DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Product line		: W40 NEM Three-Phas	A Premium E	fficiency	Product code	e: 13	346174	
			e		Catalog # :	50	036OT3G447	7/9TS-W40
Frame		: 447/9TS			g method		C01 - ODP	
Insulation class		: F		Mount		: F	-	
Duty cycle		: Cont.(S1)		Rotatio			Both (CW and	
Ambient tempera	ature	: -20°C to +			g method		Direct On Line	9
Altitude		: 1000 m.a.	s.l.		x. weight ³		203 lb	
Protection degre	e	: IP23		Mome	nt of inertia (J)) :4	6.9 sq.ft.lb	
Design		: A						
Output [HP]		500	400	400	400	450	450	450
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		536	529	508	495	582	559	545
. R. Amperes [A]		3806	3756	4013	4356	3667	3913	4251
_RC [A]		7.1x(Code	7.1x(Code	7.9x(Code H)	8.8x(Code J)	6.3x(Code F)	7.0x(Code	7.8x(Code I
		G)	G)				G)	
No load current [A		120	115	130	150	115	130	150
Rated speed [RPN	<u>رار</u>	3570	2970	2975	2975	2965	2970	2975
Slip [%]		0.83	1.00	0.83	0.83	1.17	1.00	0.83
Rated torque [ft.lb		735	707	706	706	797	796	794
Locked rotor torqu		190	200	229	250	180	200	220
Breakdown torque	; [%]	250	250	270	290	220	240	260
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		25s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		14s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		87.0 dB(A)	81.0 dB(A)	81.0 dB(A)	81.0 dB(A)	81.0 dB(A)	81.0 dB(A)	81.0 dB(A)
	25%	95.7	93.6	93.5	93.5	94.2	94.2	94.2
Efficiency (0/)	50%	95.8	94.3	94.2	94.2	95.0	95.0	95.0
Efficiency (%)	75%	96.2	95.2	95.2	95.2	95.0	95.0	95.0
	100%	96.2	95.8	95.8	95.8	95.8	95.8	95.8
	25%	0.62	0.61	0.57	0.53	0.65	0.60	0.57
Power Factor	50%	0.84	0.82	0.79	0.77	0.85	0.82	0.80
FOWER FACIO	75%	0.89	0.89	0.87	0.86	0.89	0.88	0.87
	100%	0.90	0.90	0.89	0.88	0.90	0.89	0.88
	4	Drive end	Non drive	end Founda	ation loads	1	1	1
Bearing type		: 6314 C3			action	• 44	104 lb	
Sealing		: Without	Witho		ompression		607 lb	
		Bearing S						
Lubrication interv	val	: 14418 h	•					
Lubricant amour		: 27 g	27 ç	1				
Lubricant type			I Polyrex EM					
			, 					
Notes								
				1				
This revision repl		ncel the previo	us one, which		are average va			
must be eliminate					supply, subject	t to the tolerar	nces stipulate	d in NEMA
(1) Looking the m				MG-1.				
(2) Measured at 1								
(3) Approximate \		ct to changes a	atter					
manufacturing pro								
(4) At 100% of ful		Changes	Summany		Dorforma	d Cha		Data
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 Date
 12/04/2022
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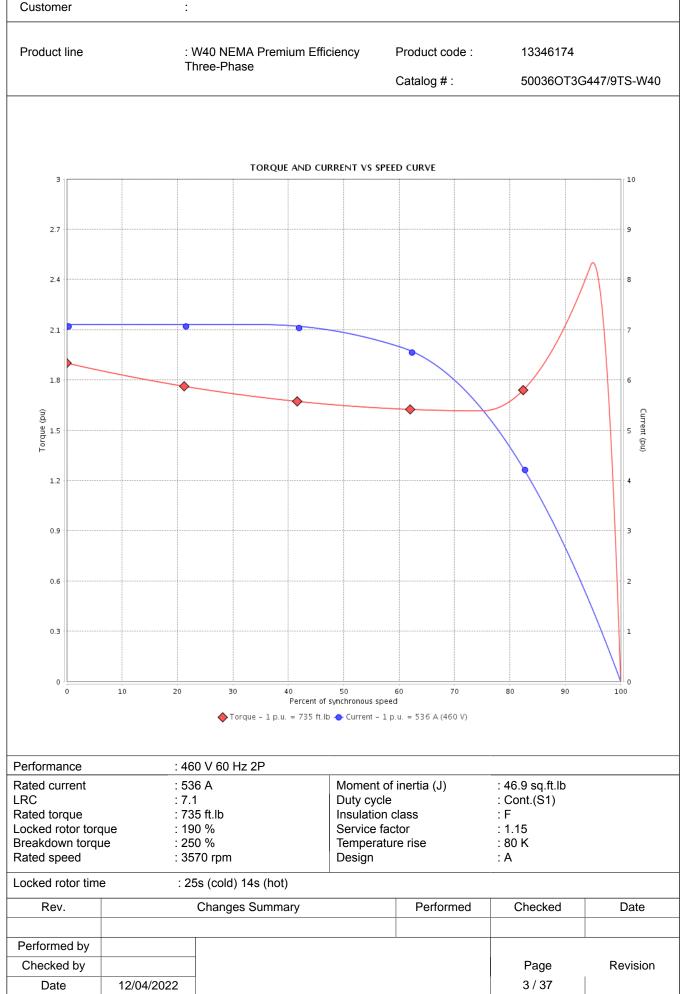
Customer

