DATA SHEET

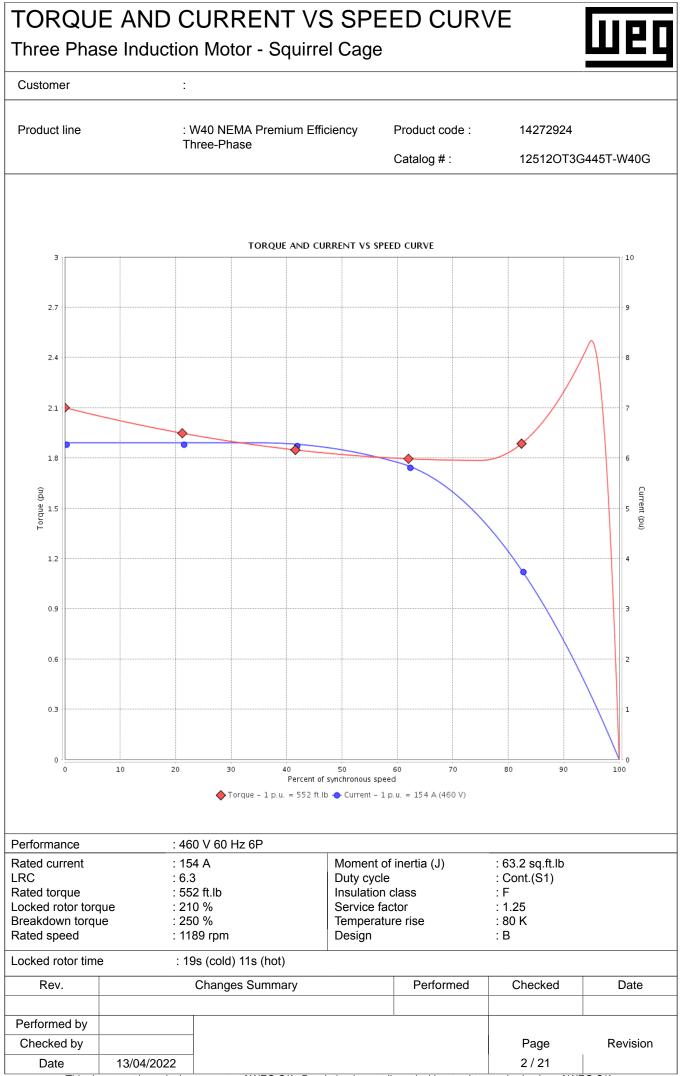
Three Phase Induction Motor - Squirrel Cage

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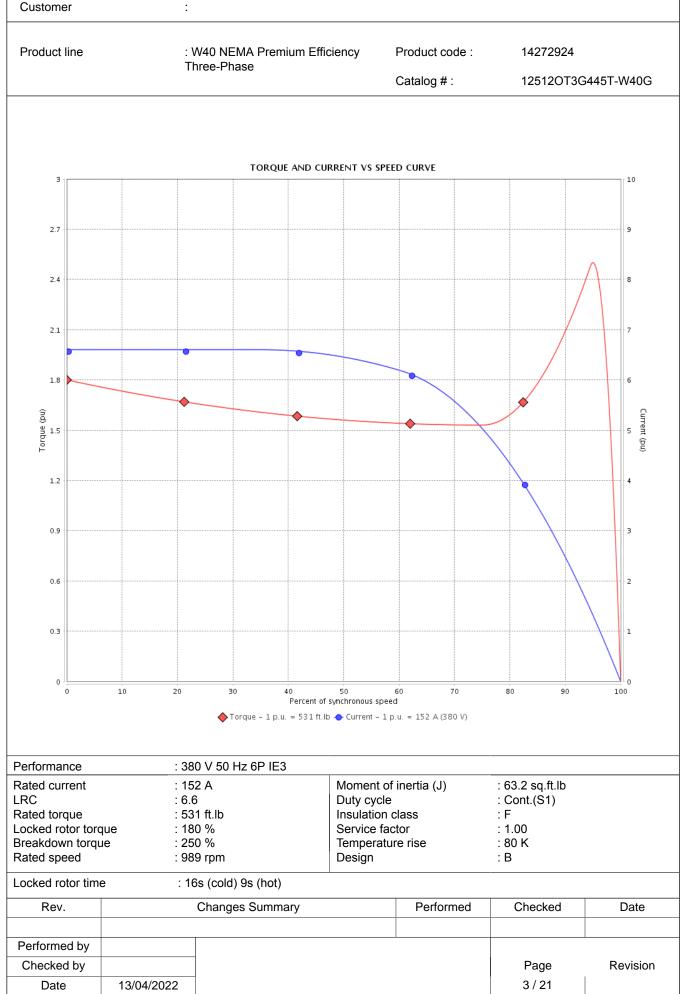
Product line		: W40 NEMA Premiun Three-Phase	ncy Pr	cy Product code :		14272924	
		Three-I hase		Ca	atalog # :	125120	T3G445T-W40G
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree		: 444/5T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 1389 lb	
Design	e	: IP23 : B		Moment o	rinenia (J)	: 63.2 so	J.ILID
Output [HP]		125		100	10	0	100
Poles		6		6	6		6
Frequency [Hz]		60		50	50		50
Rated voltage [V]		460		380	40		415
Rated current [A]		154		152	15		151
