DATA SHEET

Three Phase Induction Motor - Squirrel Cage

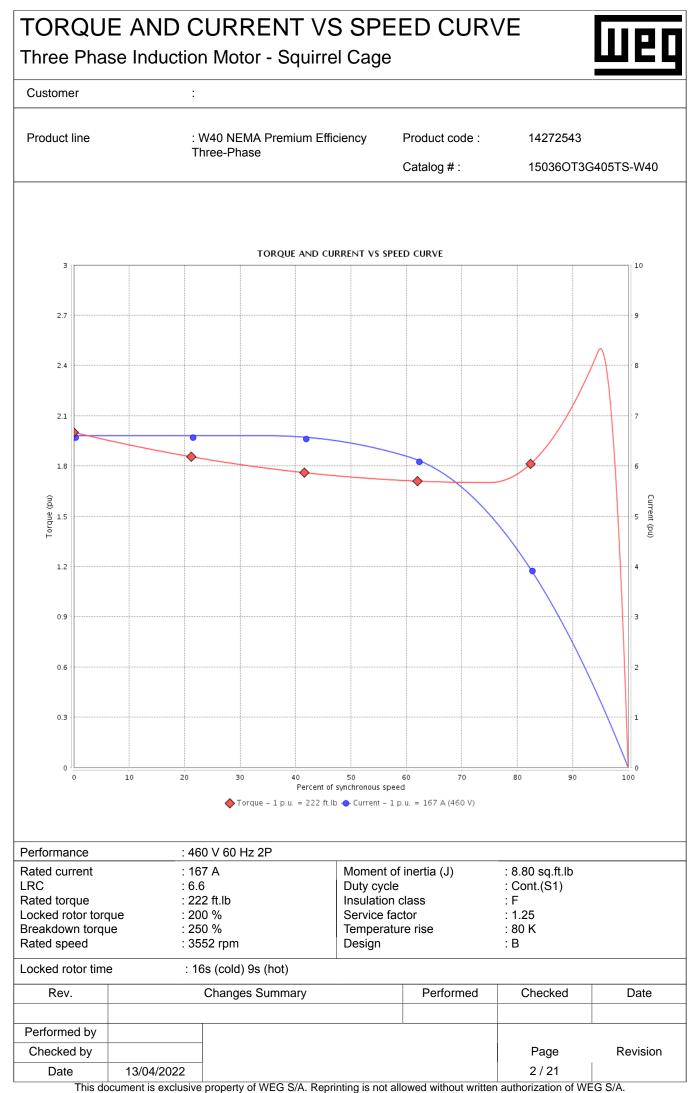
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Customer

Product line		: W40 NEMA Premiur	n Efficiei	ncy Pro	oduct code :	14272	543
		Three-Phase		Са	italog # :	15036	OT3G405TS-W40
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 404/5TS : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B		Cooling me Mounting Rotation ¹ Starting me Approx. we Moment of	ethod eight ³		(CW and CCW) t On Line o
Output [HP]		150		100	10	0	100
Poles		2		2	2		2
Frequency [Hz]		60		50	5		50
Rated voltage [V]		460		380	40		415
Rated current [A]		167		137	13	-	133
. R. Amperes [A]		1102		986	10		1117
.RC [A]		6.6x(Code G)	7 0	2x(Code H)	7.9x(C		8.4x(Code K)
