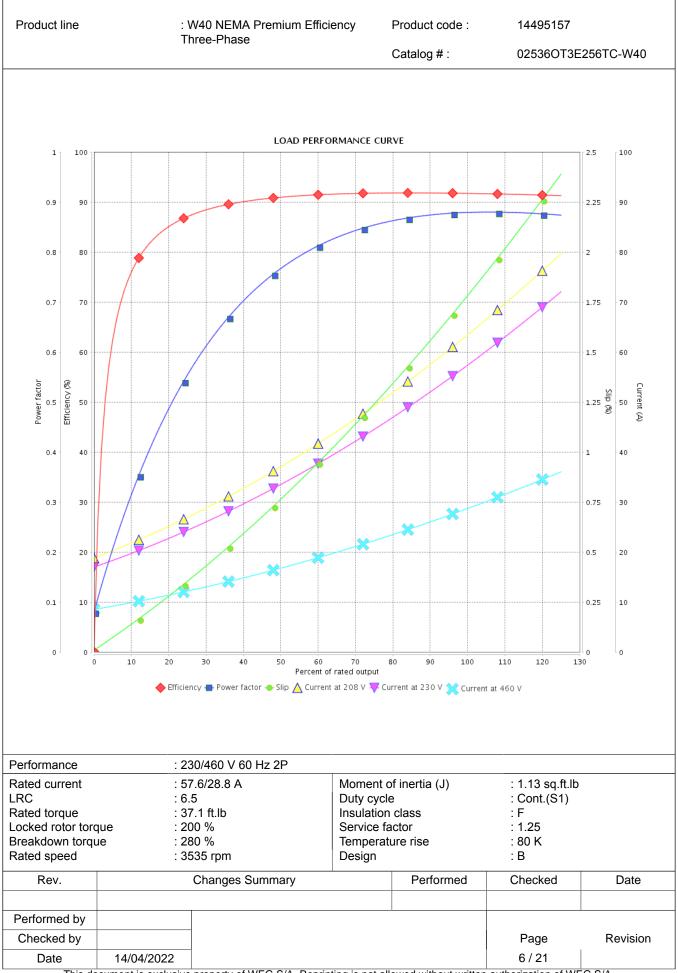
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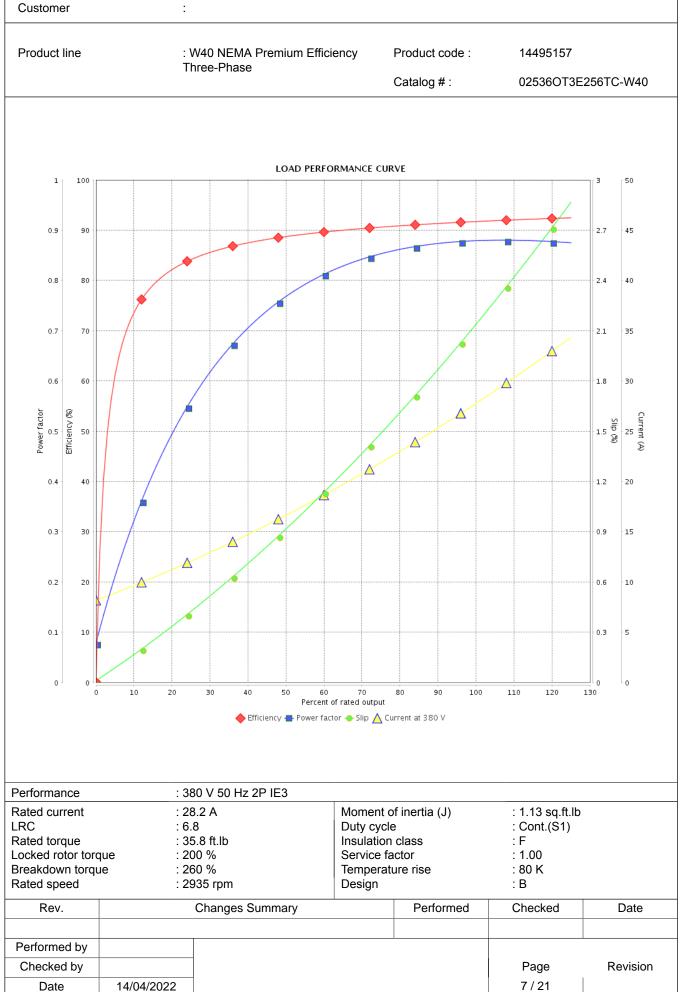


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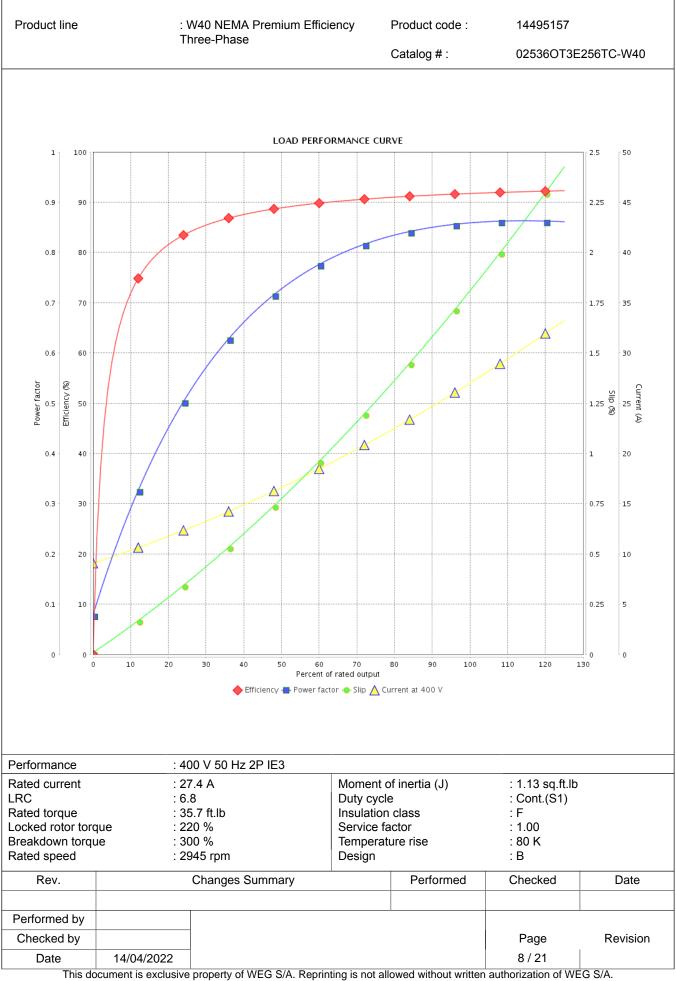
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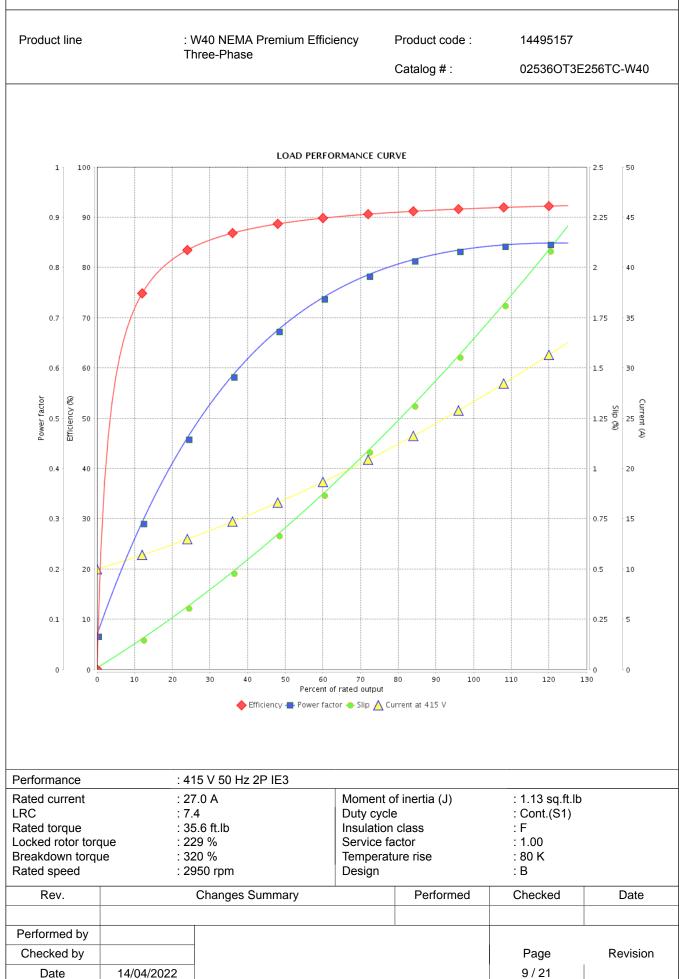