L. R. Amperes [A]		970		1003	104		1042
LRC [A]		6.3x(Code G)	6.6	Sx(Code H)	6.9x(Co		6.9x(Code J)
No load current [A		66.0		66.0	72.		78.0
Rated speed [RPN	/]	1189		989	99		991
Slip [%]		0.92		1.10	1.0		0.90
Rated torque [ft.lb		552		531	53		530
Locked rotor torqu		210		180	21		220
Breakdown torque	e [%]	250		250	28		300
Service factor		1.25		1.00	1.0		1.00
Temperature rise		80 K		80 K	80		80 K
Locked rotor time		19s (cold) 11s (hot)	16s (cold) 9s (hot) 16s (cold)	9s (hot)	16s (cold) 9s (hot)
Noise level ²		69.0 dB(A)					
	25%	94.4		94.1 94.2	93.		92.5
Efficiency (%)	50%	94.5			93.		93.1
	75%	95.0		94.6	94.		94.1
	100%	95.0		94.6	94.		94.6
	25%	0.37		0.37	0.3		0.30
Power Factor	50%	0.59		0.60	0.5		0.51
	75%	0.71		0.73	0.6		0.65
	100%	0.77		0.79	0.7	6	0.73
Desident			rive end	Foundation			
Bearing type			6319 C3 6314 C3		Max. traction: 3543 lbMax. compression: 4932 lb		
Sealing Lubrication inter	val	Bearing Seal Beari	ithout ing Seal 000 h		ression	: 4932 lb	
Lubricant amour			27 g				
Lubricant type	••	: Mobil Polyrex E					
Notes							
must be eliminate (1) Looking the m (2) Measured at 1	ed. notor from the 1m and with t	olerance of +3dB(A).	hich				s with sinusoidal stipulated in NEMA
(3) Approximate v manufacturing pro(4) At 100% of full	ocess.	t to changes after					
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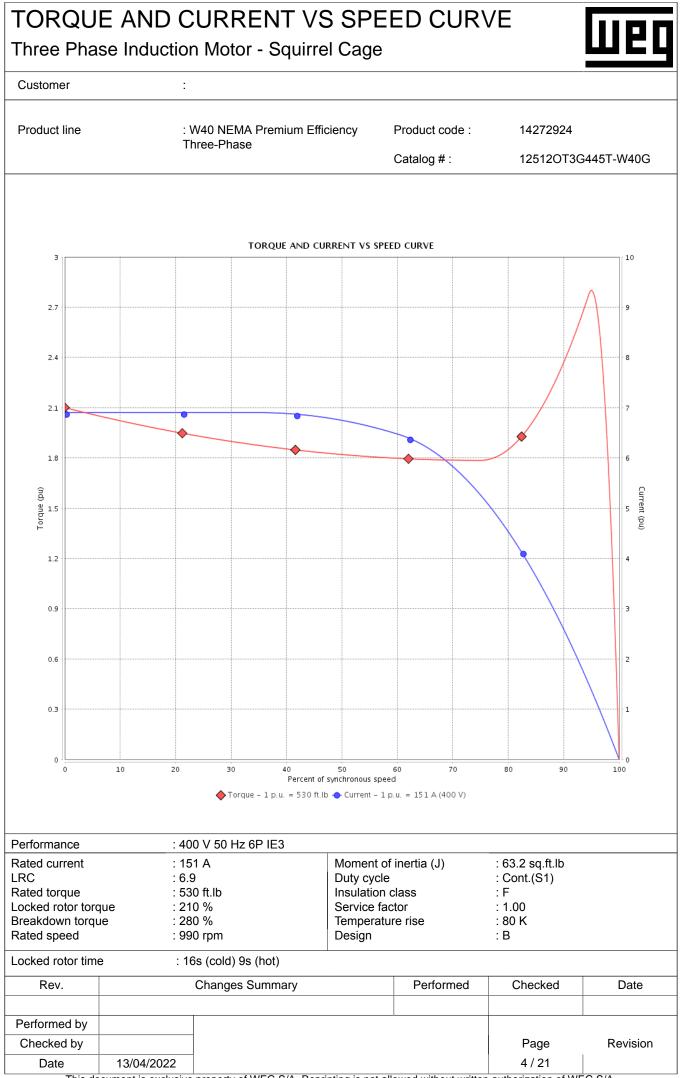