ID	Application	Thermal protection Type	Quantity	Soneing T	emperature
				_	
1	Winding	Thermistor - 2 wires	1 x Phase	15	5 °C
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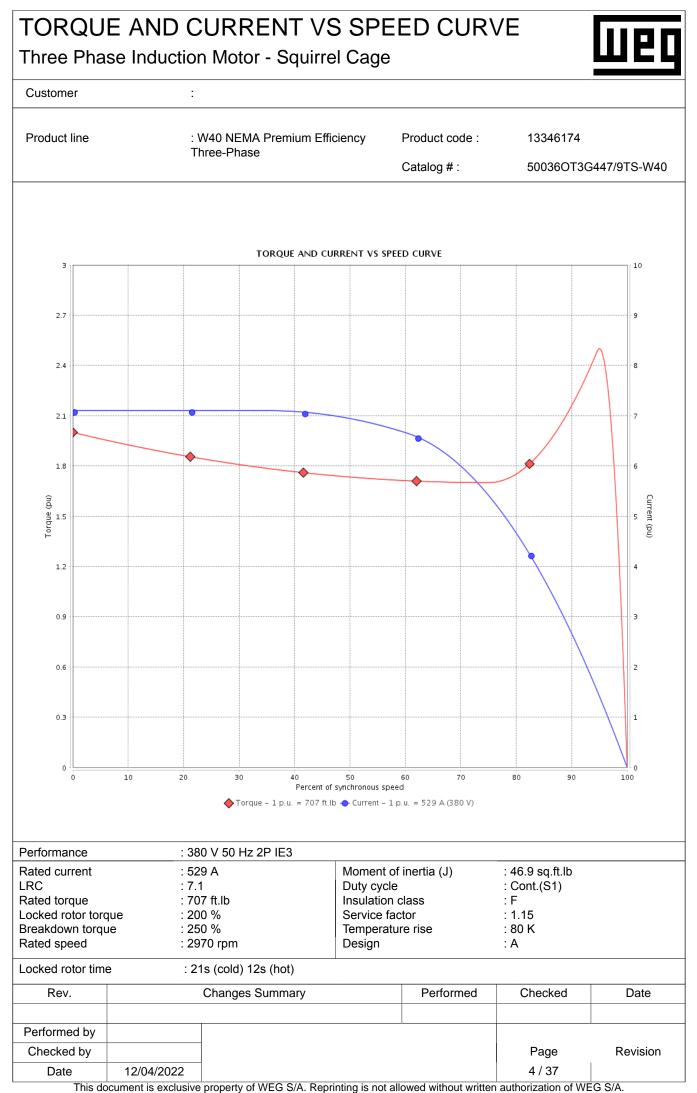
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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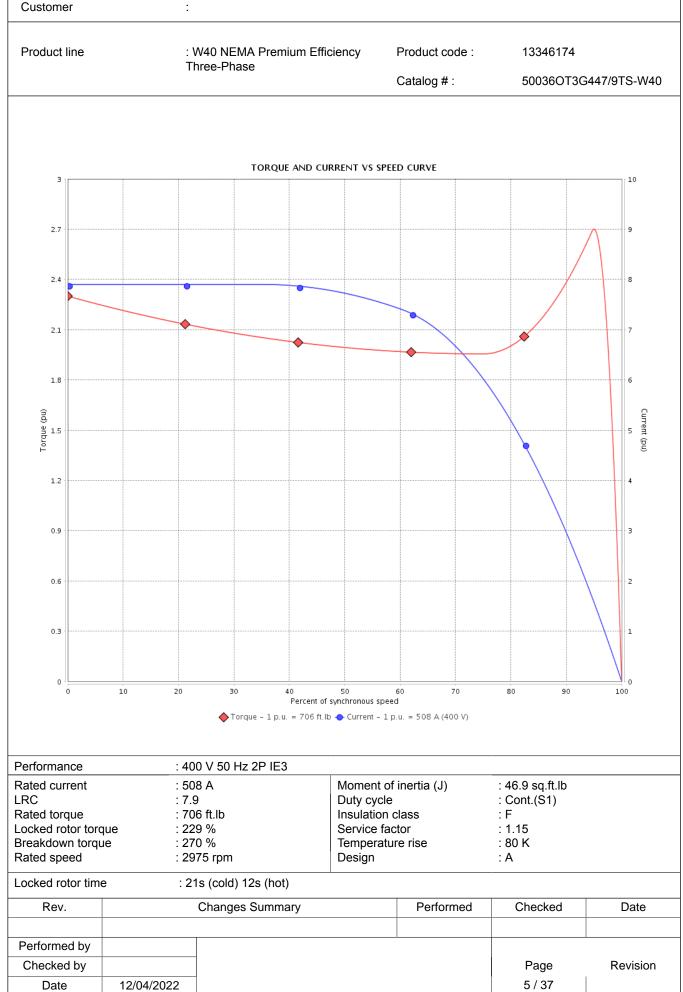
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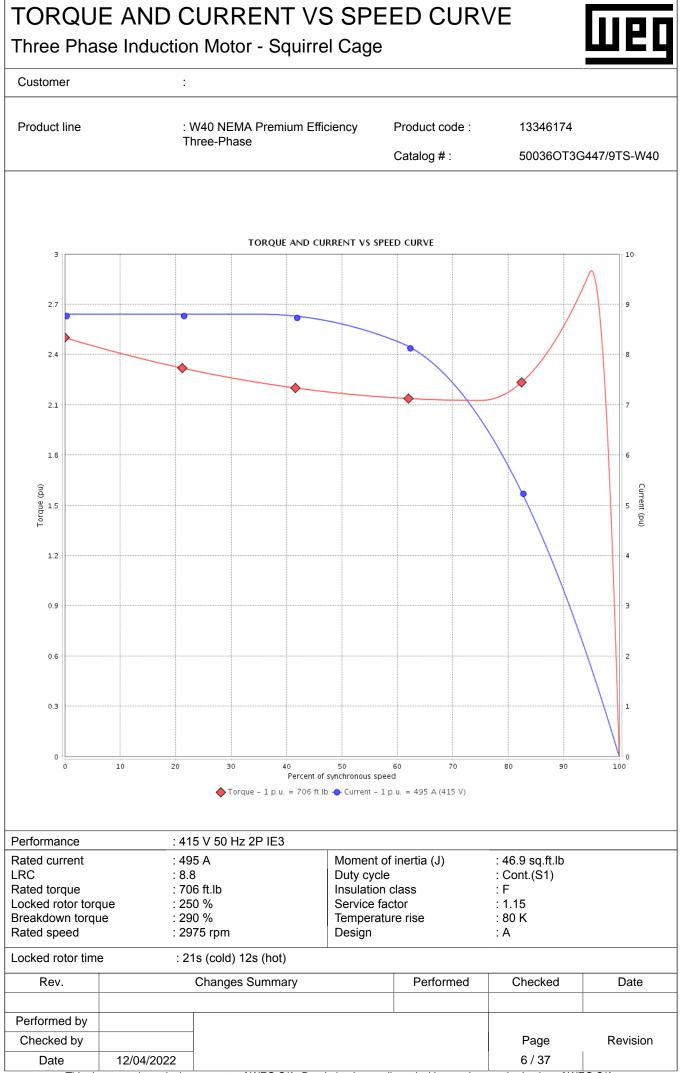
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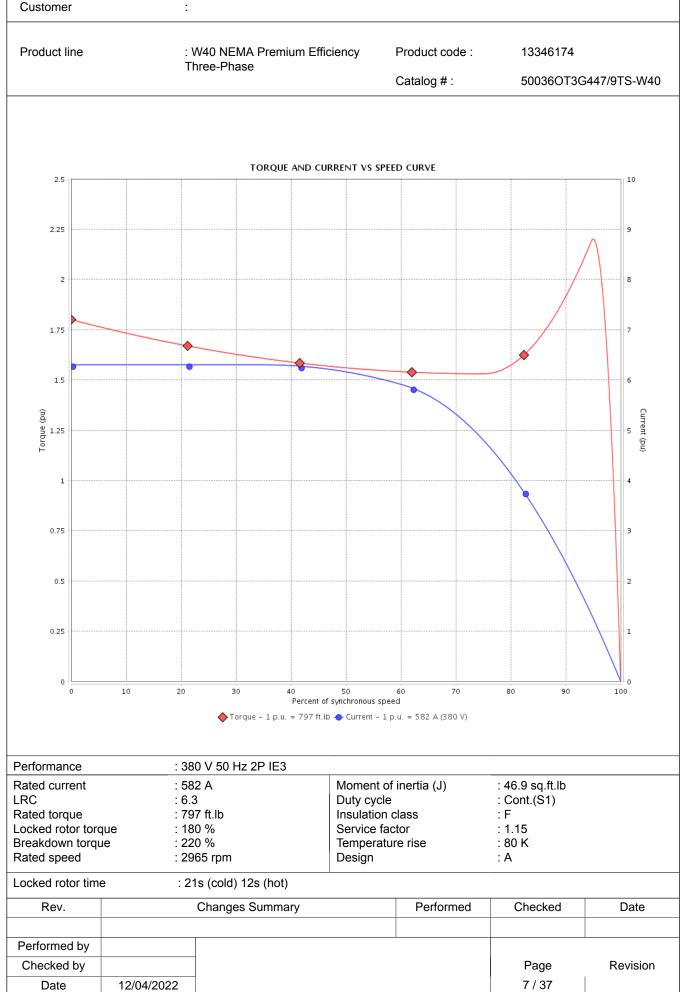