No load current [A	1	40.0	1.2	43.8	43		48.9
		3552		43.8 2960	29		2965
Rated speed [RPN	n]						
Slip [%]	1	1.33		1.33	1.1		1.17
Rated torque [ft.lb]		222		177	17		177
ocked rotor torqu		200		229	25		270
Breakdown torque	[%]	250		290	33		360
Service factor		1.25		1.00	1.(1.00
Cemperature rise		80 K		80 K	80		80 K
ocked rotor time		16s (cold) 9s (hot)	21s (c	cold) 12s (hot	t) 19s (cold)	11s (hot)	18s (cold) 10s (hot)
Noise level ²		84.0 dB(A)					
	25%	93.5		93.3	92		91.8
Efficiency (%)	50%	93.6	93.7		93		92.7
	75%	94.1		94.4	94	.2	93.9
	100%	94.1		94.7	94	.7	94.7
	25%	0.58		0.51	0.4	17	0.43
	50%	0.79	0.76		0.7		0.65
Power Factor	75%	0.86		0.85	0.0		0.77
	100%	0.88		0.88	3.0		0.83
Bearing type Sealing Lubrication interv		: 6314 C3 621 : Without W Bearing Seal Bear : 14418 h 20	rive end 2 Z C3 ithout ing Seal 000 h	Max. tractic Max. comp	on	: 1472 : 2351	