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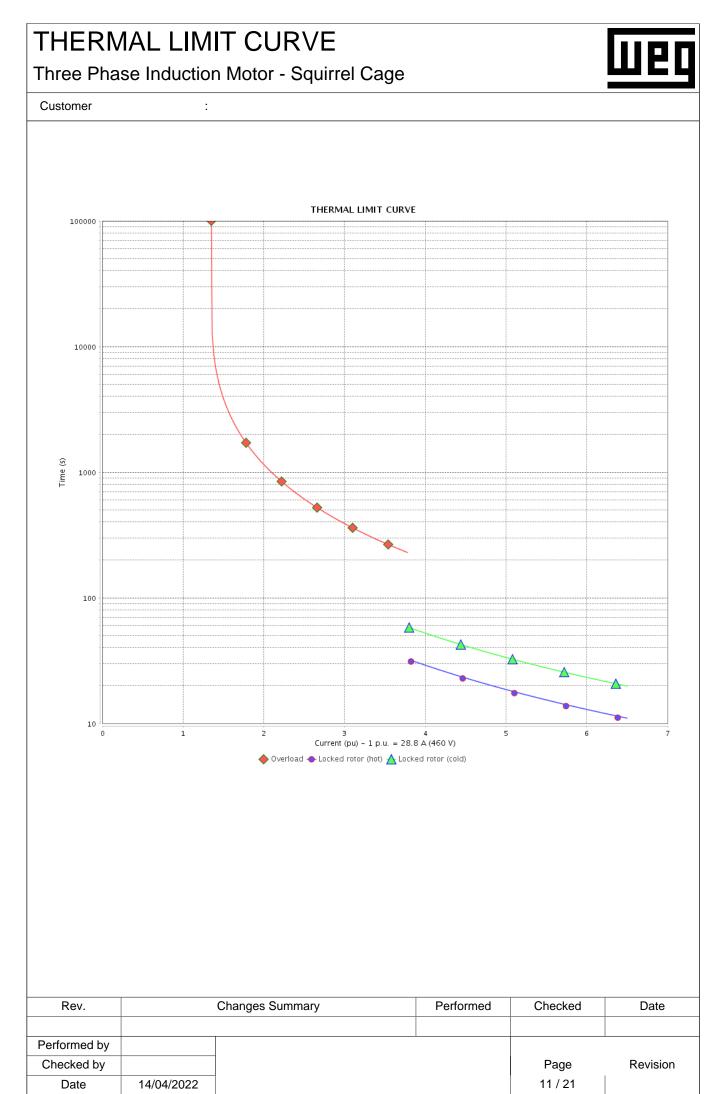
Product line : W40 NEMA Premium Efficie Three-Phase		ency Product code : Catalog # :		14495157 02536OT3E256TC-W40		
Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		7.6/28.8 A 5.5 7.1 ft.lb 00 % 80 % 535 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	:					