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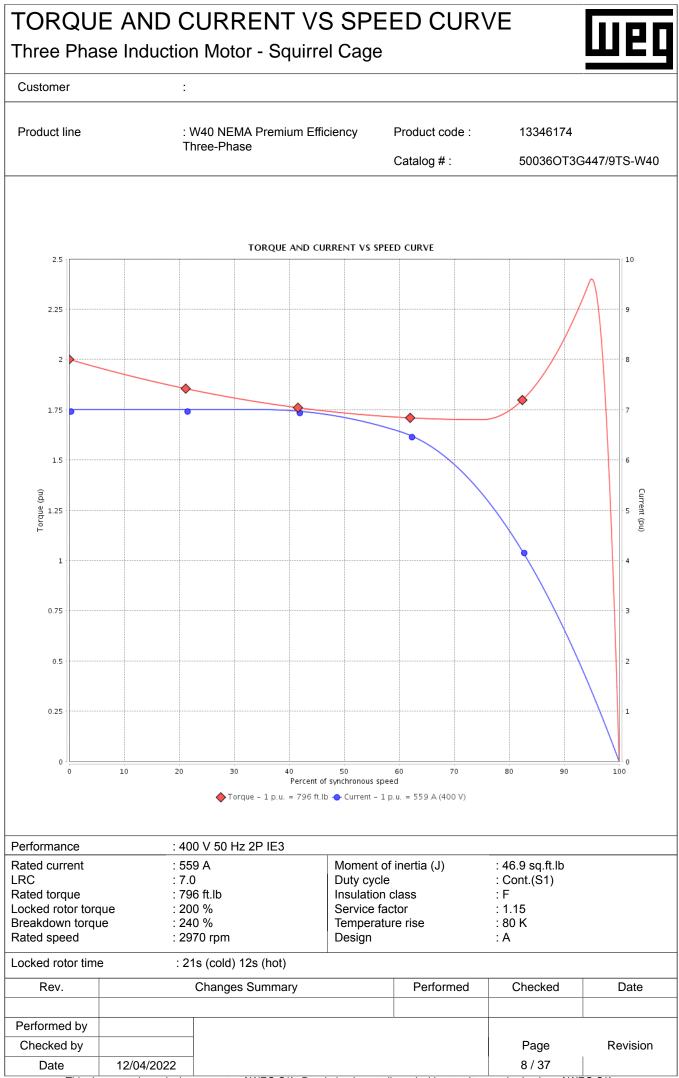
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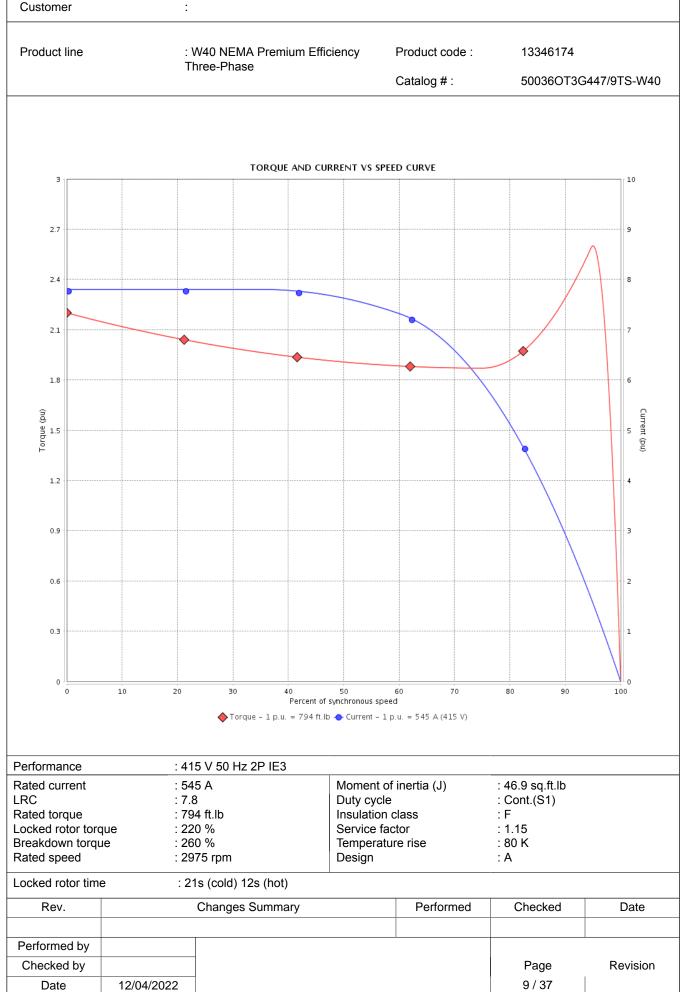
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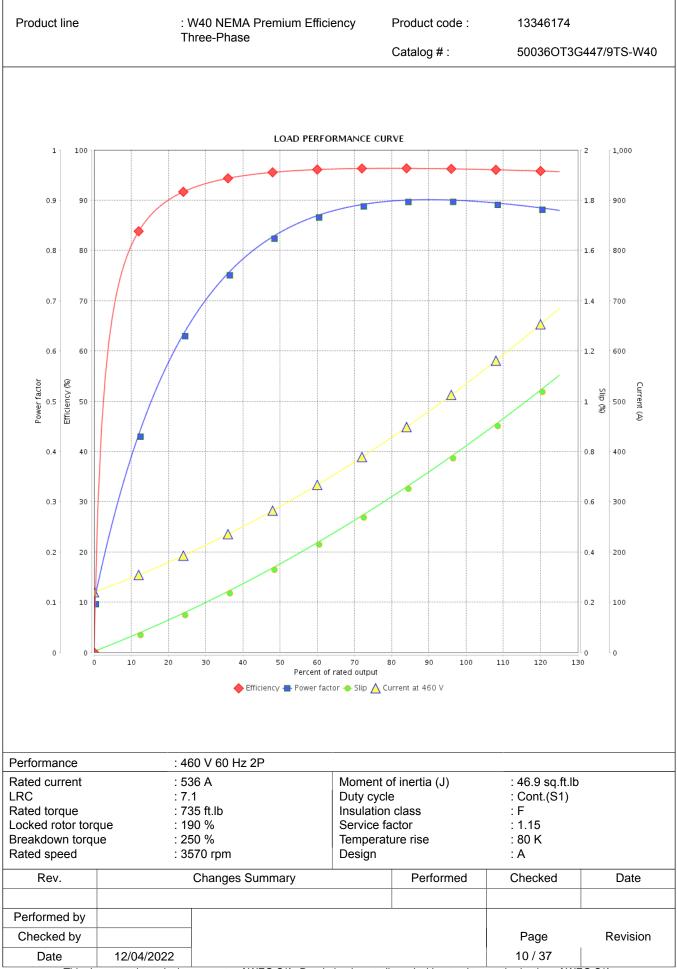
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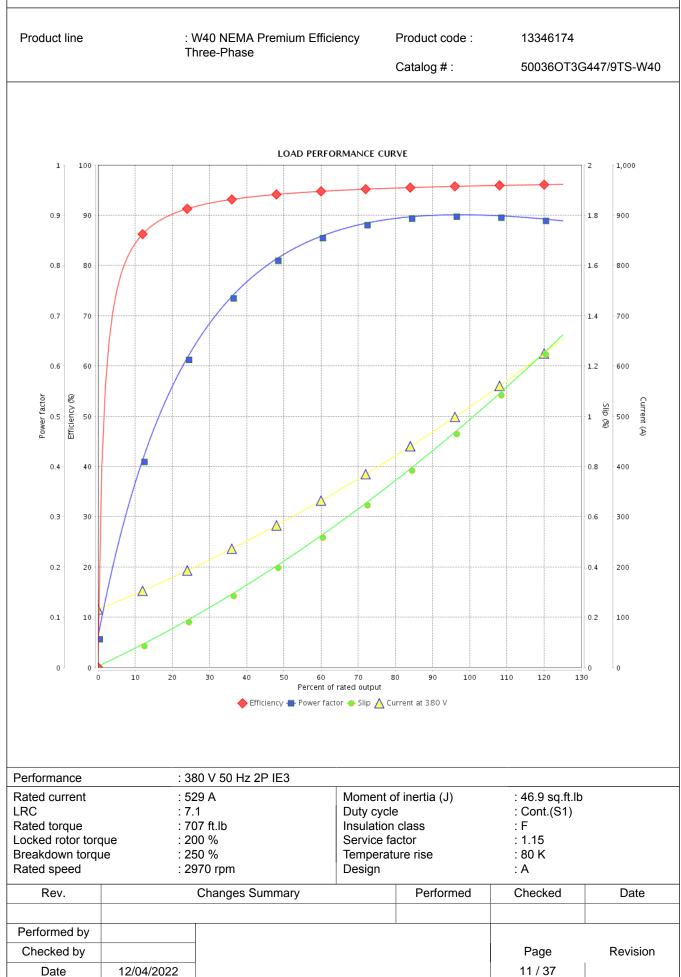
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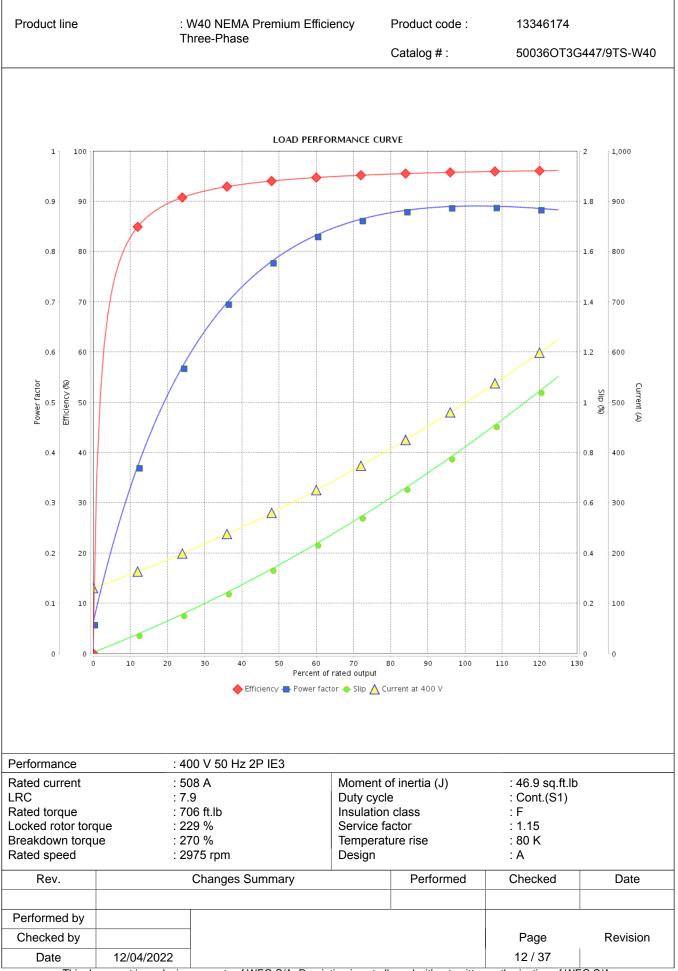
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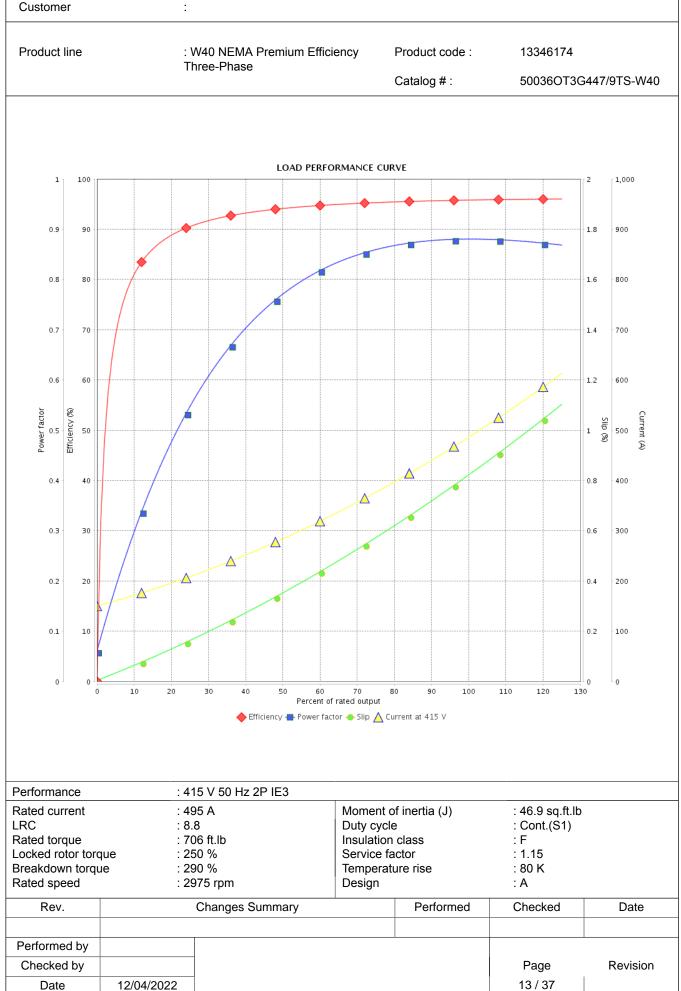