Lubricant amoun	t		13 g				
Lubricant type		: Mobil Polyrex E	=M				
Notes							
must be eliminate (1) Looking the m (2) Measured at 1	ed. otor from the m and with to veight subject ocess.	cel the previous one, w shaft end. olerance of +3dB(A). t to changes after	hich				sts with sinusoidal stipulated in NEMA
Rev.		Changes Summary	,		Performed	Checke	d Date
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Checked by						Page	Revision
Date	13/04/2022					1 / 21	
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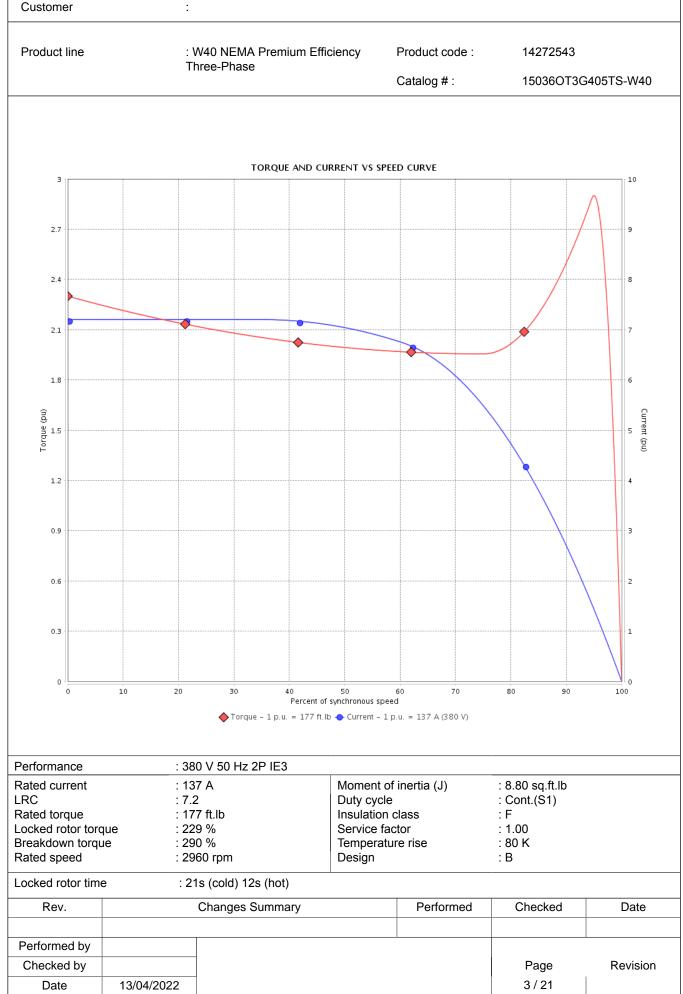


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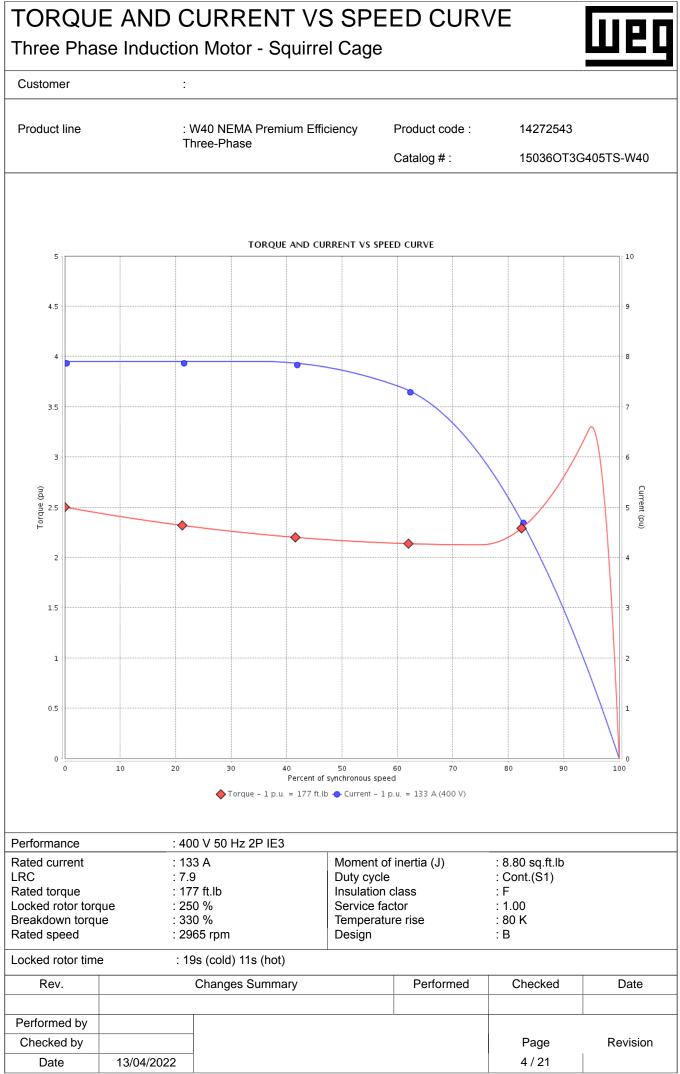