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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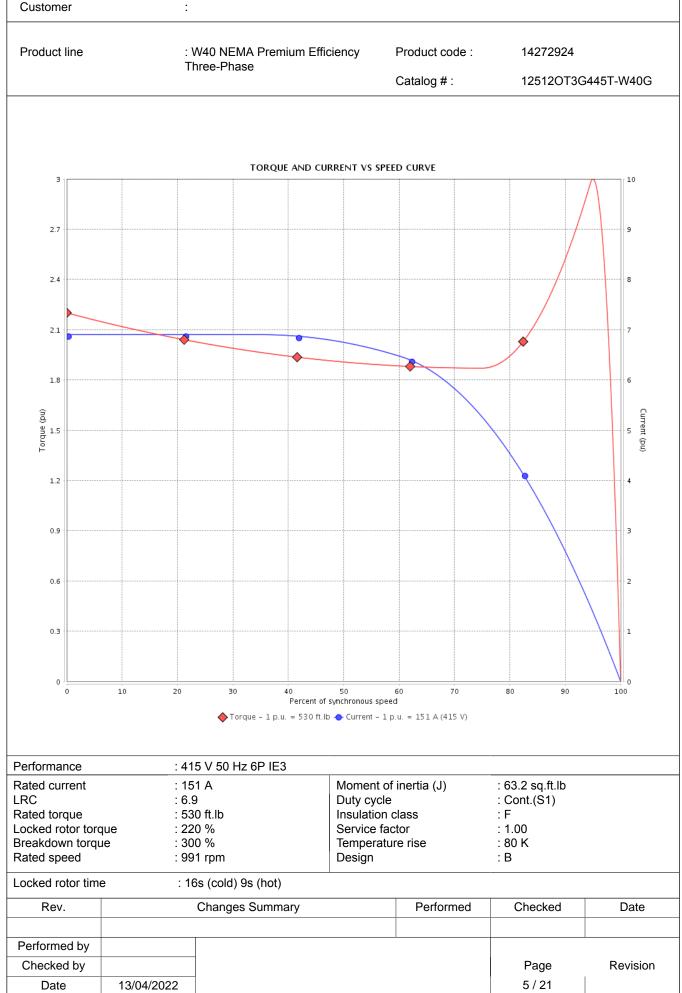
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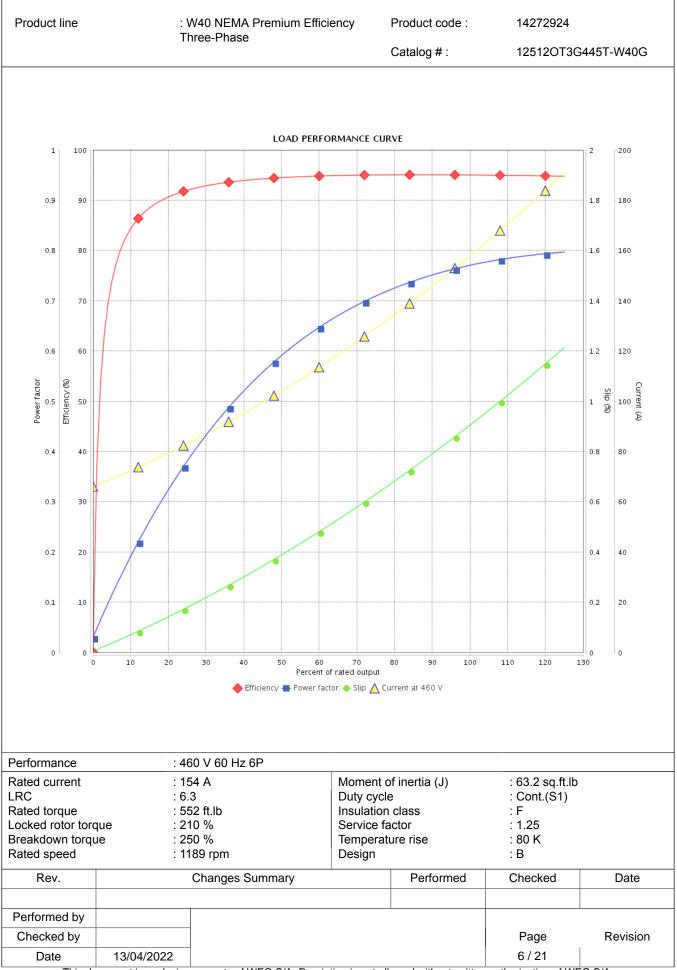
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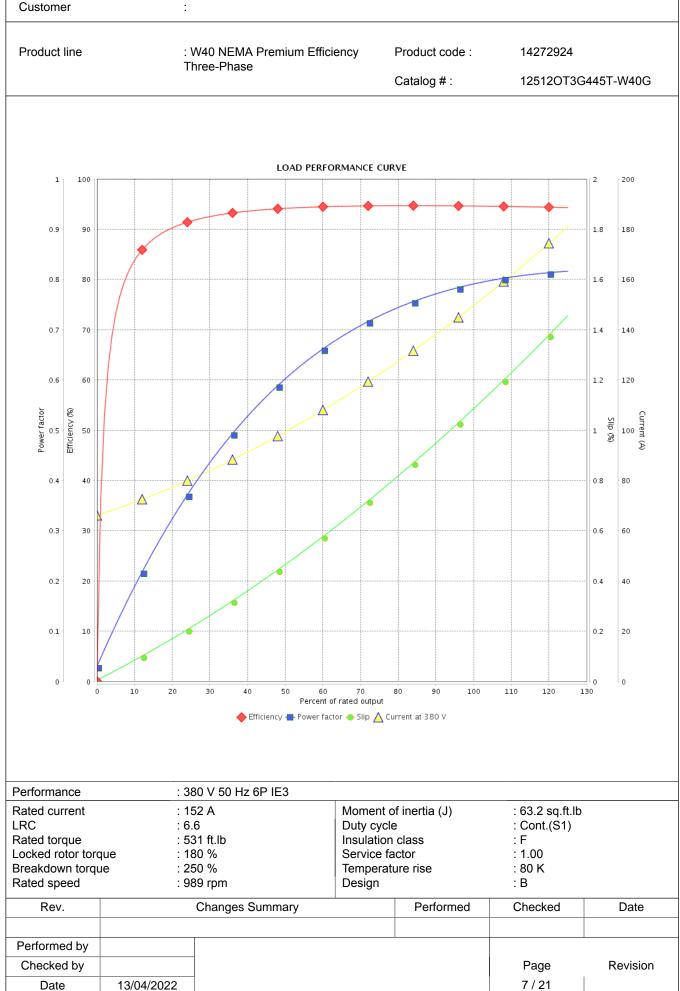


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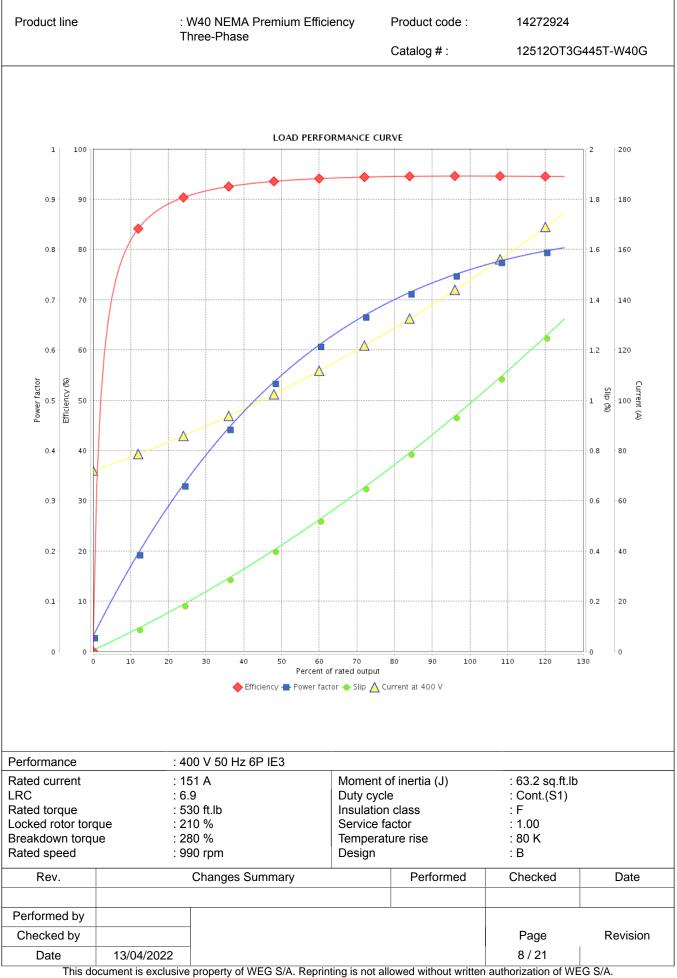
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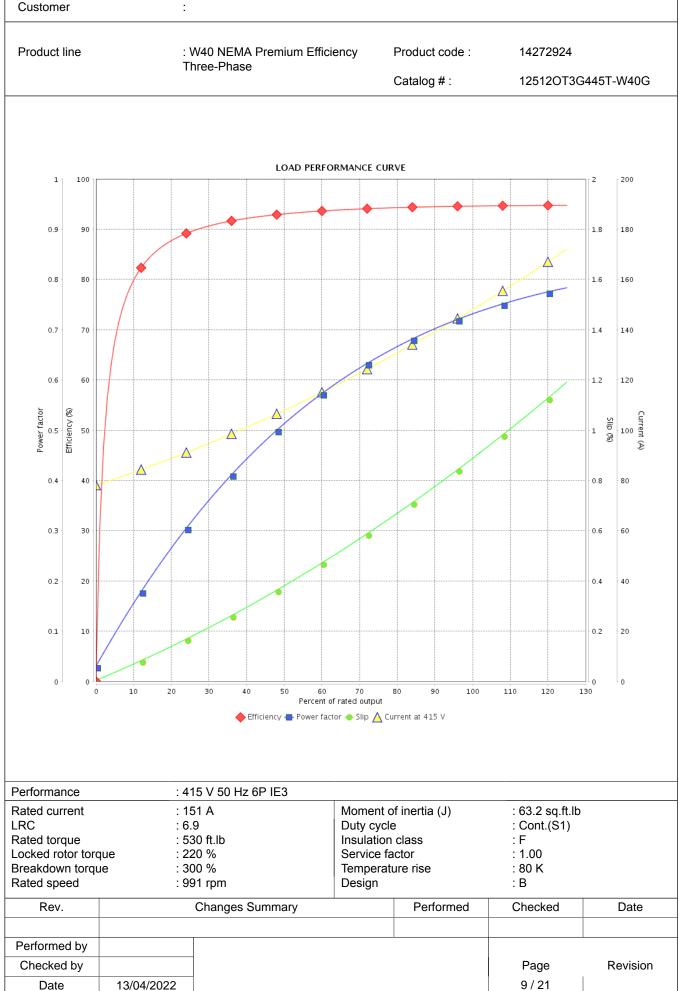


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THERMAL LIMIT CURVE