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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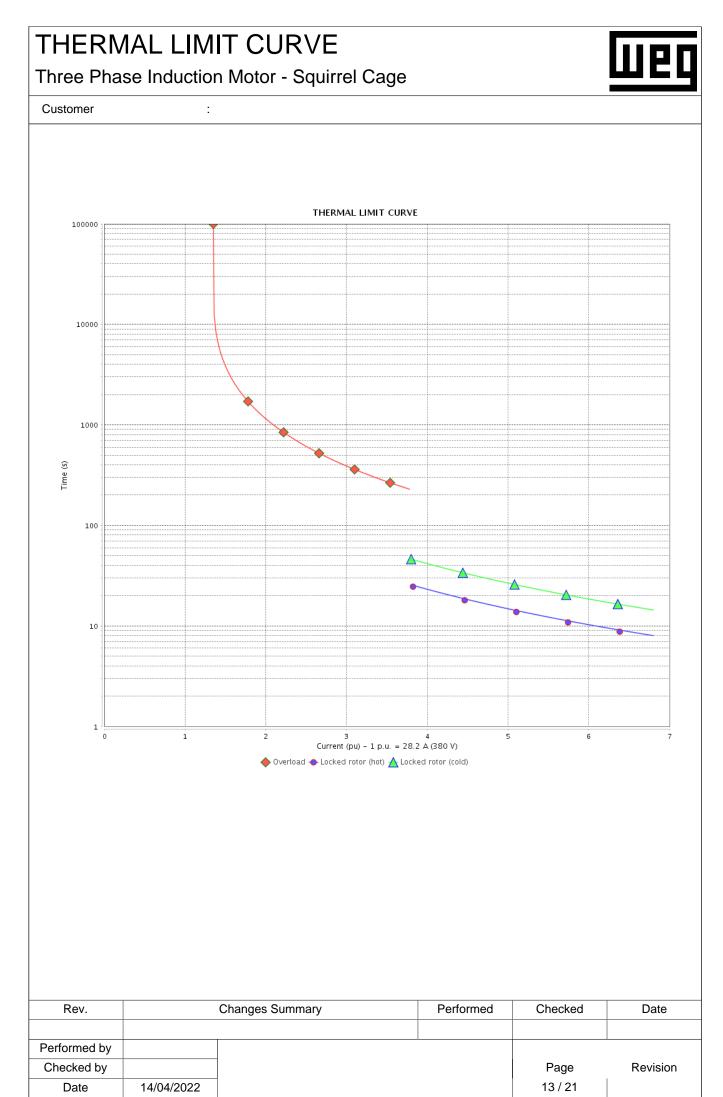
Product line	: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14495157		
			Catalog # :	02536OT3E	256TC-W40	
Performance	: 380 V 50 Hz 2P IE3					
Rated current	: 28.2 A	Moment of inertia (J)		: 1.13 sq.ft.lb : Cont.(S1)		