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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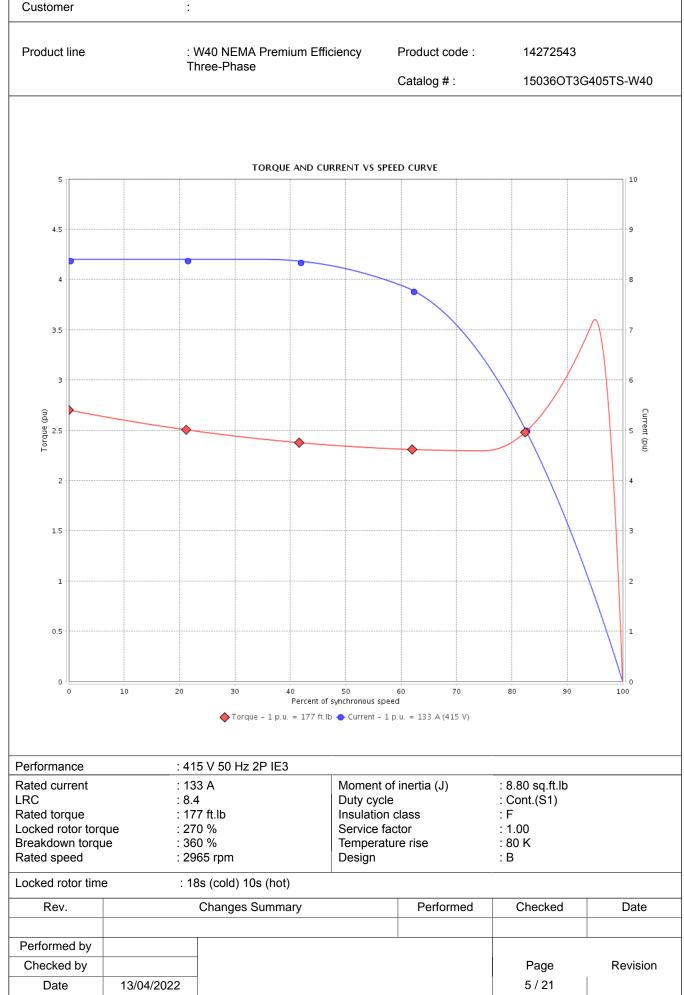
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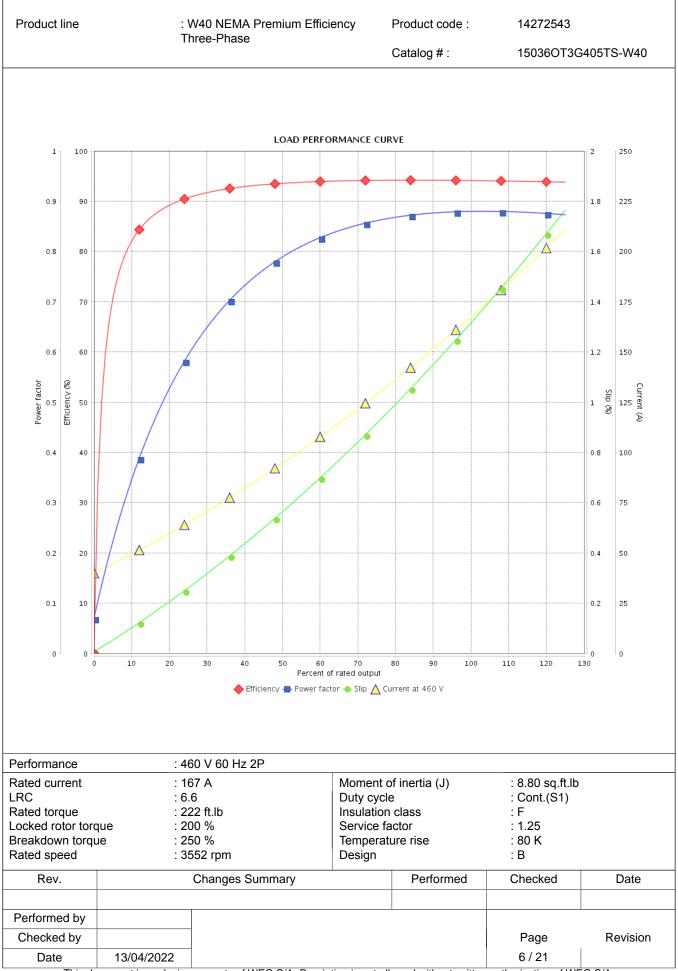
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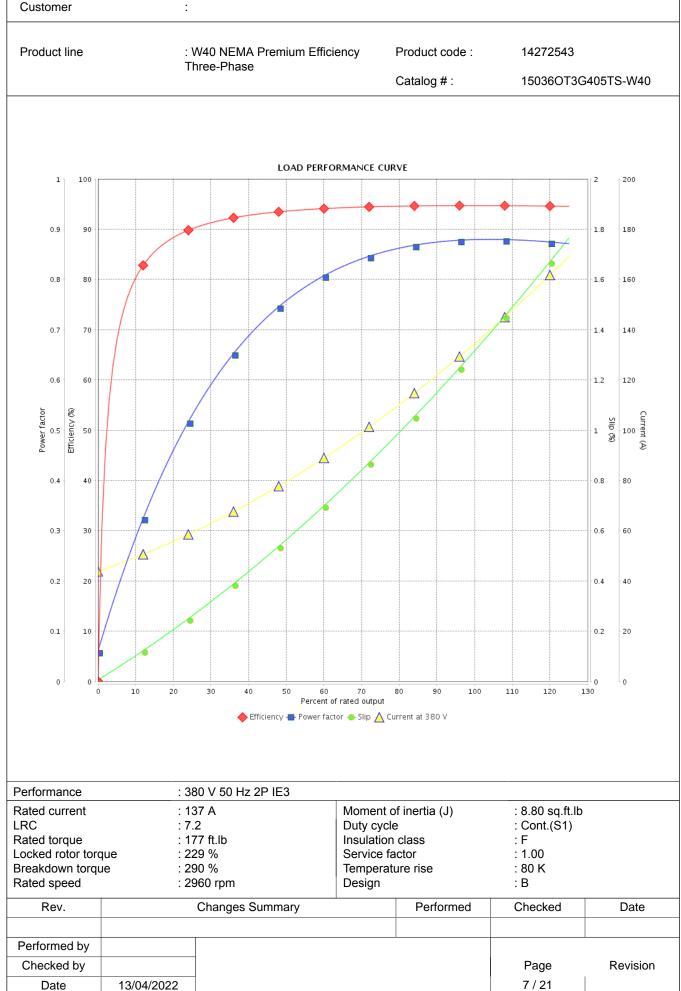


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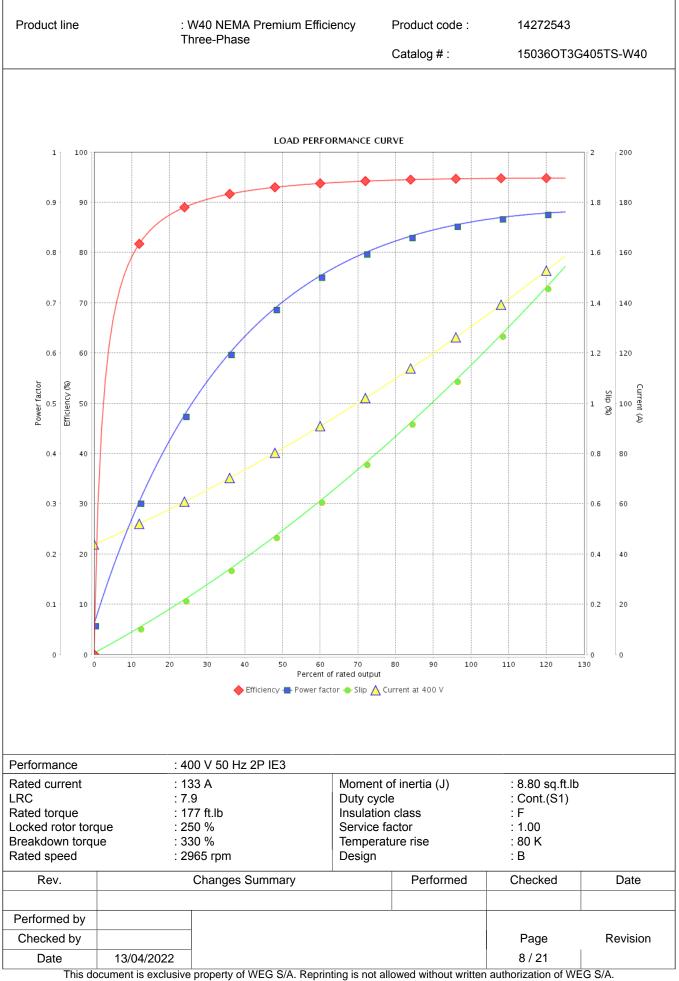
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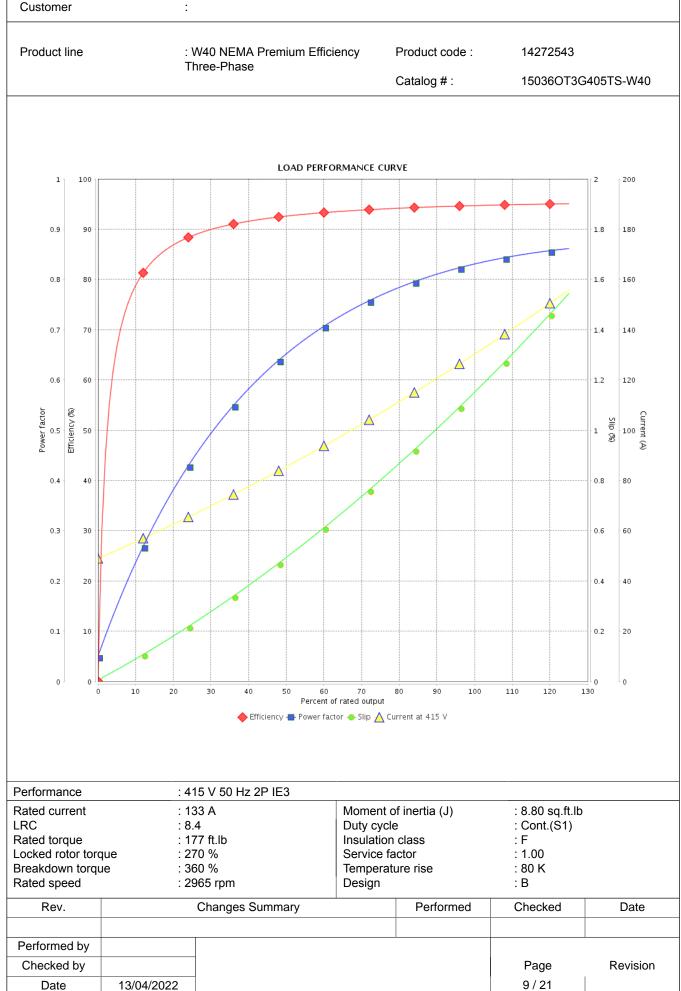


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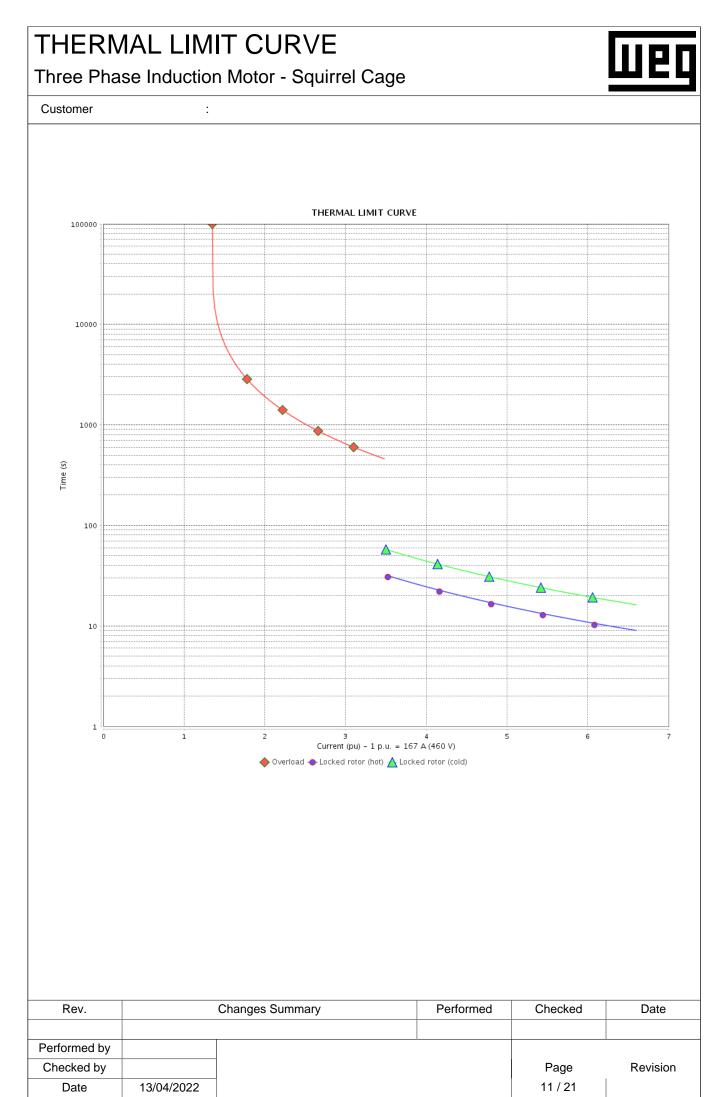
Date

Product line		: W40 NEMA Premium Efficiency		Product code :	14272543	
		Three-Phase		Catalog # :		405TS-W40
Performance		: 460 V 60 Hz 2P	Managet	finantia (1)	.000 # !!	