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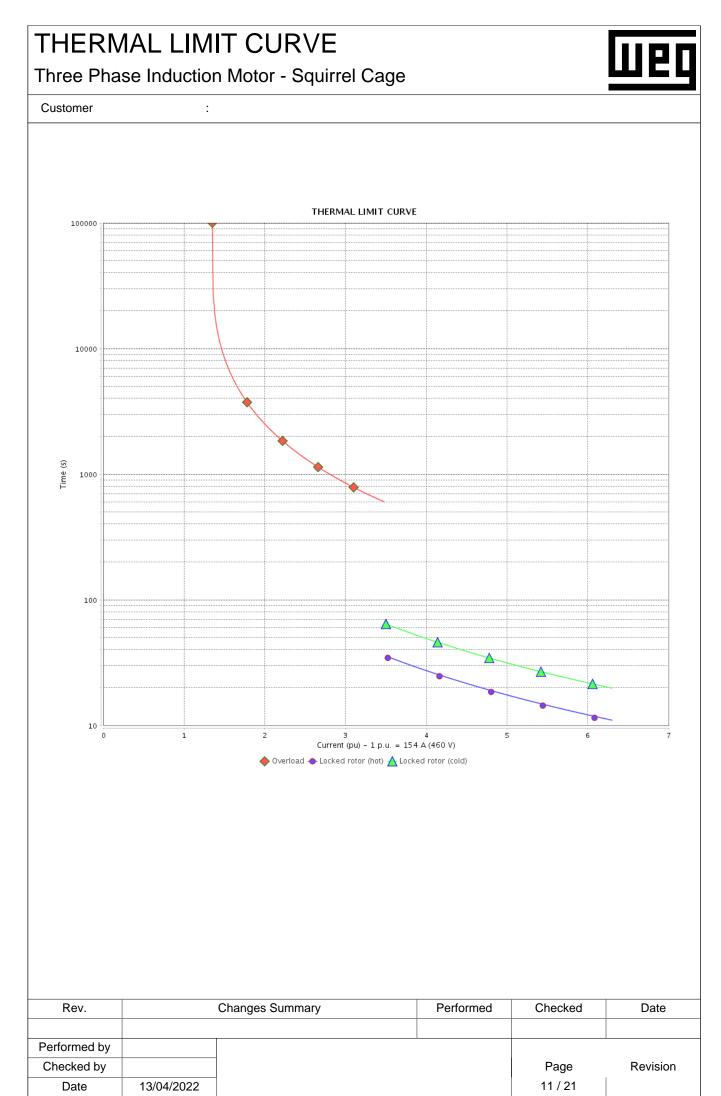
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272924	14272924		
				Catalog # :	12512OT3G	12512OT3G445T-W40G		
Performance		: 460 V 60 Hz 6P						
Rated current		: 154 A	Moment o	f inertia (J)	: 63.2 sq.ft.lb			
LRC Rated torque		: 6.3 Duty c			: Cont.(S1) : F			
Locked rotor torc		: 552 ft.lb Insulation : 210 % Service			: 1.25			
Breakdown torqu	le	: 250 %		Temperature rise				
Rated speed		: 1189 rpm	Design		: B			
Heating constant								
Cooling constant								
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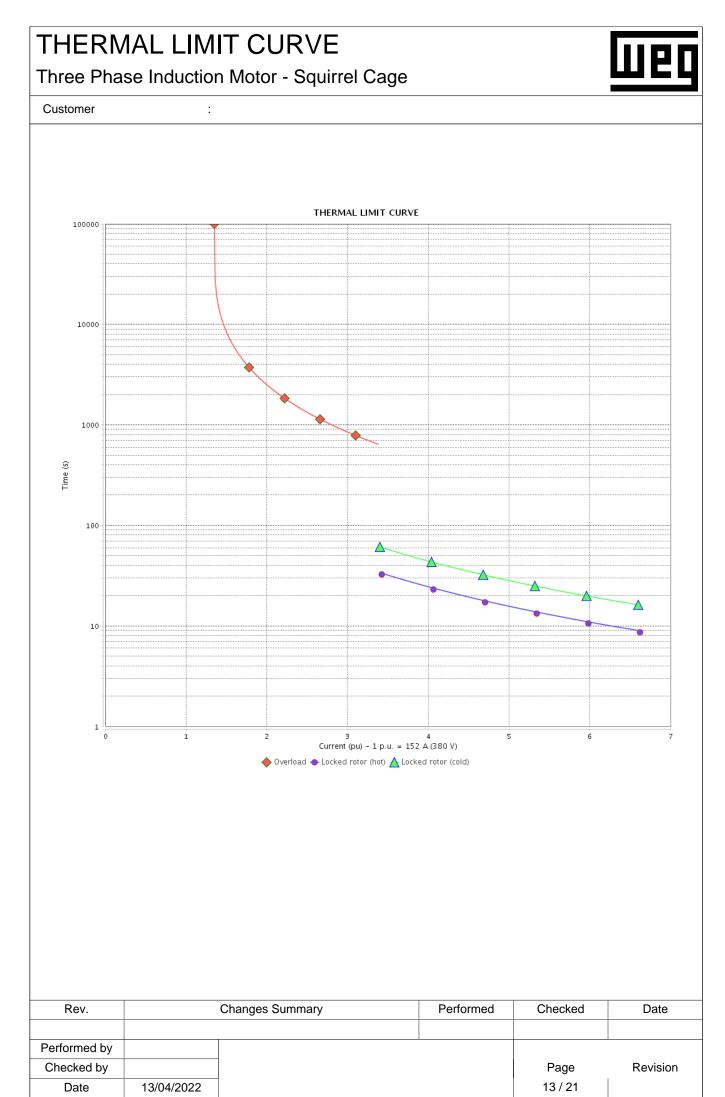
Product line	: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14272924	14272924		