LRC : 6.8 Rated torque : 35.8 ft.lb		Duty cycle Insulation class		: F		
Locked rotor torque Breakdown torque	: 200 % : 260 %	Service fa Temperatu		: 1.00 : 80 K		
Rated speed	: 2935 rpm	Design		: B		
Heating constant						
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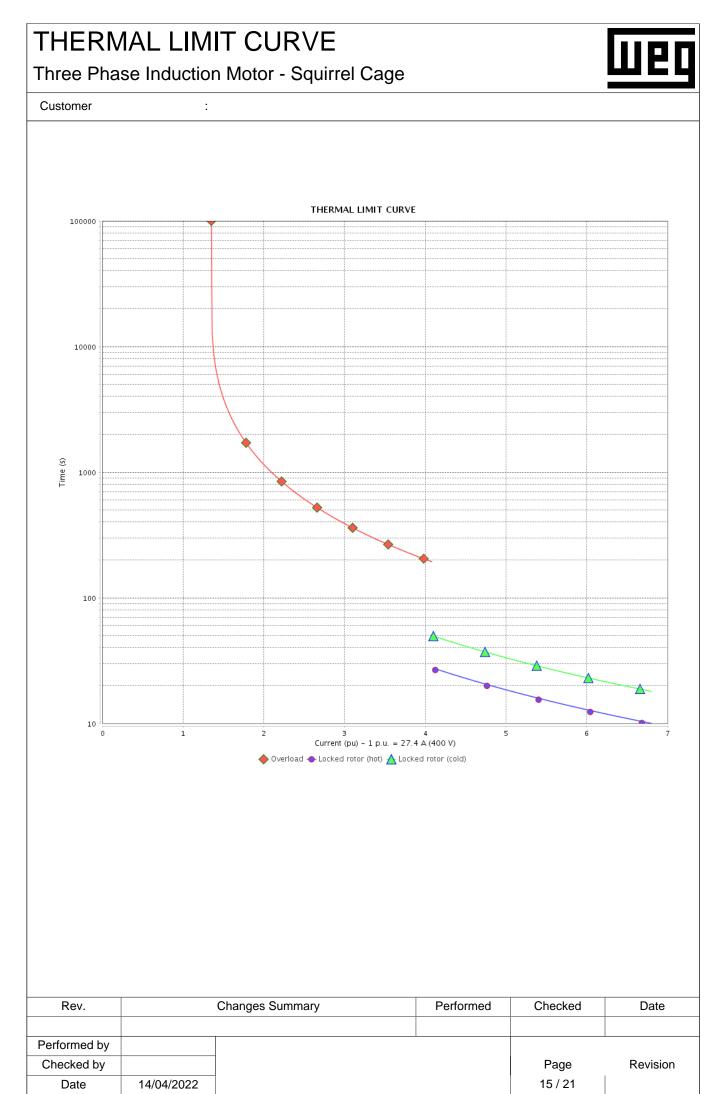
Product line	: W40 NEMA Premium Efficiency Three-Phase		Product code :	14495157		