LRC Rated torque Locked rotor torque Breakdown torque		: 167 A : 6.6 : 222 ft.lb : 200 % : 250 % : 3552 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 8.80 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant						
Cooling constant						
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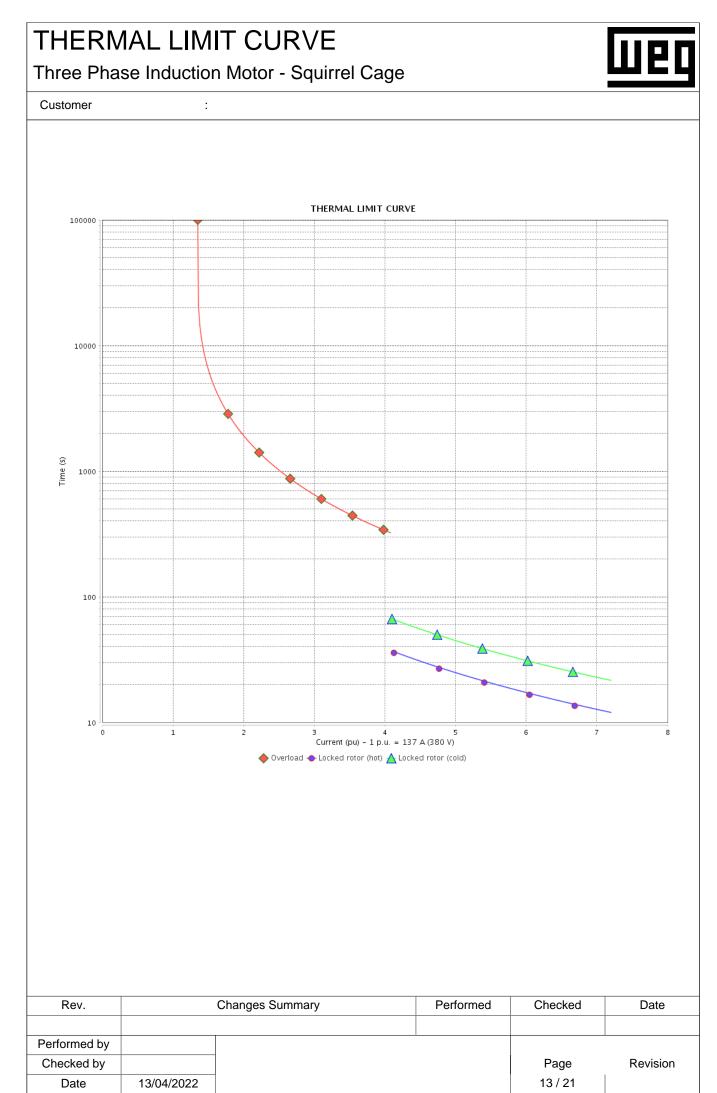
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272543	14272543 15036OT3G405TS-W40		
				Catalog # :	15036OT3G			
					. <u>.</u>			
Performance		80 V 50 Hz 2P IE3		.				
Rated current LRC	: 1; : 7.	37 A 2	Moment o Duty cycle	f inertia (J) e	: 8.80 sq.ft.lb : Cont.(S1)			