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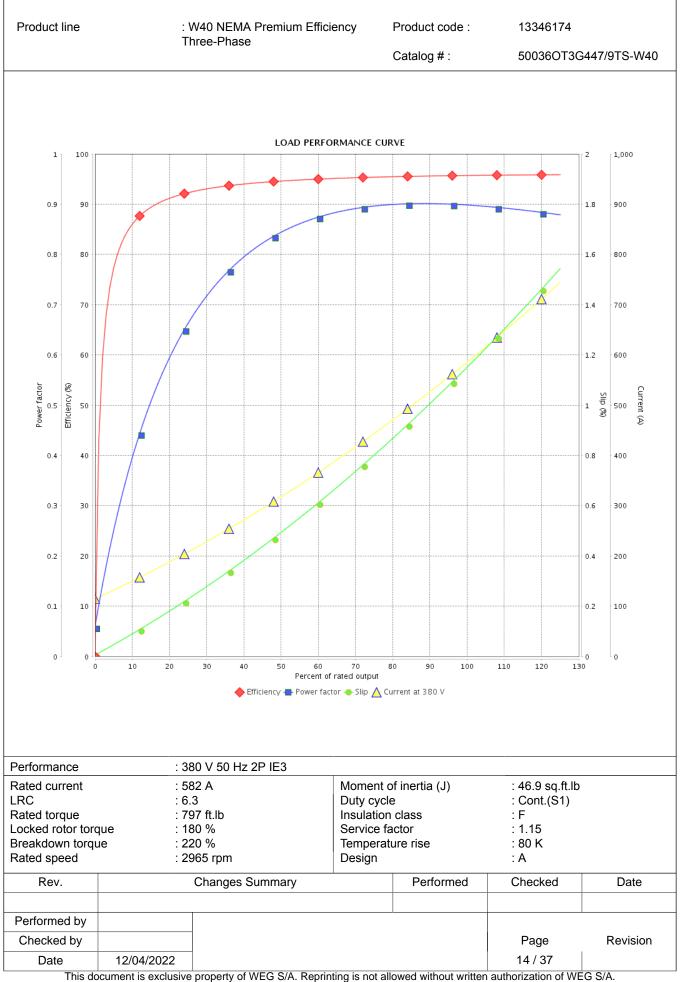
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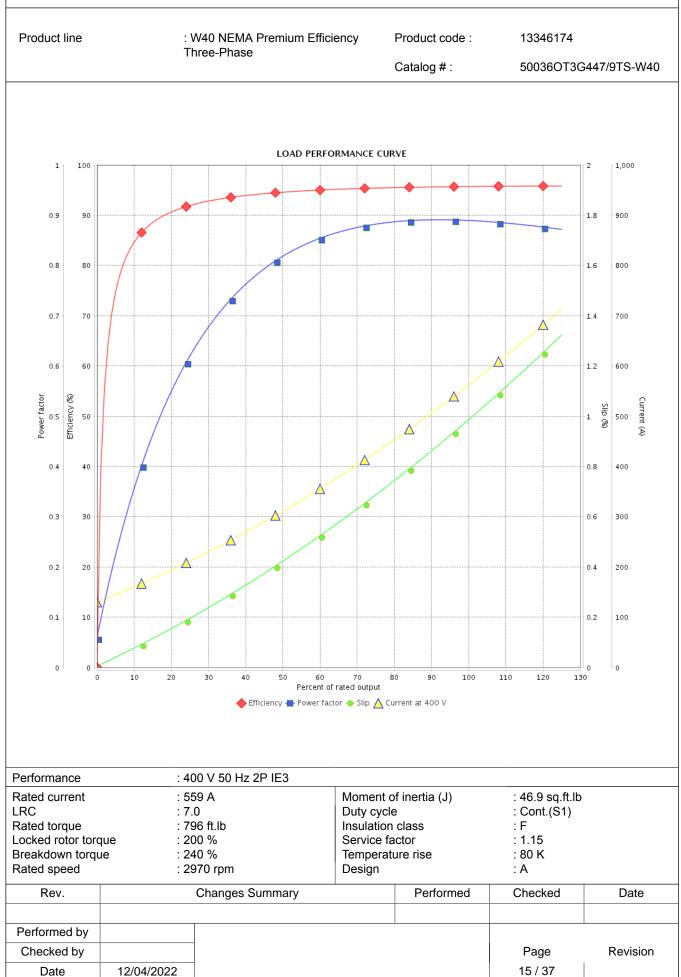
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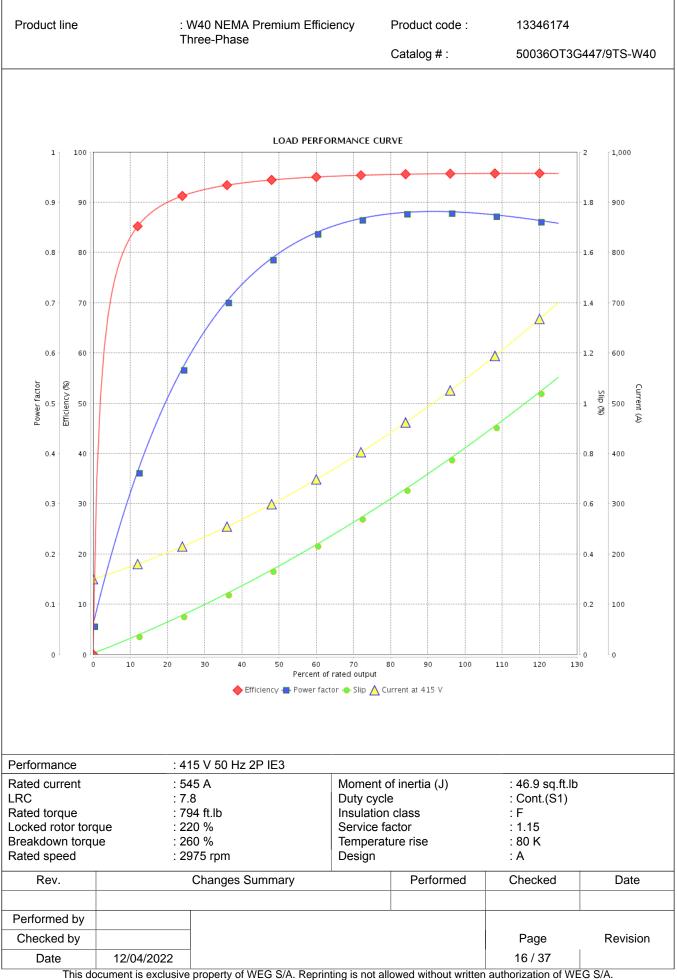
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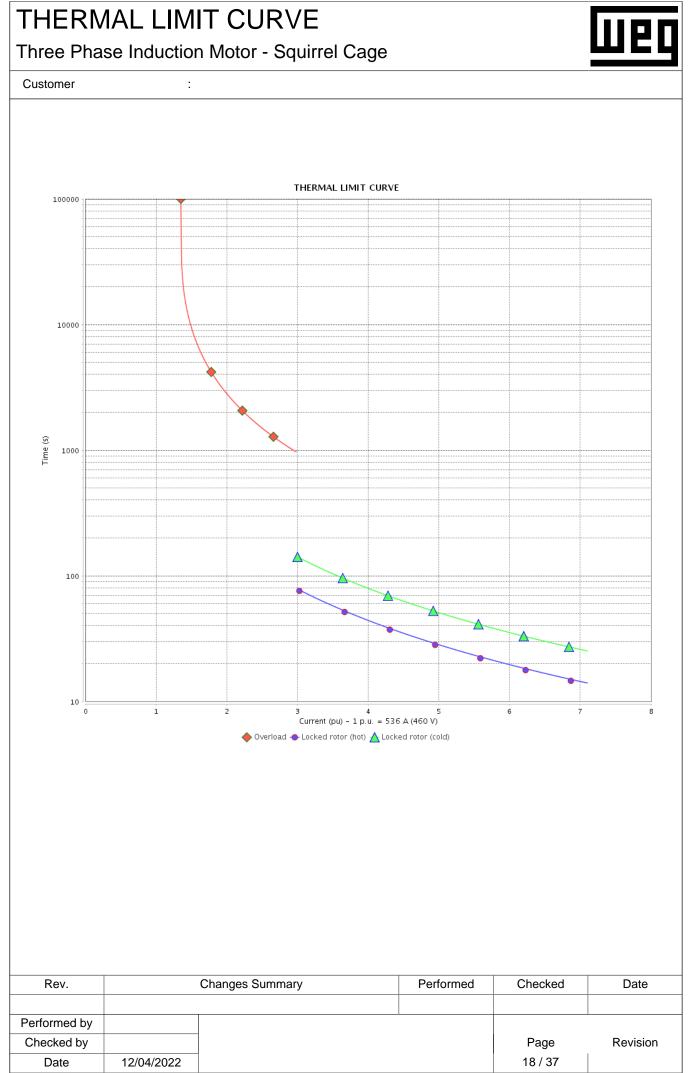
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13346174
		Catalog # :	50036OT3G447/9TS-W40