			Catalog # :	02536OT3E	256TC-W40	
Performance Rated current	: 400 V 50 Hz 2P IE3 : 27.4 A	Moment o	f inertia (J)	: 1.13 sq.ft.lb		
LRC	: 6.8	Duty cycle		: Cont.(S1) : F		
Rated torque : 35.7 ft.lb Locked rotor torque : 220 %		Insulation class Service factor		: 1.00		
Breakdown torque Rated speed	: 300 % : 2945 rpm	Temperatu Design	ure rise	: 80 K : B		
Heating constant	<b>r</b>					
Cooling constant						
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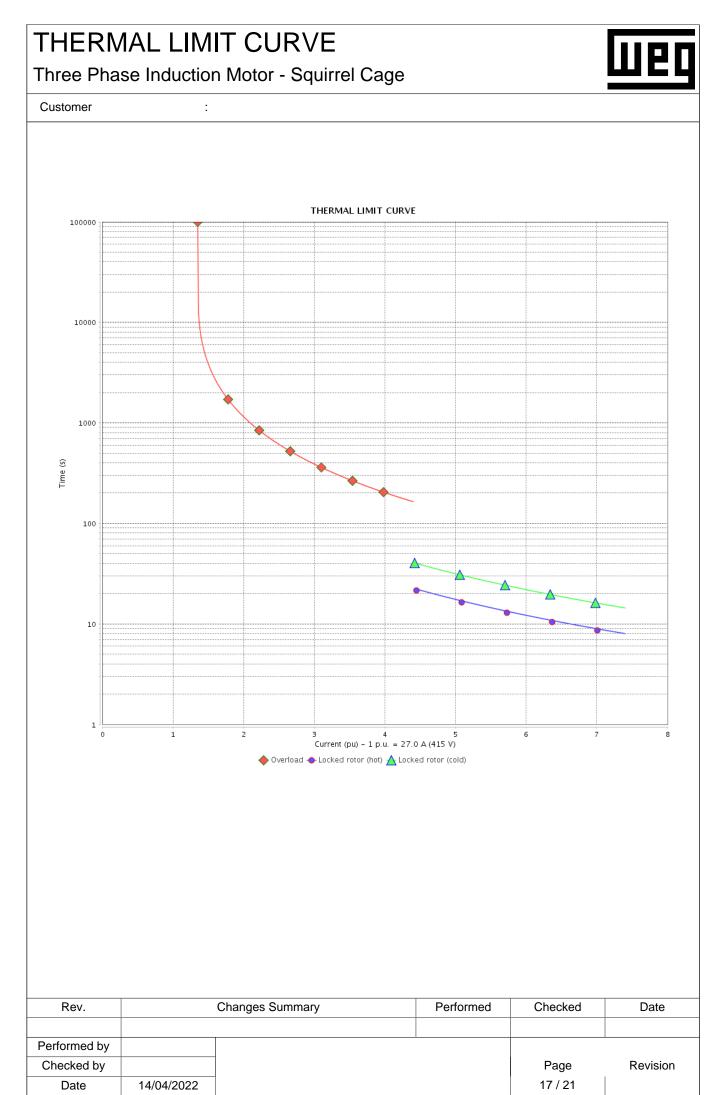
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14495157	14495157		
				Catalog # :	02536OT3E2	256TC-W40		
Performance	: 4	15 V 50 Hz 2P IE3						
Rated current : 27.0 A			Moment of inertia (J)		: 1.13 sq.ft.lb			