Rated torque		77 ft.lb 29 %	Insulation	class	: F : 1.00			
Breakdown torque : 290		90 %	Service factor Temperature rise		: 80 K			
Rated speed		960 rpm	Design		: B			
Heating constant								
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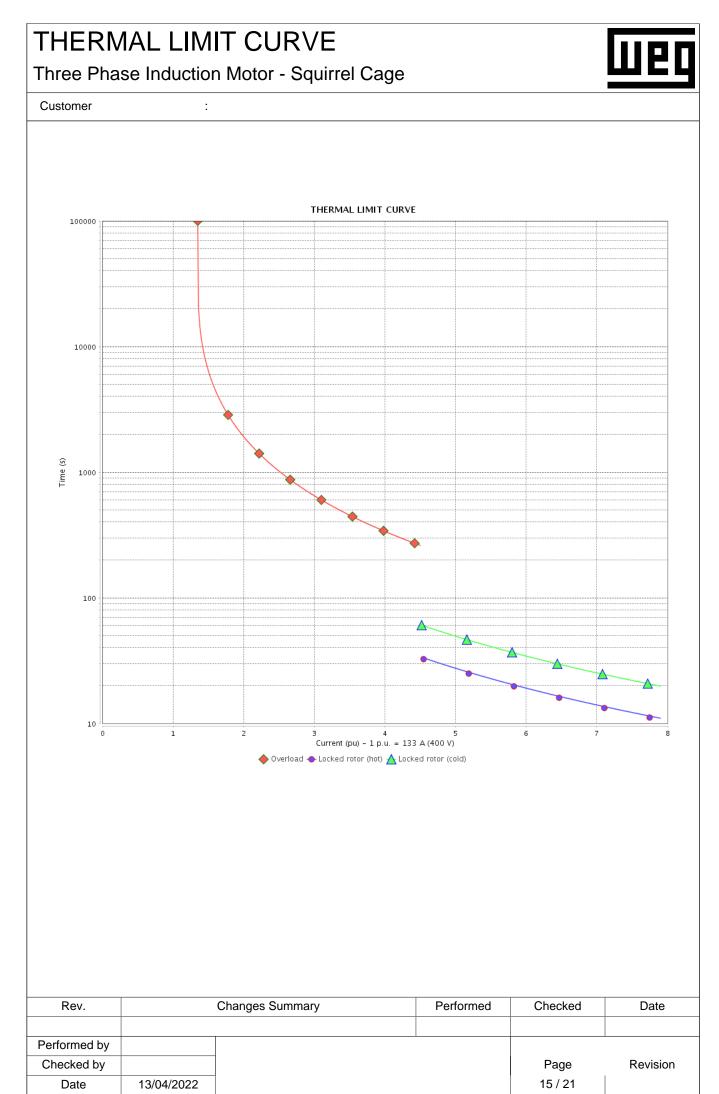
Product line		: W40 NEMA Premium Efficiency Three-Phase					
				Product code :	14272543		
				Catalog # :	15036OT3G	405TS-W40	
Performance		00 V 50 Hz 2P IE3	N4	fin antia (I)			
Rated current : 133 A LRC : 7.9		.9	Moment of inertia (J) Duty cycle		: 8.80 sq.ft.lb : Cont.(S1)		