Шед

Performance	:	460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torg	iue :	536 A 7.1 735 ft.lb 190 %	Duty cycle Insulation Service fa	class ctor	: 46.9 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torqu	ie :	250 %	Temperati	ire rise	: 80 K	
Rated speed	:	3570 rpm	Design		: A	
Heating constant	:					
Cooling constant						
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Checked by					Page	Revision
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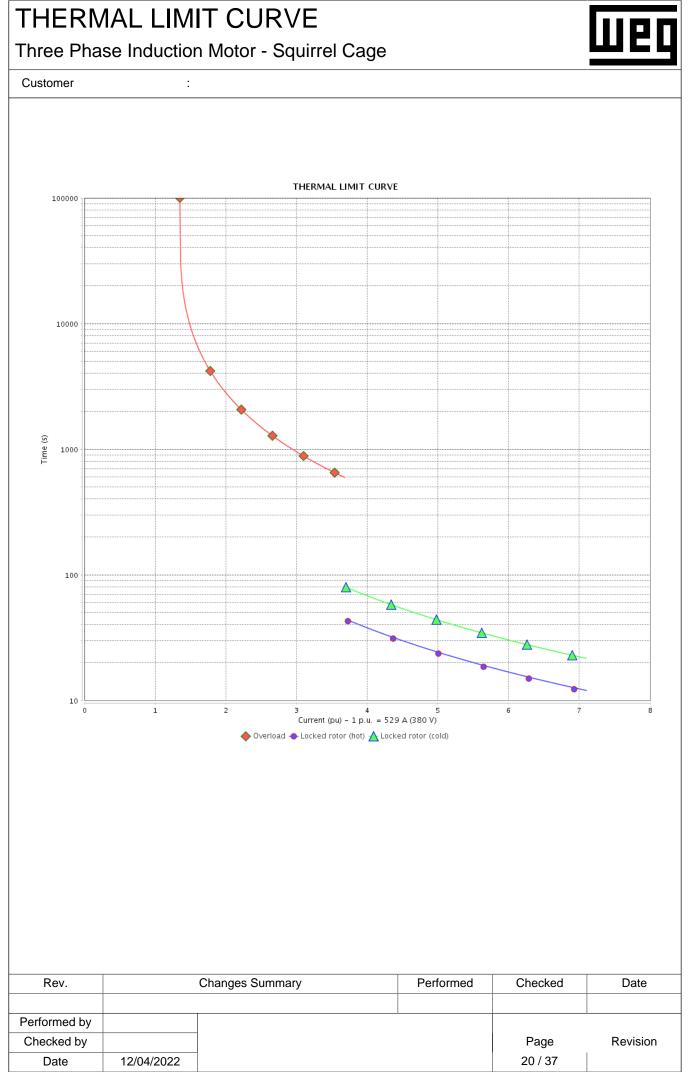
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13346174
		Catalog # :	50036OT3G447/9TS-W40

Шед

Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	lue le	: 529 A : 7.1 : 707 ft.lb : 200 % : 250 % : 2970 rpm	Moment Duty cycl Insulatior Service f Tempera Design	n class actor	: 46.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant Cooling constant						
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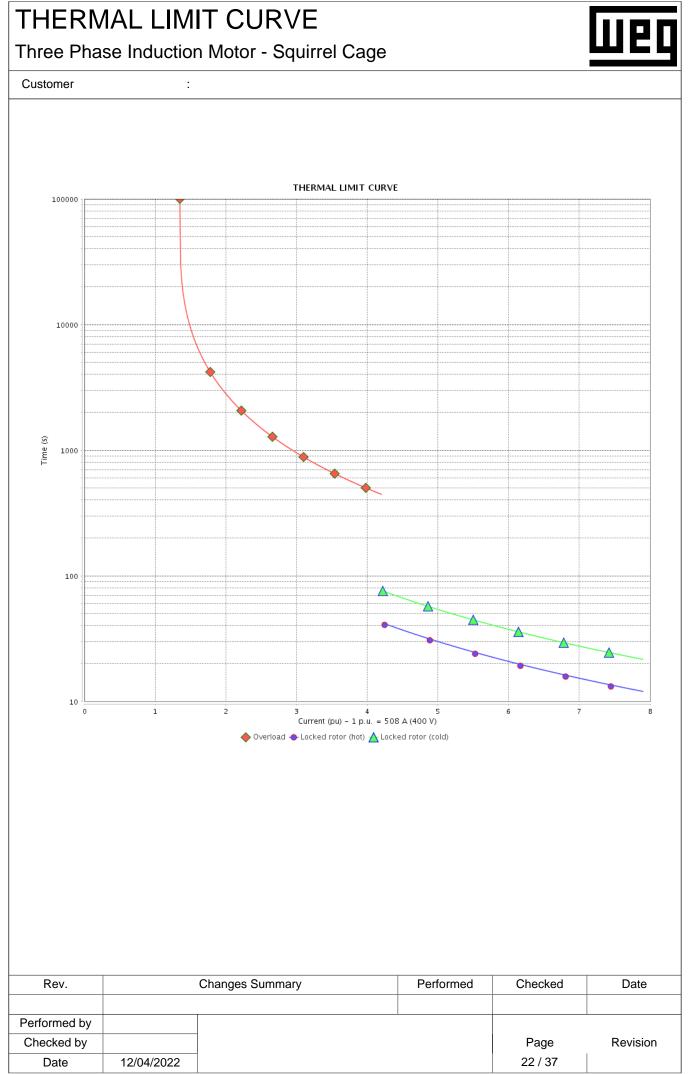
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Customer

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13346174
		Catalog # :	50036OT3G447/9TS-W40

Шеq

Performance	: 4	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	iue 22	08 A .9 06 ft.lb 29 % 70 % 975 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 46.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant	t					
Cooling constant						
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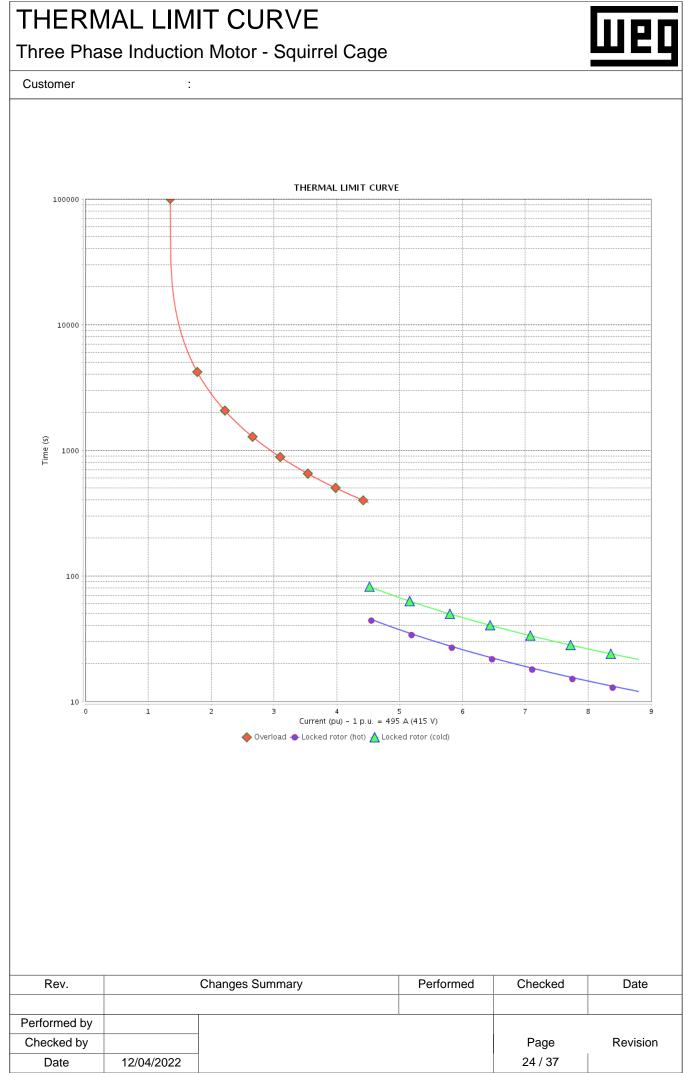
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Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13346174
		Catalog # :	50036OT3G447/9TS-W40

Шеq

Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 8 : 7 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	95 A .8 06 ft.lb 50 % 90 % 975 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 46.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant	t					
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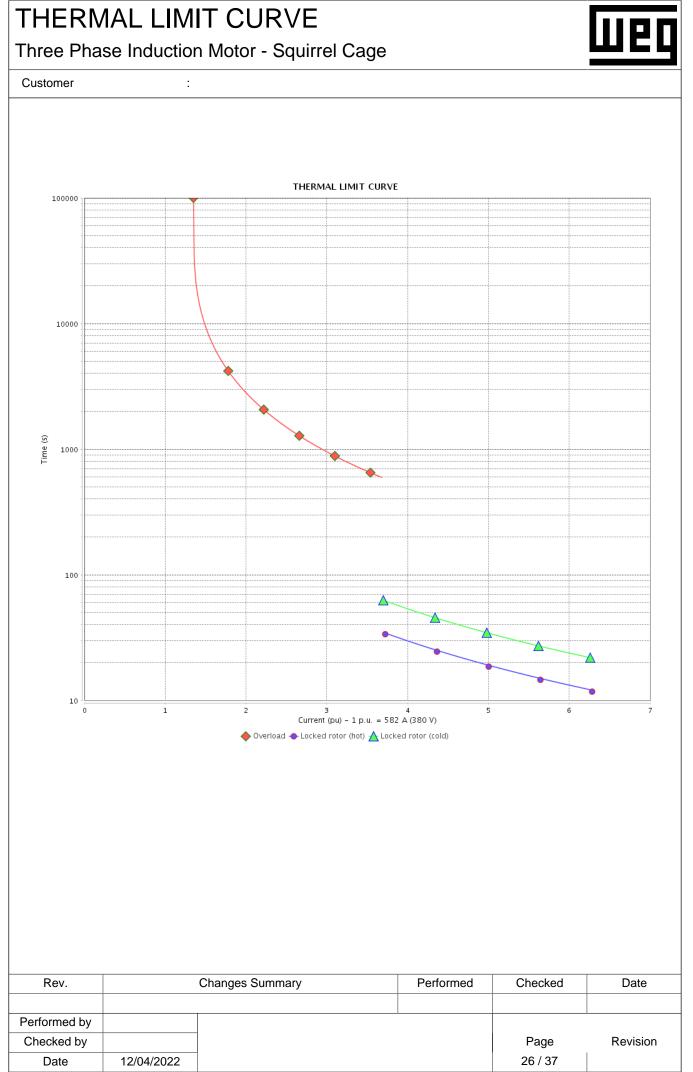
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Customer

Product line	: W40 NEMA Premium Efficiency	Product code :	13346174
	Three-Phase	Catalog # :	50036OT3G447/9TS-W40