			Catalog # :	12512OT3G	445T-W40G		
Performance	: 380 V 50 Hz 6P IE3						
Rated current LRC	: 152 A : 6.6	Moment o Duty cycle	of inertia (J) e	: 63.2 sq.ft.lb : Cont.(S1)			
Rated torque	: 531 ft.lb : 180 %	Insulation class Service factor		: F : 1.00			
Locked rotor torque Breakdown torque	: 250 %	Temperati		: 80 K			
Rated speed	: 989 rpm	Design		: B			
Heating constant							
Cooling constant Rev.	Changes Summary		Performed	Checked	Date		
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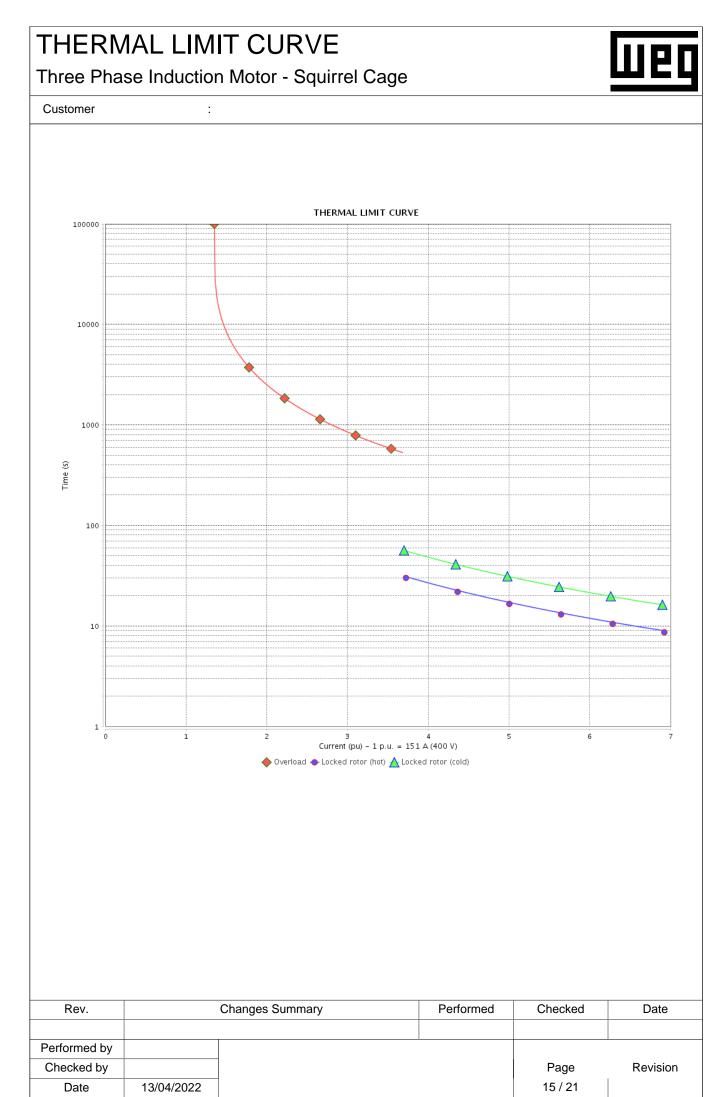
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				Catalog # :	12512OT3G445T-W40G			