Rated torque: 177 ft.lbLocked rotor torque: 250 %			Insulation class Service factor		: F : 1.00		
Breakdown torque : 330 %		Temperature rise		: 80 K			
Rated speed	: 2	965 rpm	Design		: B		
Heating constant Cooling constant							
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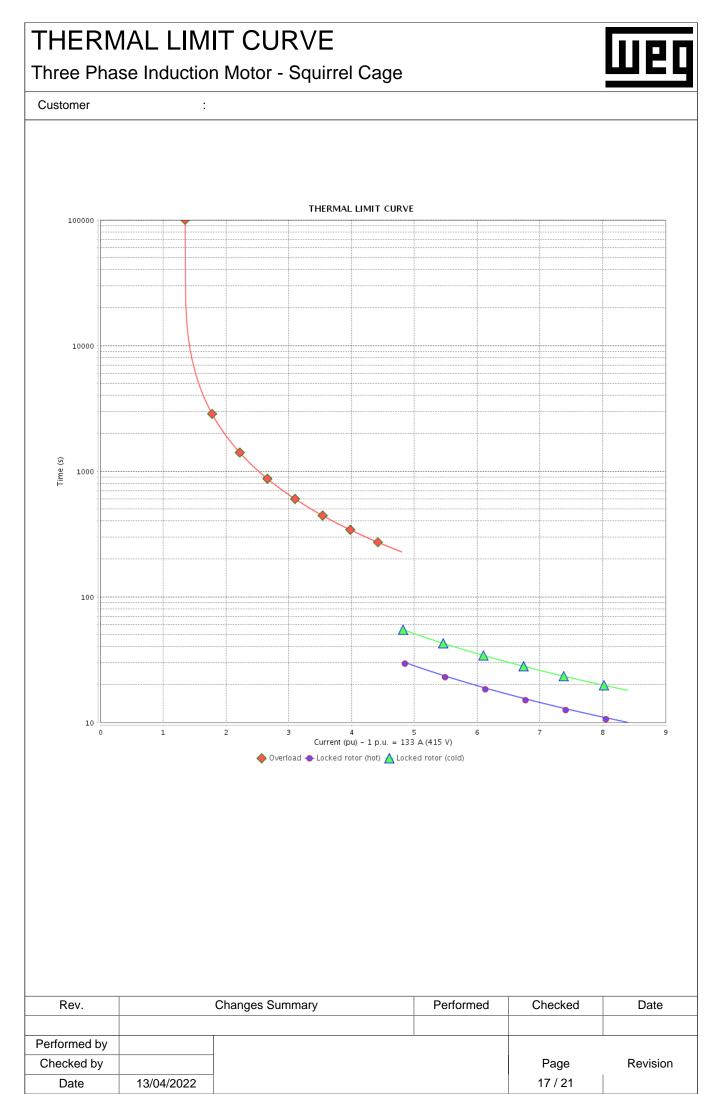
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272543	
				Catalog # :	15036OT3G4	15036OT3G405TS-W40
Performance		415 V 50 Hz 2P IE3				
		: 133 A Mon : 8.4 Duty		of inertia (J) e	: 8.80 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb Insulat		class	: F : 1.00	