Шеq

Performance	: 38	80 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 79 iue : 18 ie : 22	82 A .3 97 ft.lb 80 % 20 % 965 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 46.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant	t					
Cooling constant	:					
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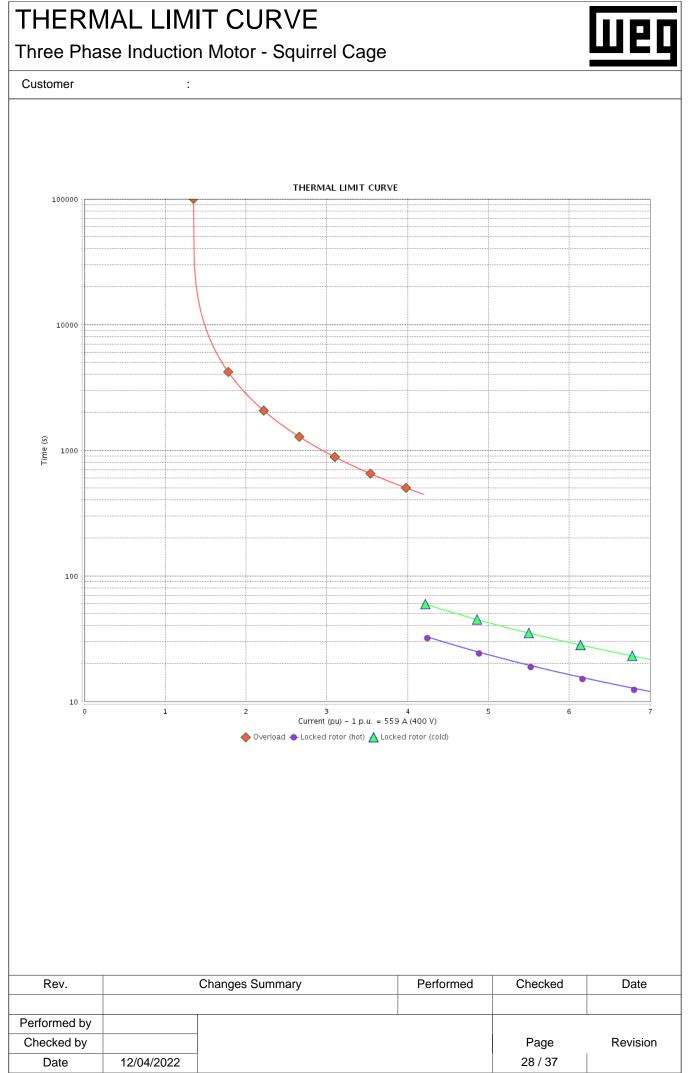
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Customer

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13346174
		Catalog # :	50036OT3G447/9TS-W40

Шед

Performance	: 40	00 V 50 Hz 2P IE3				
LRC: 7Rated torque: 7Locked rotor torque: 2Breakdown torque: 2		59 A .0 96 ft.lb 00 % 40 % 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 46.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant						
Cooling constant						
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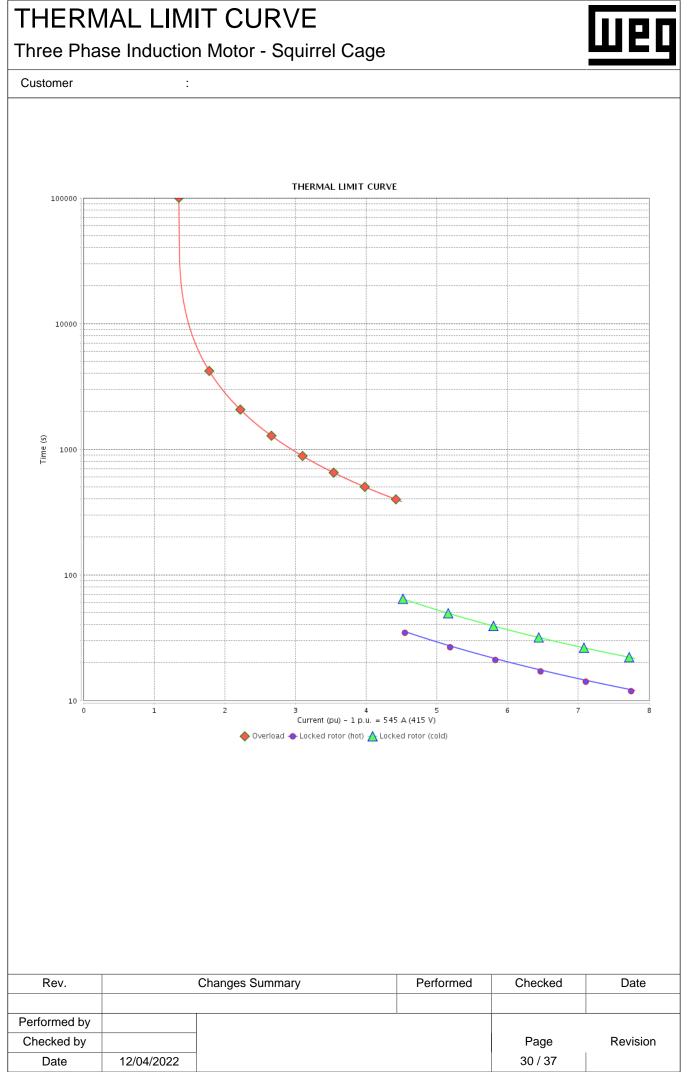
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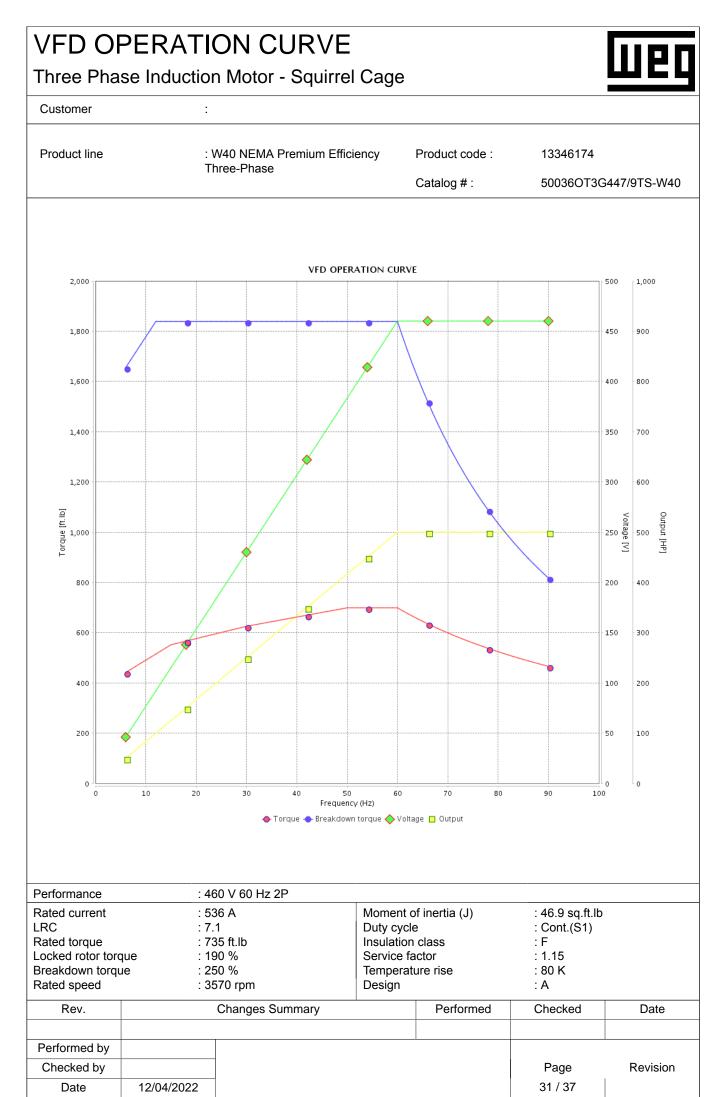
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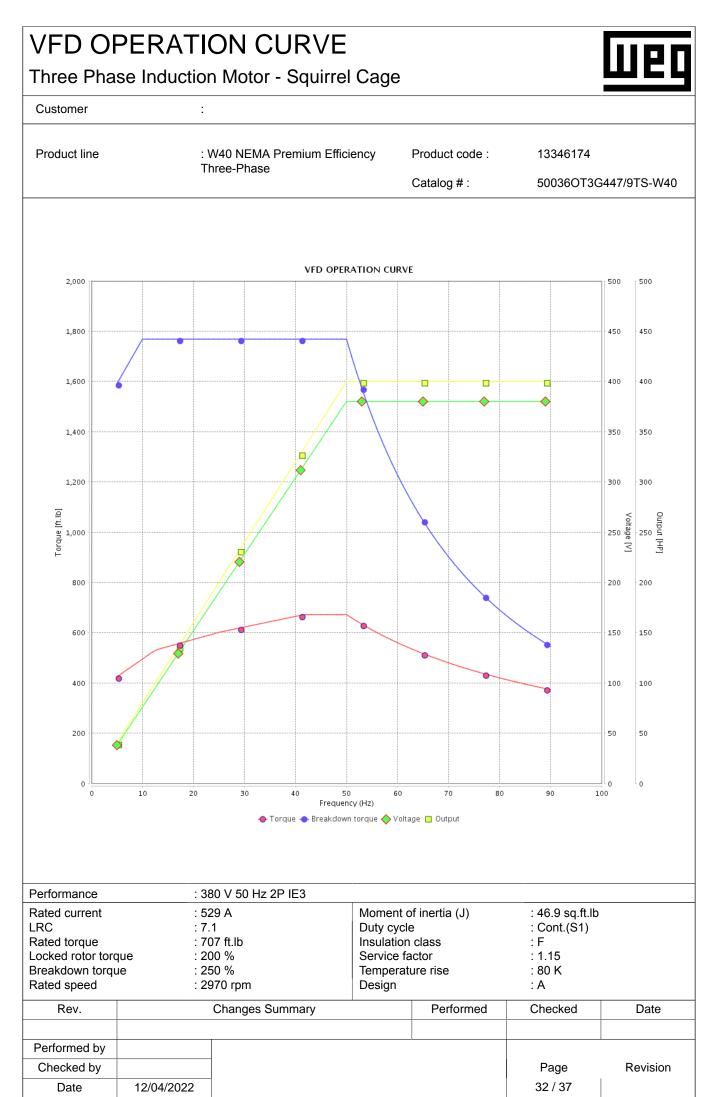
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		Catalog # :	50036OT3G447/9TS-W40