LRC : 7.4 Rated torque : 35.6 ft.lb		Duty cycle Insulation class		: Cont.(S1) : F				
Locked rotor torque : 229 % Breakdown torque : 320 %			Service factor Temperature rise		: 1.00 : 80 K			
Rated speed		950 rpm	Design		: B			
Heating constant								
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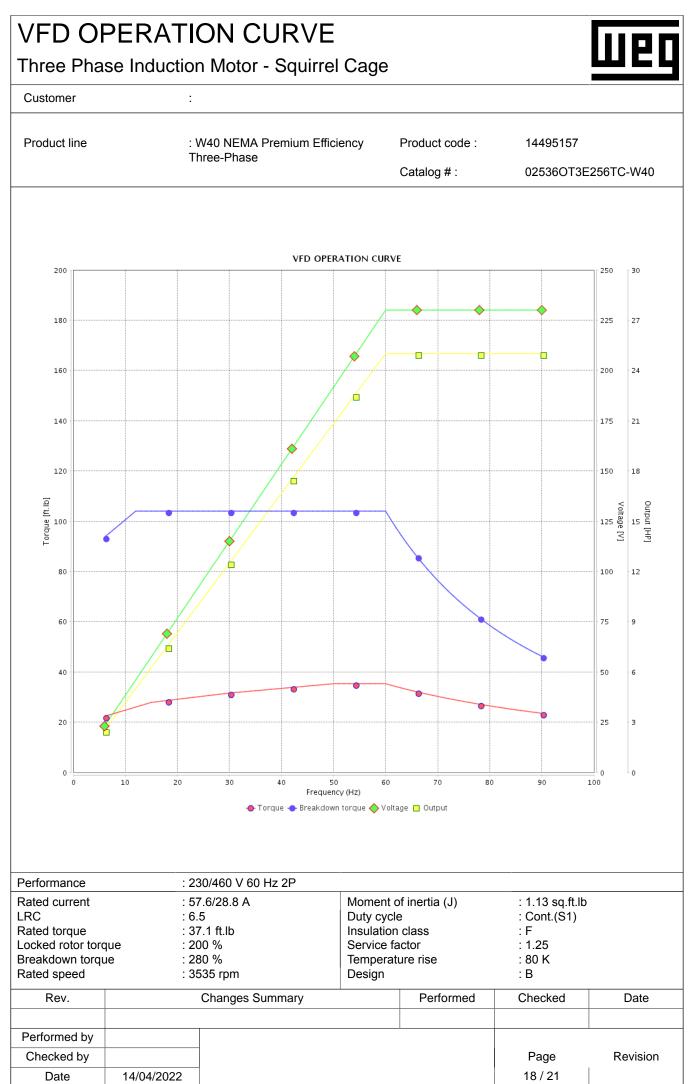