Breakdown torque		360 % Tempera			: 80 K	
Rated speed		2965 rpm	Design		: B	
Heating constant						
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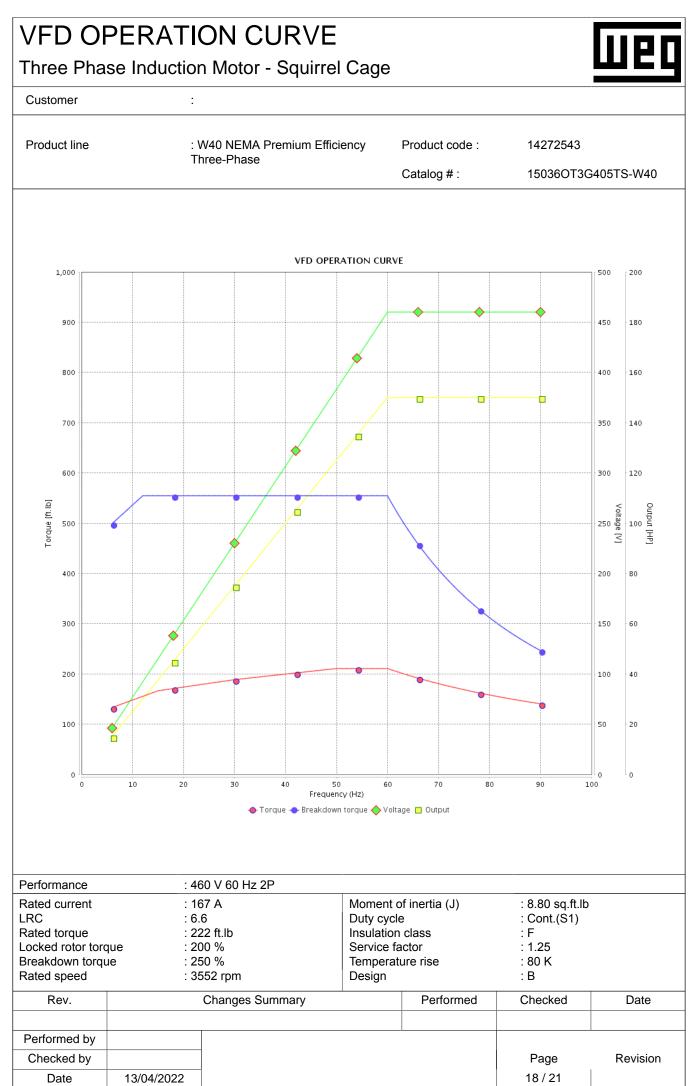
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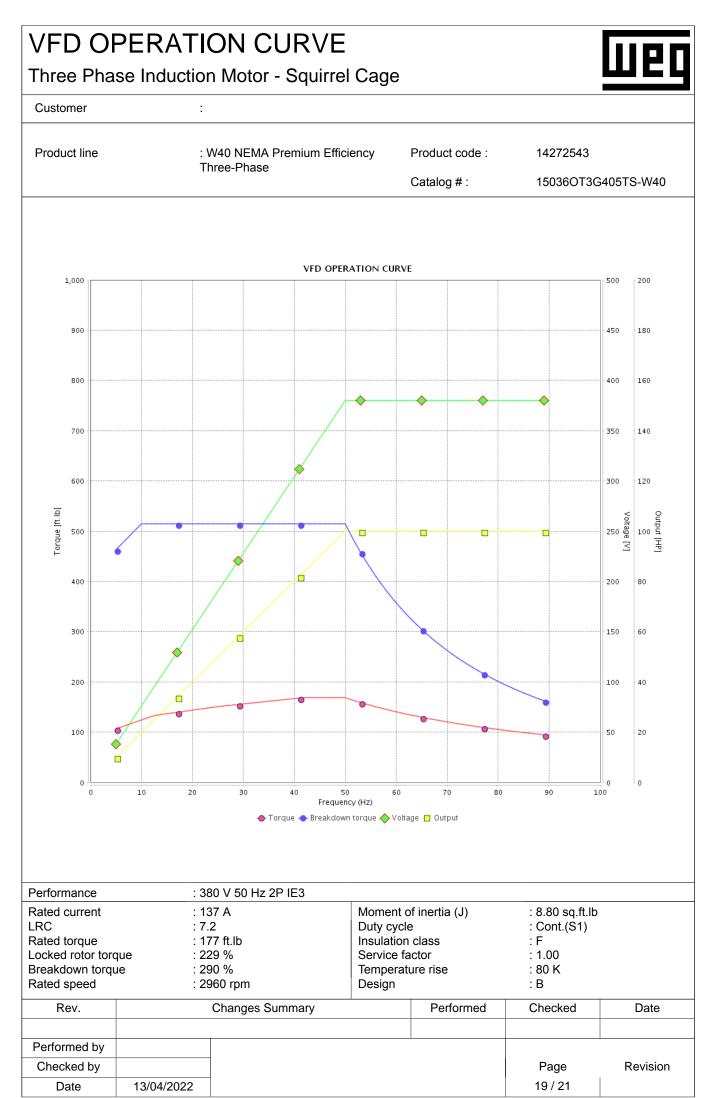
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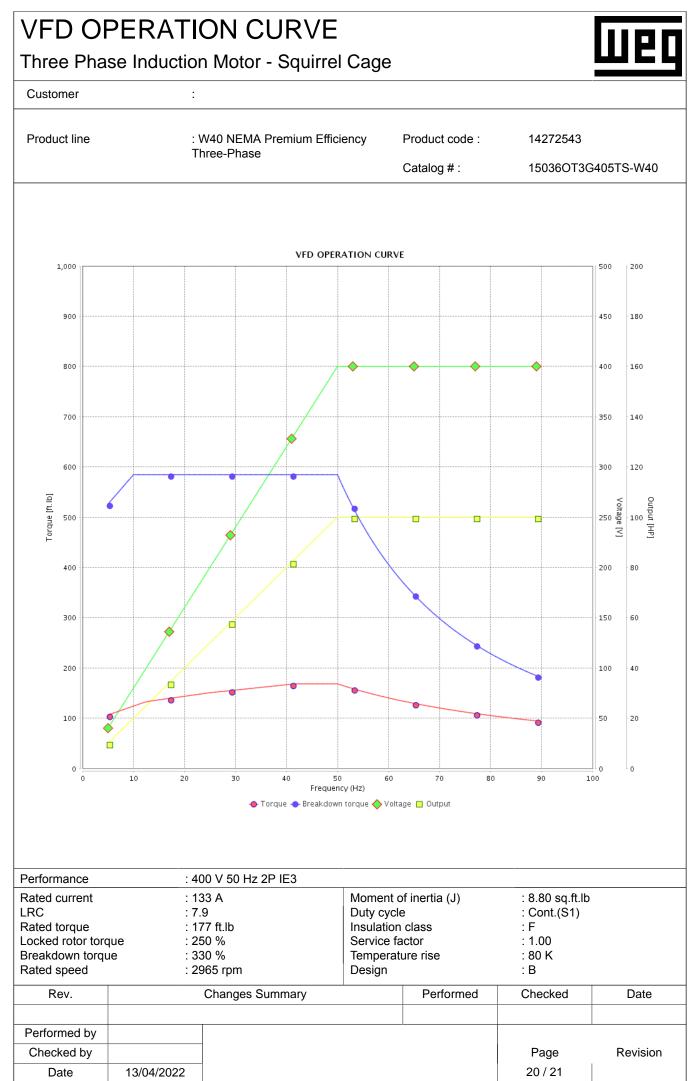




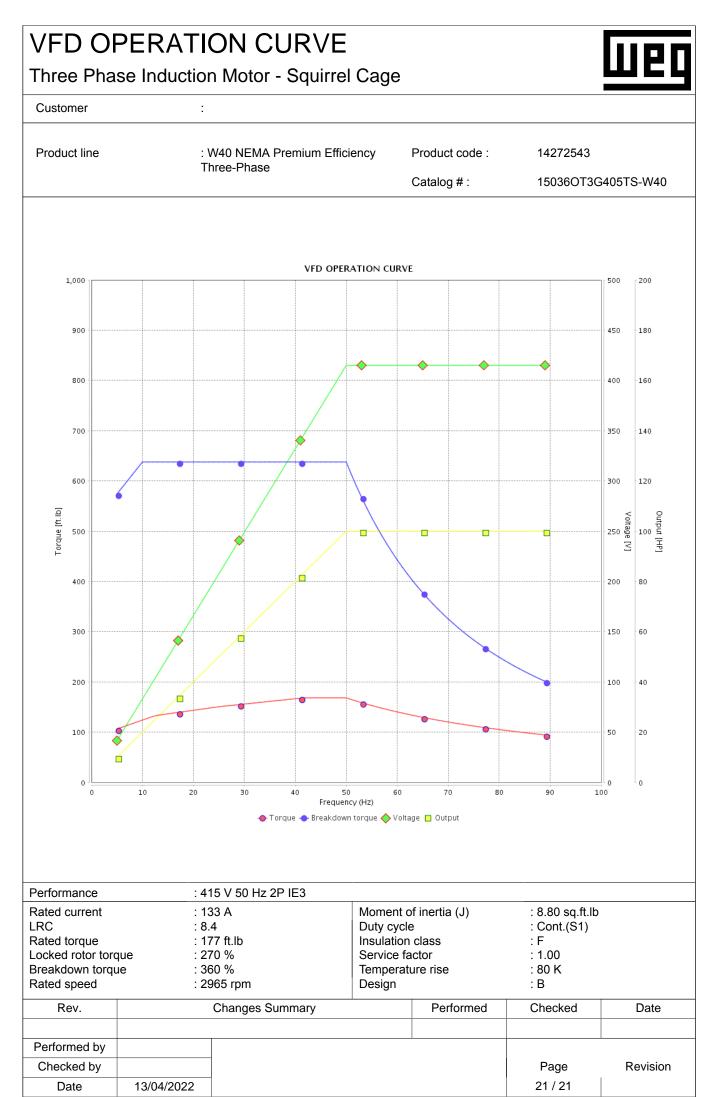
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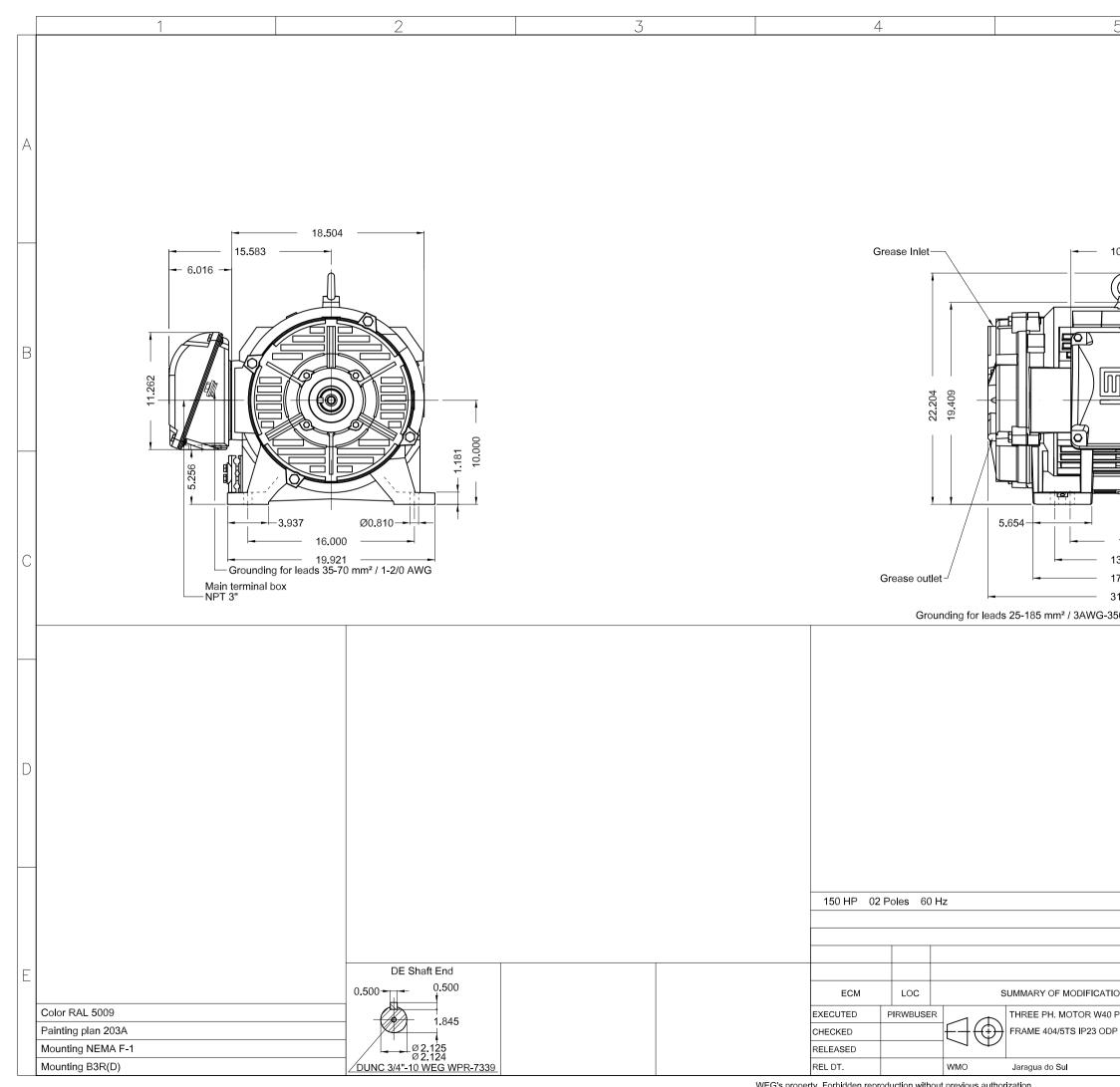
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