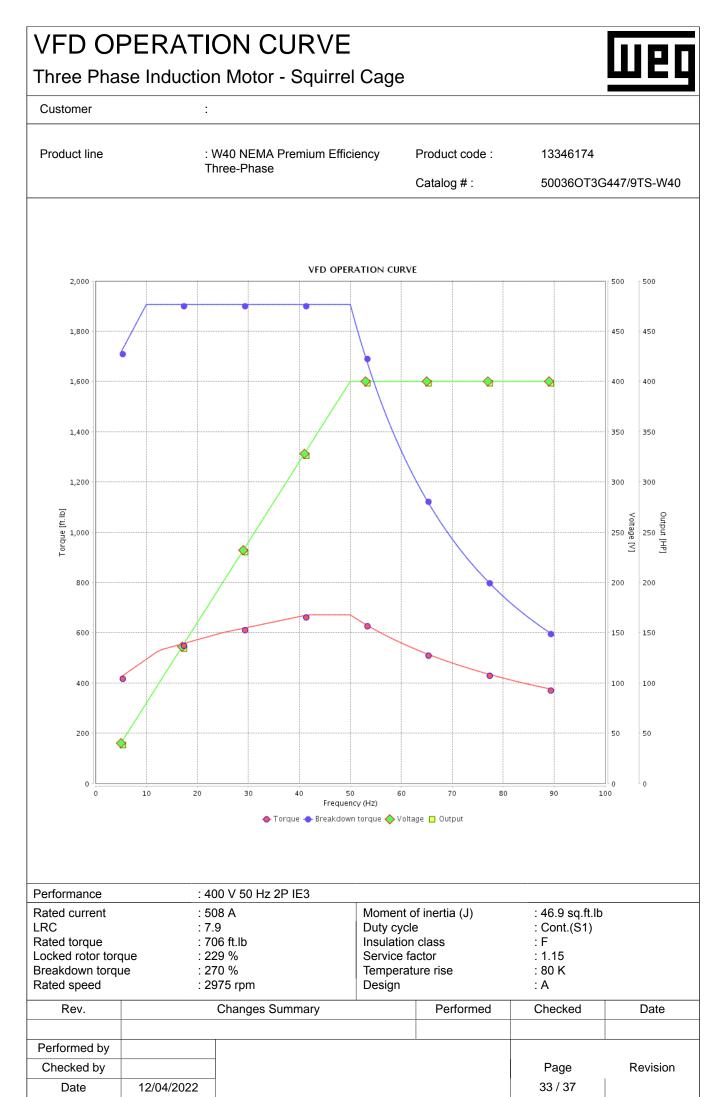
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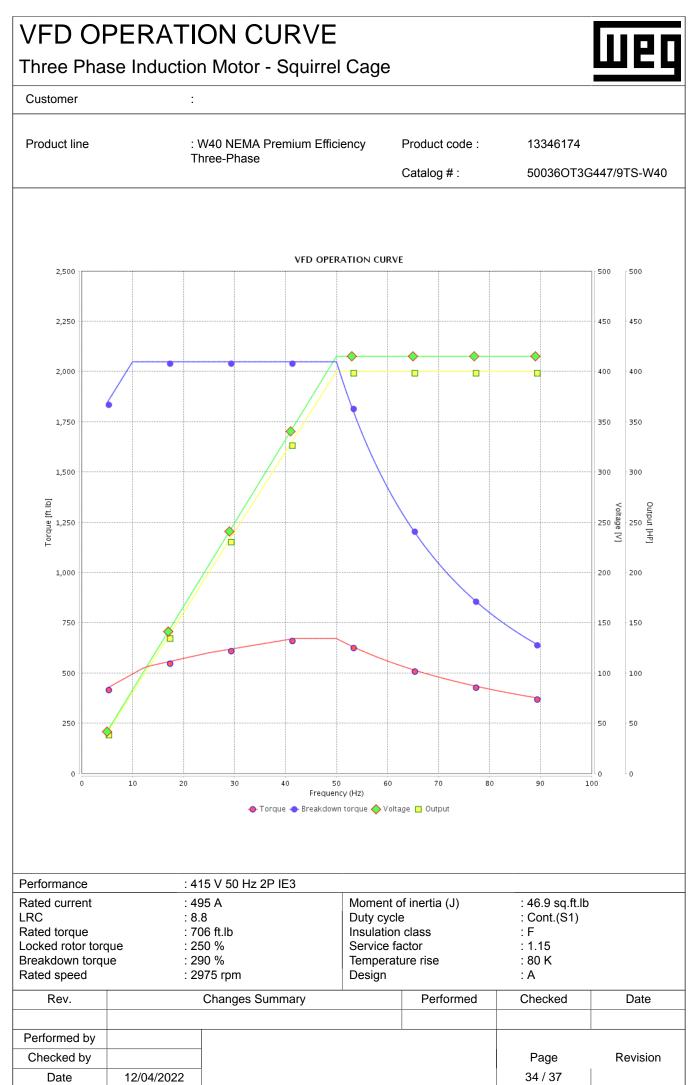
Performance	: 4	15 V 50 Hz 2P IE3				
LRC: 7Rated torque: 7Locked rotor torque: 2Breakdown torque: 2		45 A .8 94 ft.lb 20 % 60 % 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 46.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant						
Cooling constant	t					
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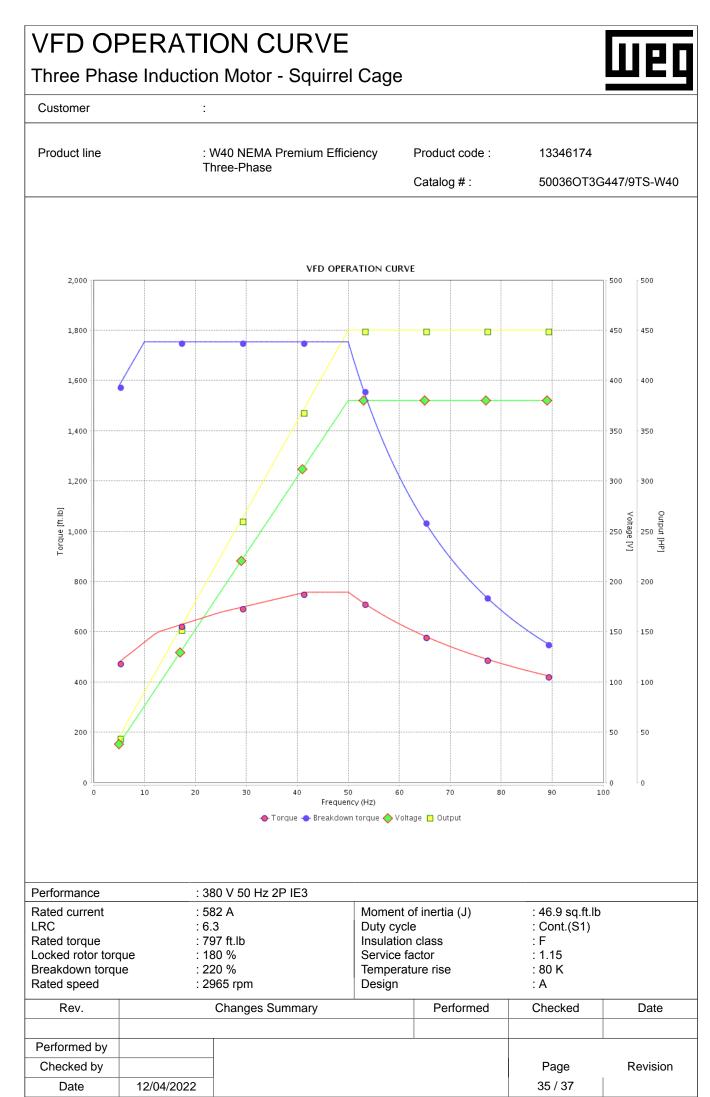