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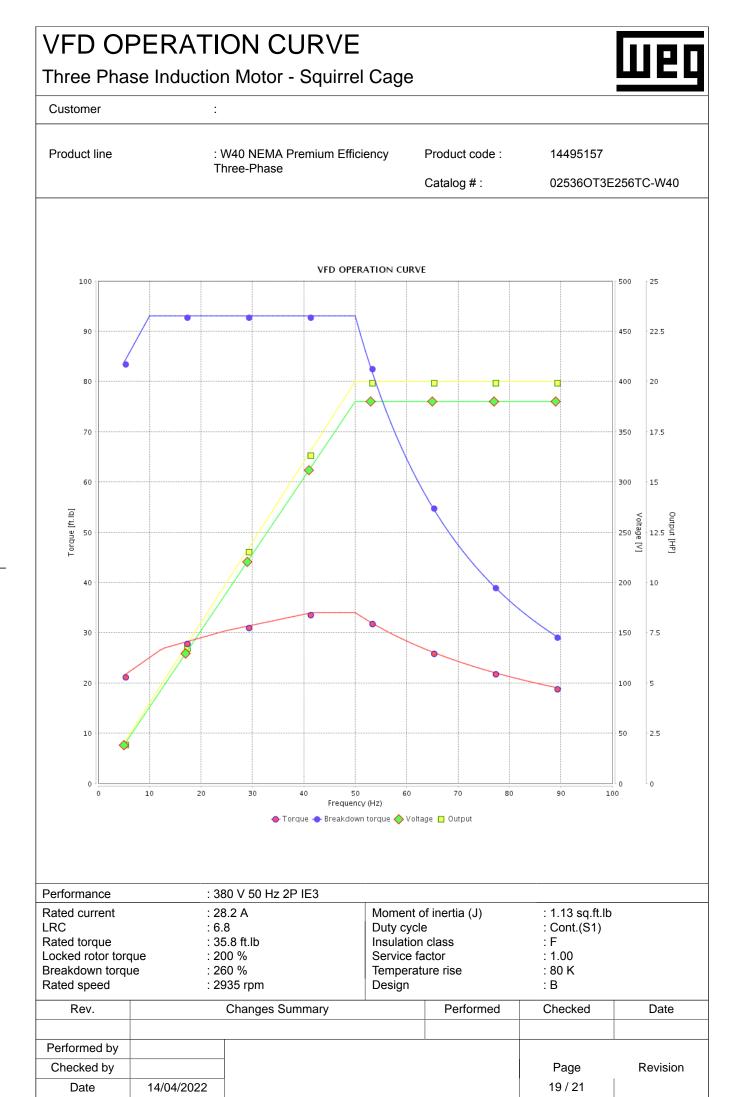
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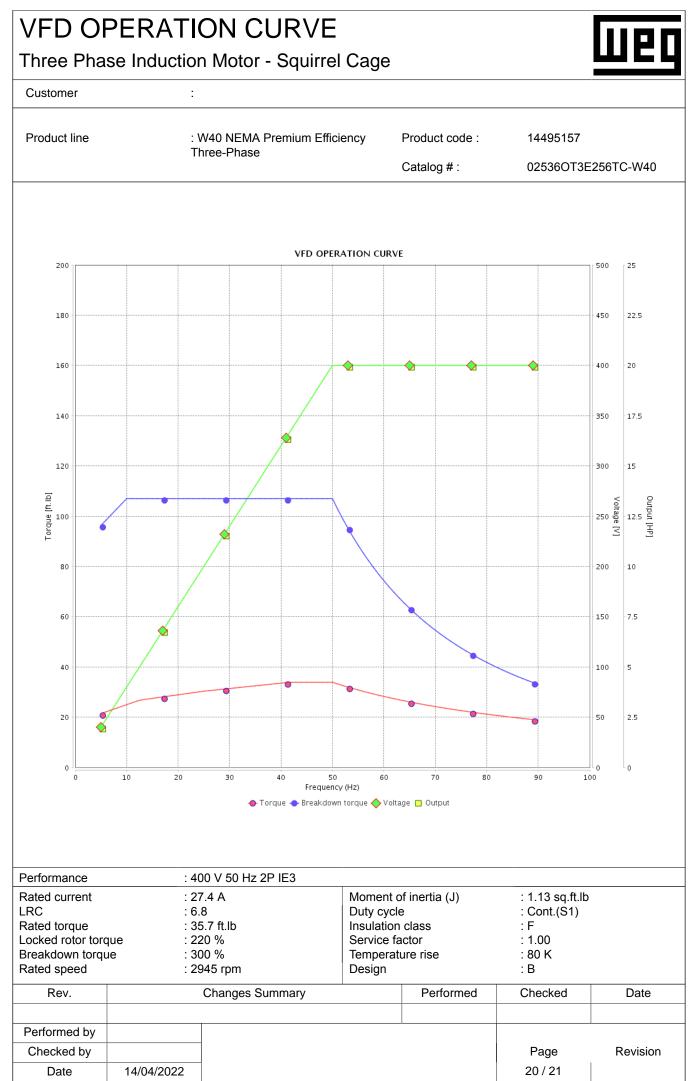




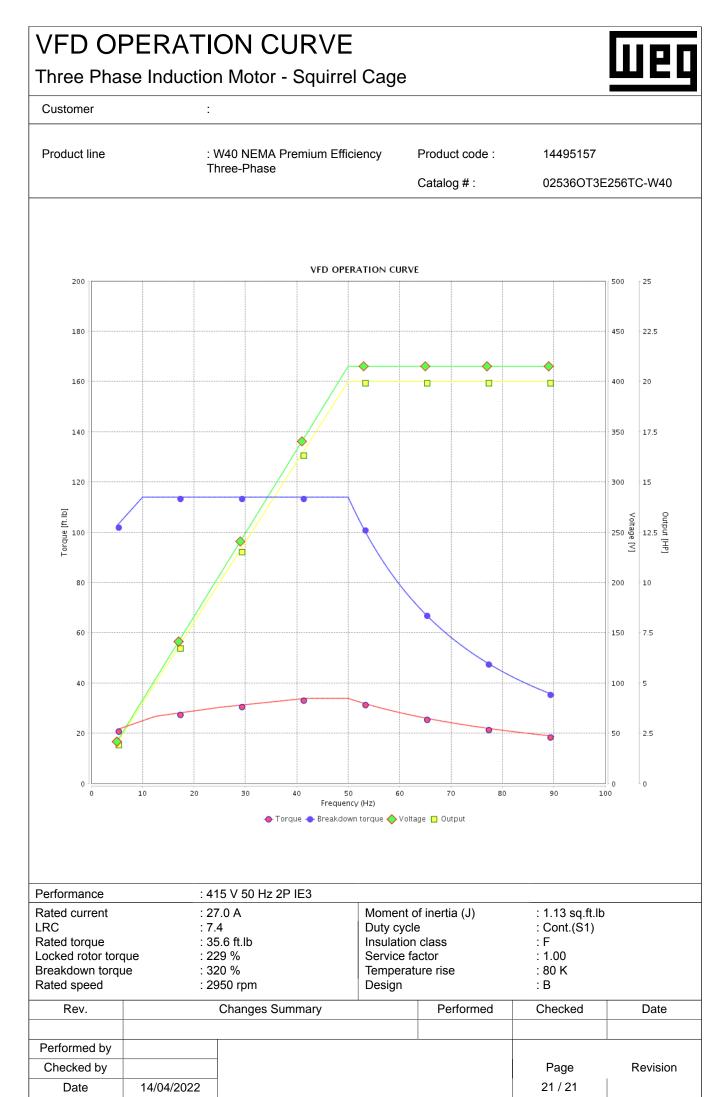
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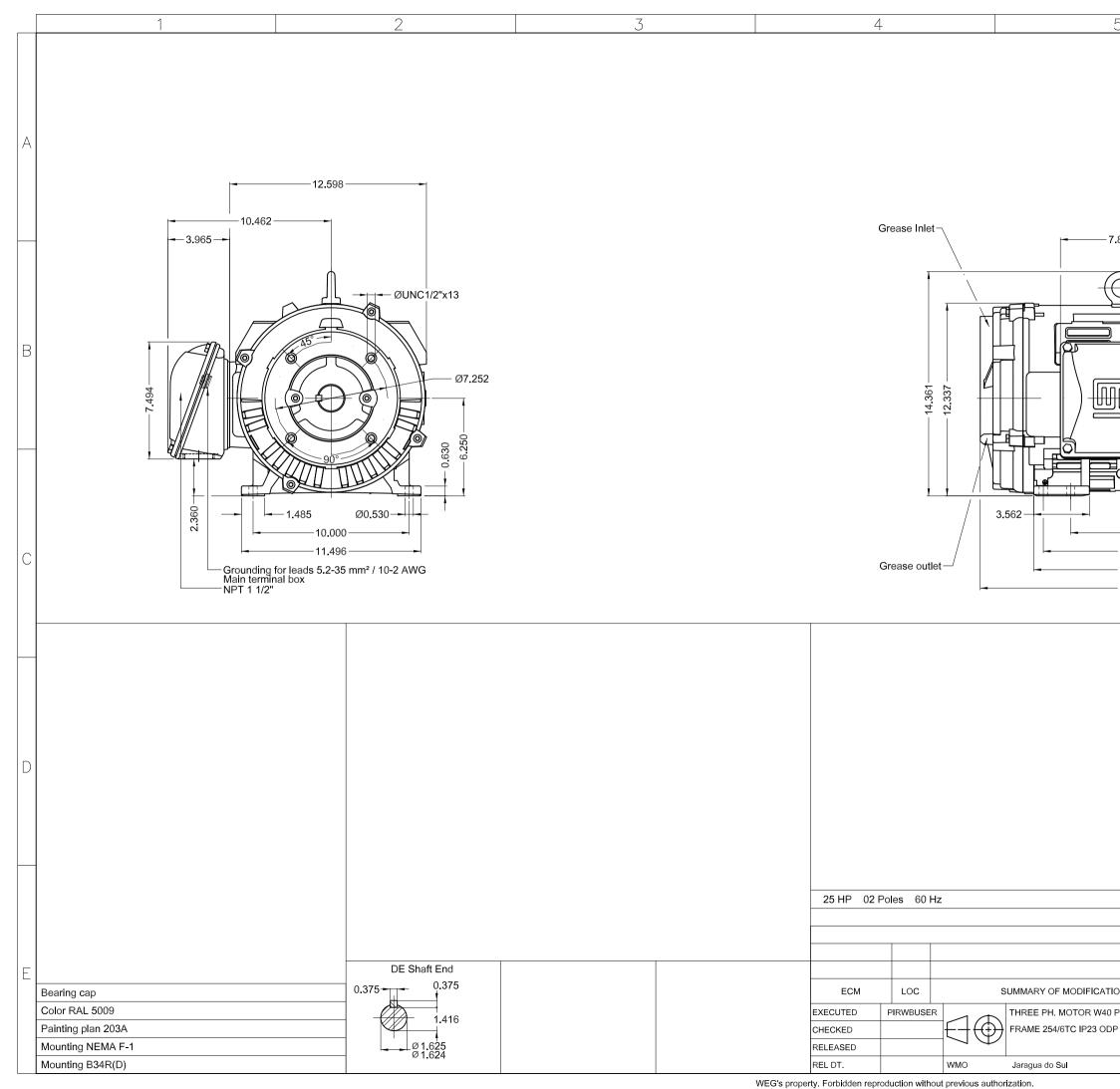
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