Performance Rated current LRC		00 V 50 Hz 6P IE3 51 A .9	Moment o Duty cycle	f inertia (J)	: 63.2 sq.ft.lb : Cont.(S1)			
Rated torque Locked rotor torqu Breakdown torquo Rated speed	: 53 ue : 2 e : 28	30 ft.lb 10 % 80 % 90 rpm	Insulation Service fa Temperatu Design	class ctor	: F : 1.00 : 80 K : B			
Heating constant			Design					
Cooling constant				· · · · · ·				
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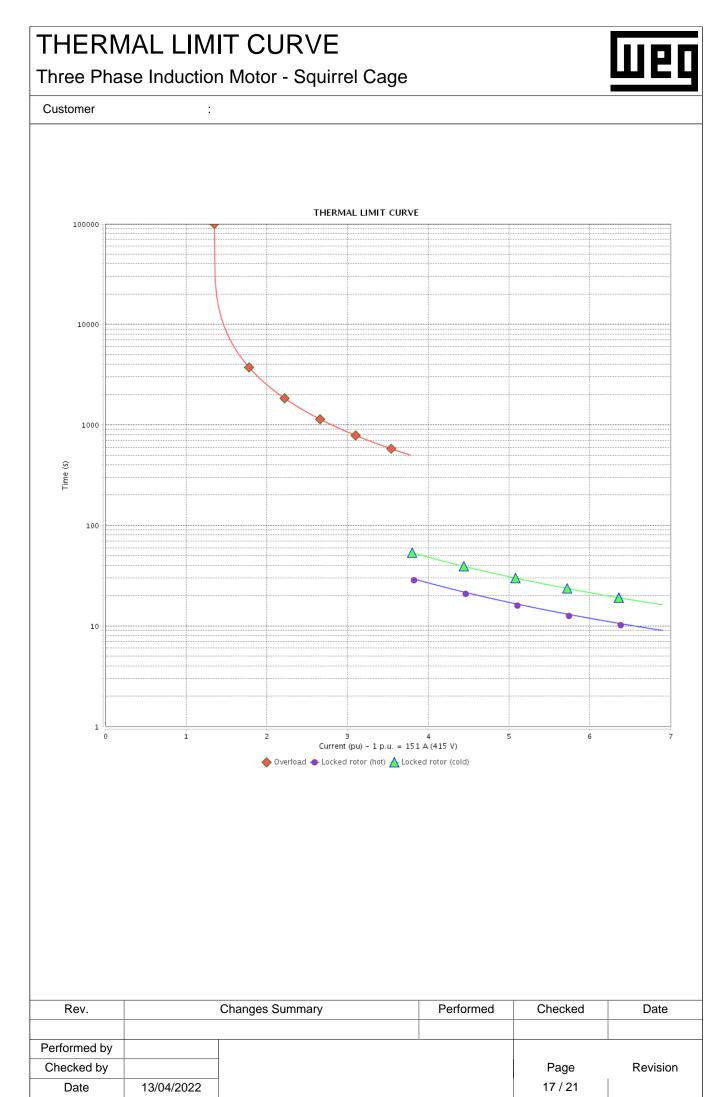
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272924		
	·			Catalog # :	12512OT3G4	445T-W40G	
						+431-W4UG	
Performance		15 V 50 Hz 6P IE3					
Rated current LRC		: 151 A Momen : 6.9 Duty cy		f inertia (J)	: 63.2 sq.ft.lb : Cont.(S1)		