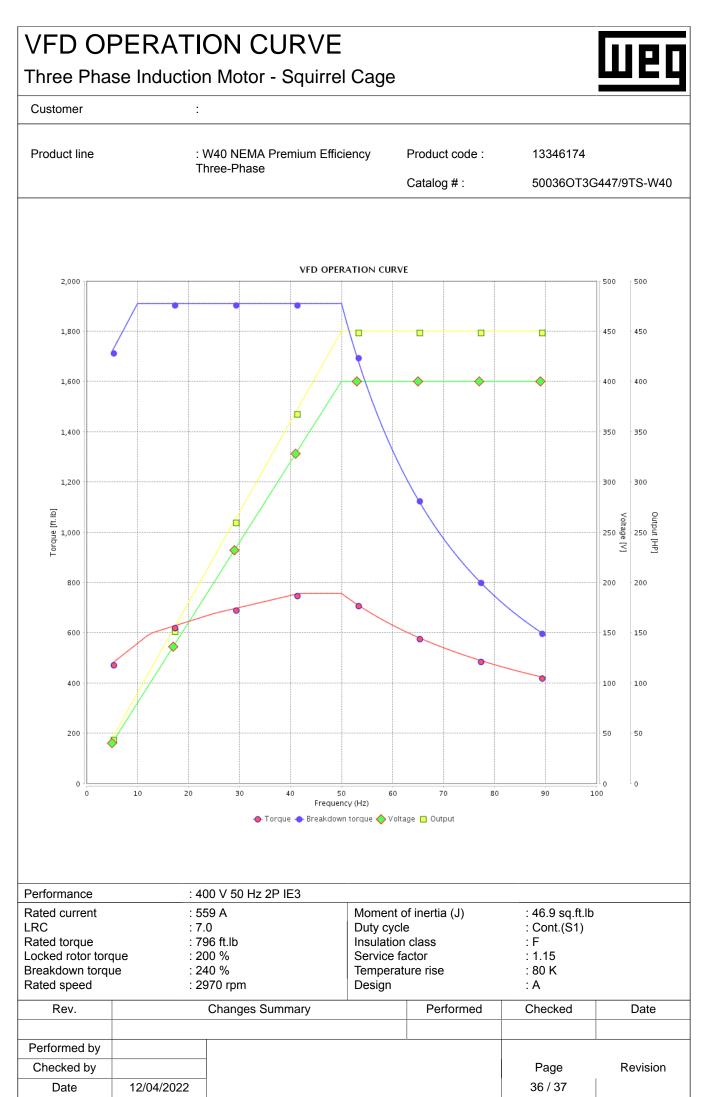


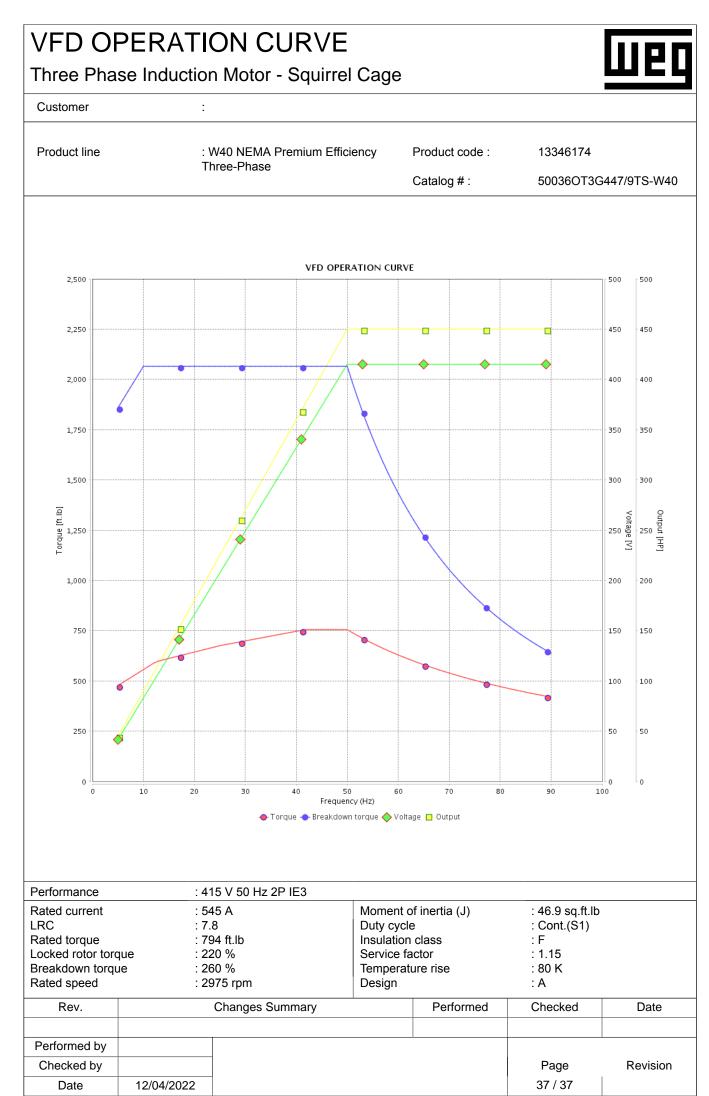


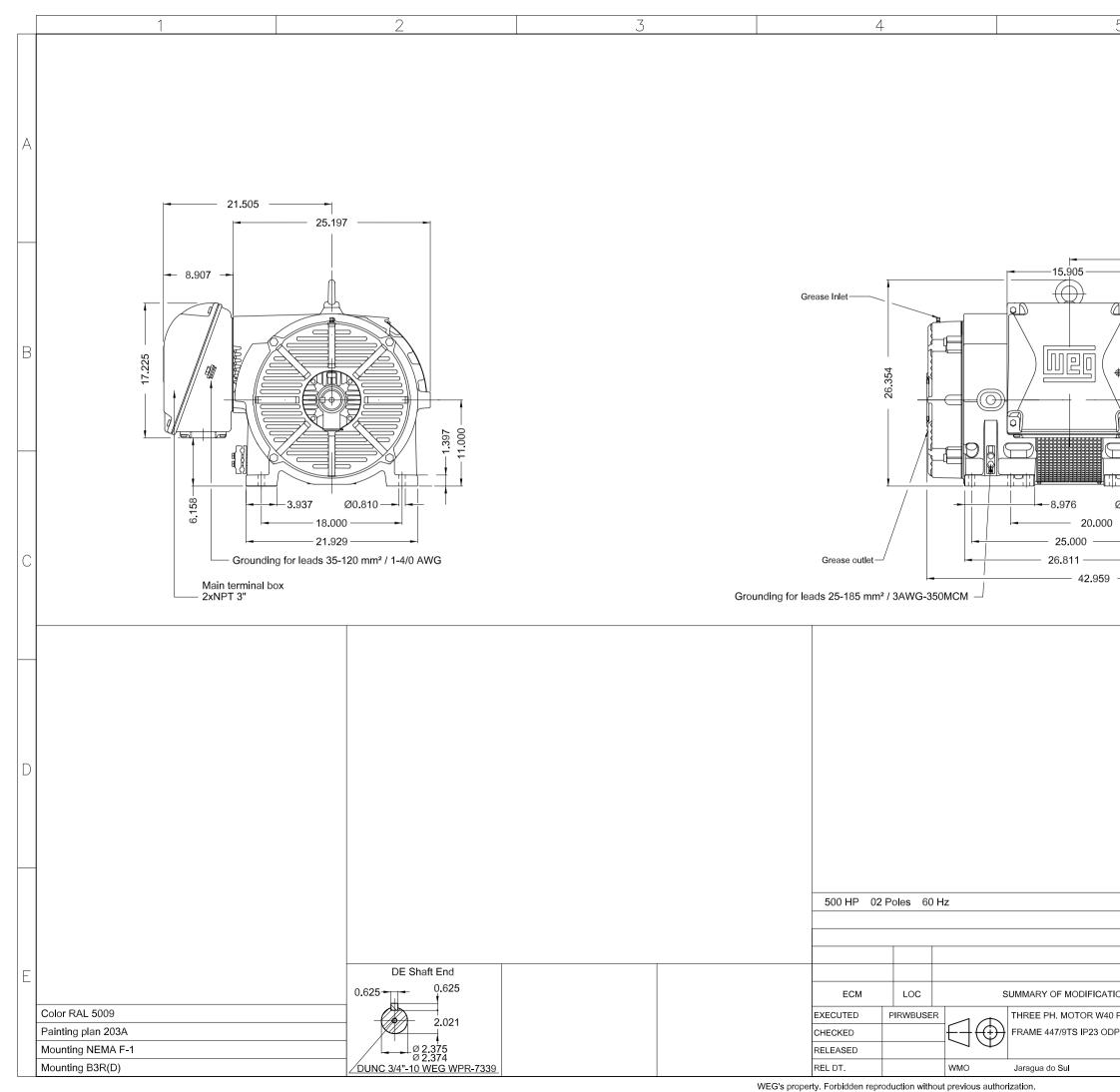












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		Greas 	se Inlet		
	0.905 500 - Grease	- 4.750 outlet			
					Sel
					<u>-</u>
					A Dimensions in inches
				1:12	
NS REM. EFF.	EXECUTED	CHECKED PREVI WDD	RELEASED	DATE	

-W40	CCO29A								CUUS LISTED MOD.TO1#FOXON					Control Contro				
L 500360T3G447/9TS- MADE IN BRAZIL 13346174	PH 3 FR 447/9TS HP(kW) 500					500(3)(370) нz 60			0	PART-WINDING WYE-DELTA START RUN START oT12 oT10 oT11 oT12 oT10 oT11 oT12			RUN				
3447/ BRA 174	<u>t</u> v 460 A 53			536	36			IP23 ₀17 ₀18		े 19 ० T	2 0110 011 7 018 019 6 014 015	ι ότε ότ ε ότ	5 0 16	oT10 oT11 oT4 oT5				
60T3(IN 5346	NEMA NOM EFF 96.2			6.2	%	RPM 3570			ο 16 ο 14 ο 11 ο 12 L1 L2				3 ¢T1	фт8 фт9 фт2 фт3 L2 L3				
5003 14DE 13	ENCL ODP DUTY			(CONT. INS. CL. F			ΔT	80 K	< → 6314-C3(27q) MOBIL POLYRE				_				
MODEL	PF 0.90			DES	A	code G		амв. 40°С			314-C3(14418		LM			
MO	SF 1.15 SFA 616					alt 1	000	m.a.s.l.			220)2 Lbs						
																		J