Rated torque	: 5	30 ft.lb	Insulation	class	: F		
Locked rotor torque Breakdown torque	: 2	20 % 00 %	Service fa Temperatu		: 1.00 : 80 K		
Rated speed		91 rpm	Design		: B		
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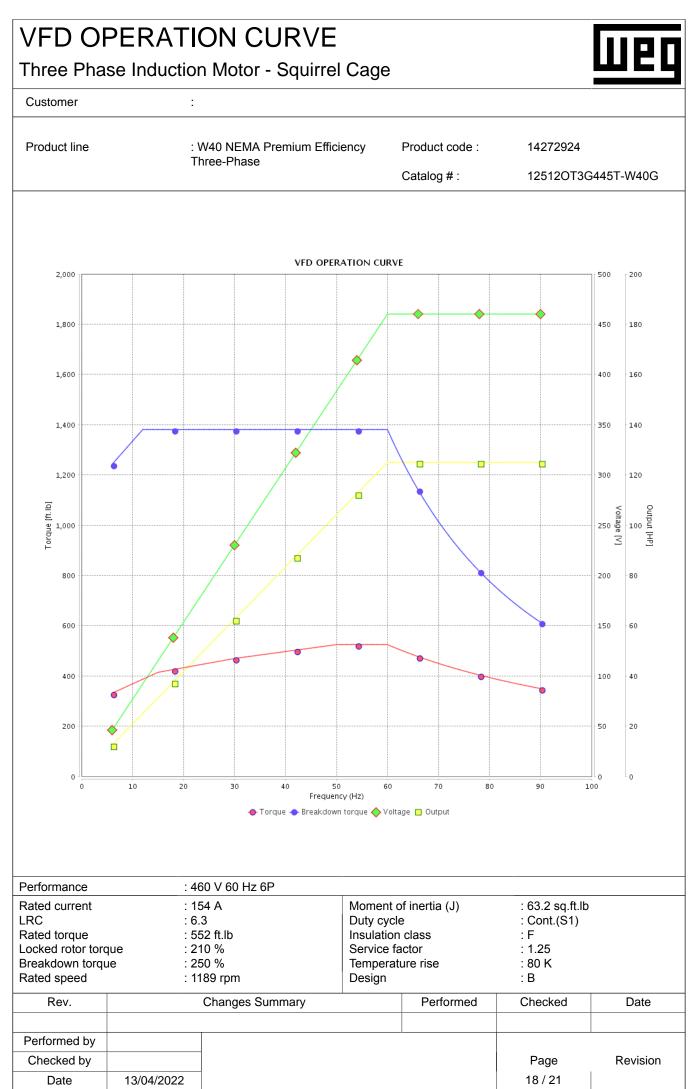
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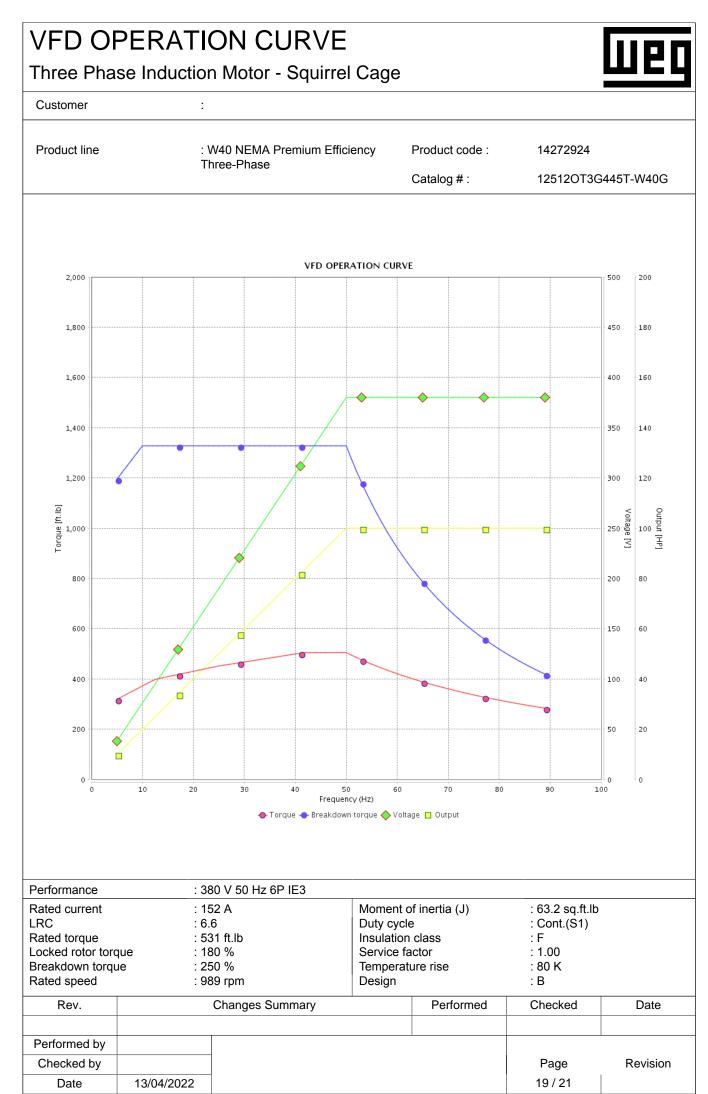
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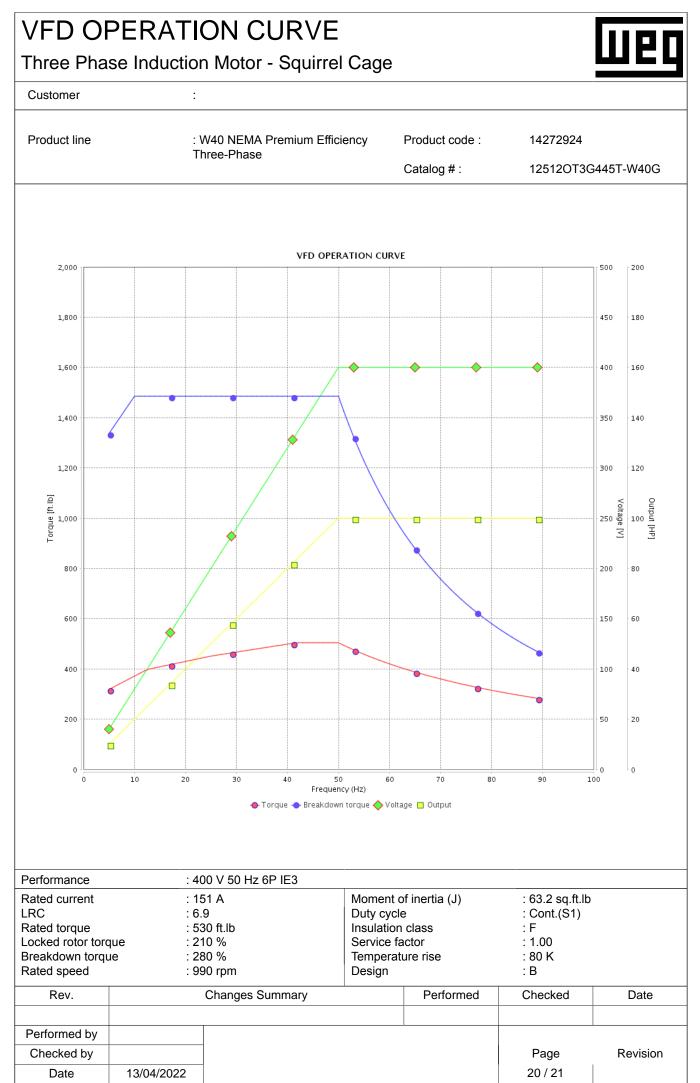


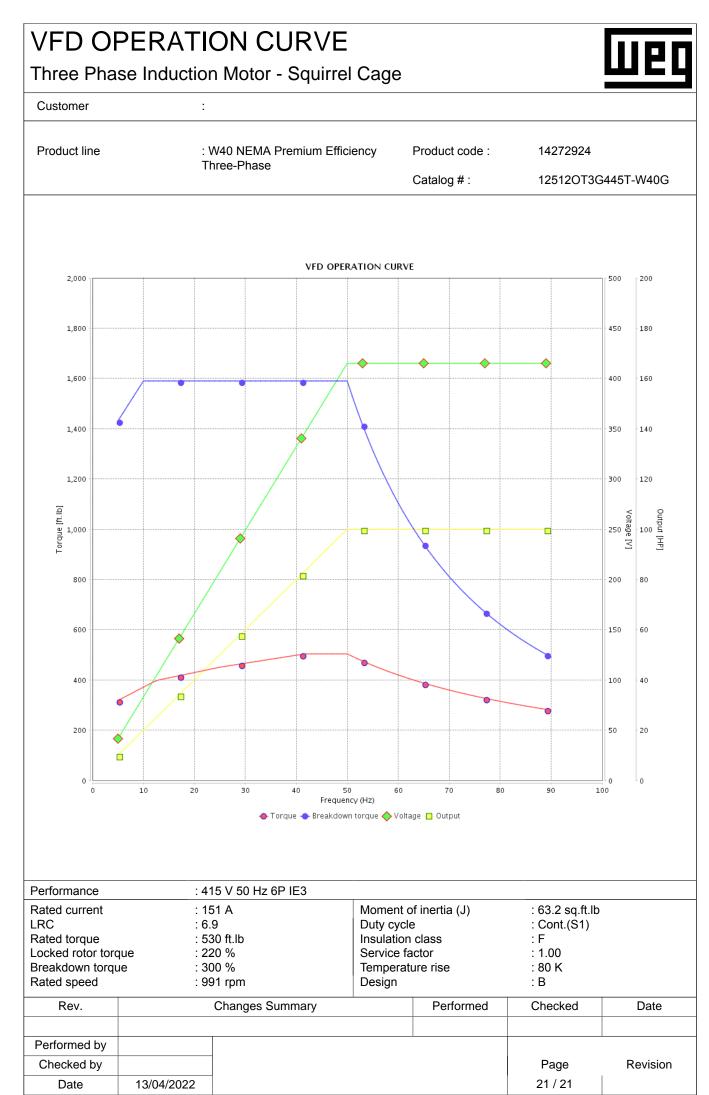


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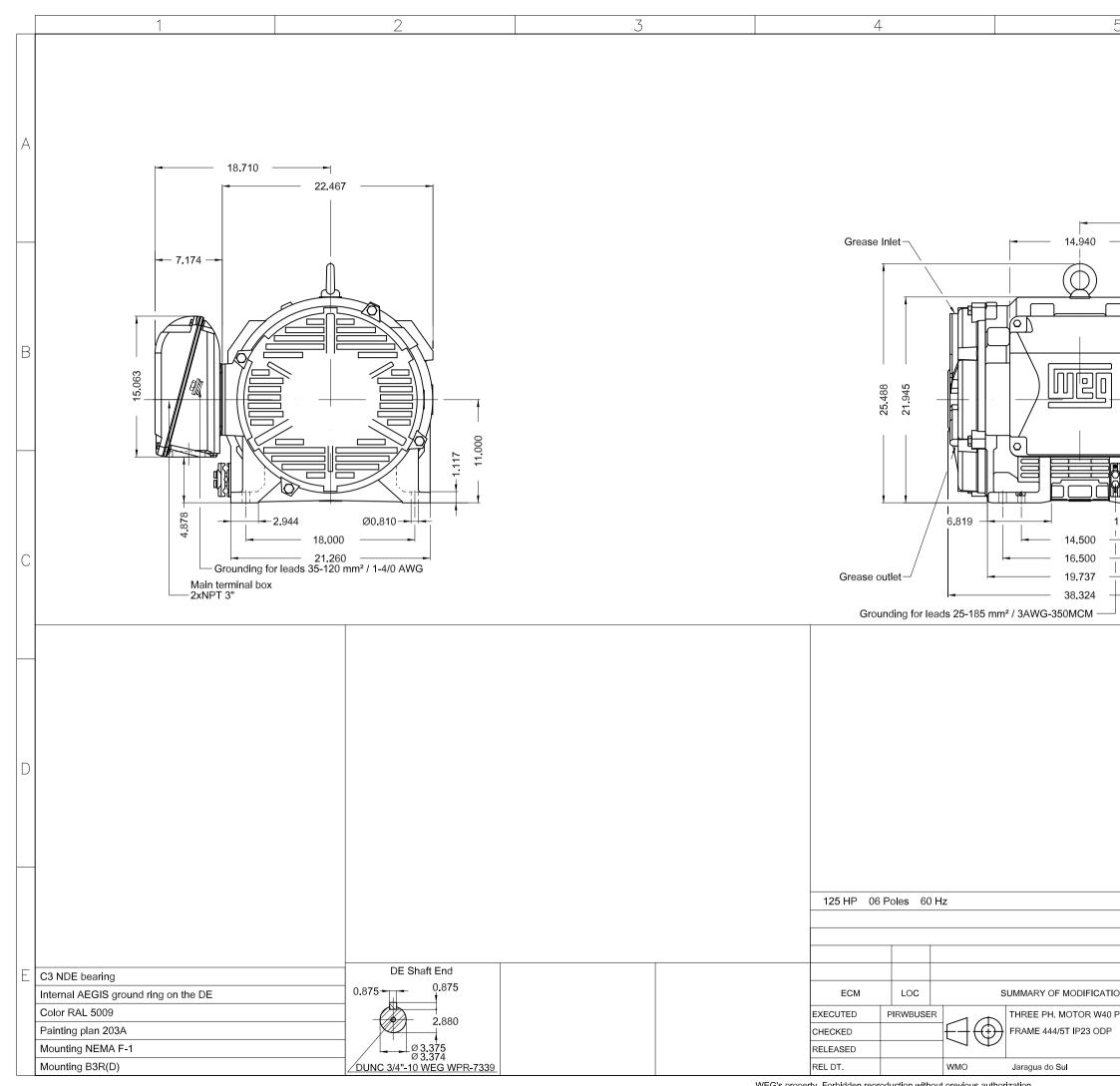


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