# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:

#### Customer

Product line			A Premium Ef	fficiency		Product code : 13621121				
		Three-Phas	se			Catalog # :		20012OT3G447/9T-W40		
Frame		: 447/9T				method			C01 - ODP	
Insulation class		: F			/lountir			: F		
Duty cycle		: Cont.(S1)	4000		Rotatio				Both (CW an	
Ambient tempera	ature	: -20°C to +				method			irect On Lir	e
Altitude	_	: 1000 m.a.	s.I.			. weight <sup>3</sup>			996 lb	
Protection degre	е	: IP23		IV	/lomen	t of inertia (J)	)	:9	8.2 sq.ft.lb	
Design		: A								
Output [HP]		200	175	175	5	175	200	)	200	200
Poles		6	6	6		6	6		6	6
Frequency [Hz]		60	50	50	)	50	50		50	50
Rated voltage [V]		460	380	400	-	415	380		400	415
Rated current [A]		241	253	244		238	290	)	275	269
L. R. Amperes [A]		1398	1316	141	5	1499	130	5	1403	1506
_RC [A]		5.8x(Code F)	5.2x(Code E)	5.8x(C	Code	6.3x(Code	4.5x(Co	de D)	5.1x(Code	E)5.6x(Code
				Ġ)		Ġ)		,		
No load current [A		95.0	93.7	101	1	108	93.	7	101	108
Rated speed [RPN	Л]	1185	980	980	0	980	980	)	980	980
Slip [%]		1.25	2.00	2.0	0	2.00	2.0	0	2.00	2.00
Rated torque [ft.lb	]	886	938	938	8	938	107	0	1070	1070
Locked rotor torqu		200	170	190		210	150	)	170	180
Breakdown torque		220	190	220		240	170		190	210
Service factor	-	1.15	1.15	1.1	5	1.15	1.0		1.00	1.00
Temperature rise		80 K	80 K	80	K	80 K	105	K	105 K	105 K
Locked rotor time		32s (cold)	18s (cold)	18s (c	cold)	18s (cold)	18s (c	old)	18s (cold)	18s (cold)
-		18s (hot)	10s (hot)	10s (ł		10s (hot)	10s (ł		10s (hot)	10s (hot)
Noise level <sup>2</sup>		79.0 dB(A)	79.0 dB(A)	79.0 d	B(A)	79.0 dB(A)	79.0 dl	B(Á)	79.0 dB(A	) 79.0 dB(A)
	25%	94.9	93.4	93.	2	93.1	94.2	2	94.2	94.2
	50%	95.0	94.3	94.	1	94.0	94.	5	94.5	94.5
Efficiency (%)	75%	95.4	94.6	94.	6	94.6	94.	5	94.5	94.5
	100%	95.4	95.4	95.4	4	95.4	94.	7	94.7	94.7
	25%	0.43	0.45	0.4	1	0.39	0.5	0	0.46	0.43
	50%	0.69	0.70	0.6	6	0.63	0.7	5	0.71	0.68
Power Factor	75%	0.78	0.80	0.7	7	0.76	0.8	1	0.79	0.78
	100%	0.82	0.83	0.8	2	0.81	0.8	3	0.83	0.82
	1	Drive end	Non drive	end Fo	oundat	ion loads	1			
Bearing type		: 6319 C			ax. tra			· 50	002 lb	
Sealing		: Without		141		mpression			998 lb	
Joanny		Bearing S			an. 00			. 00		
Lubrication interv	/al	: 20000 ł								
Lubricant amoun		: 45 g	20000 27 g							
Lubricant type			il Polyrex EM							
				l						
Notes										
This revision repla	aces and ca	ncel the previo	us one. which	ı │ Т⊦	nese a	re average va	alues ba	sed ດ	n tests with	sinusoidal
must be eliminate						upply, subject				
(1) Looking the m	otor from the	e shaft end.			G-1.					
(2) Measured at 1			BdB(A).							
(3) Approximate v	veight subje	ct to changes a	after							
manufacturing pro		-								
(4) At 100% of ful										
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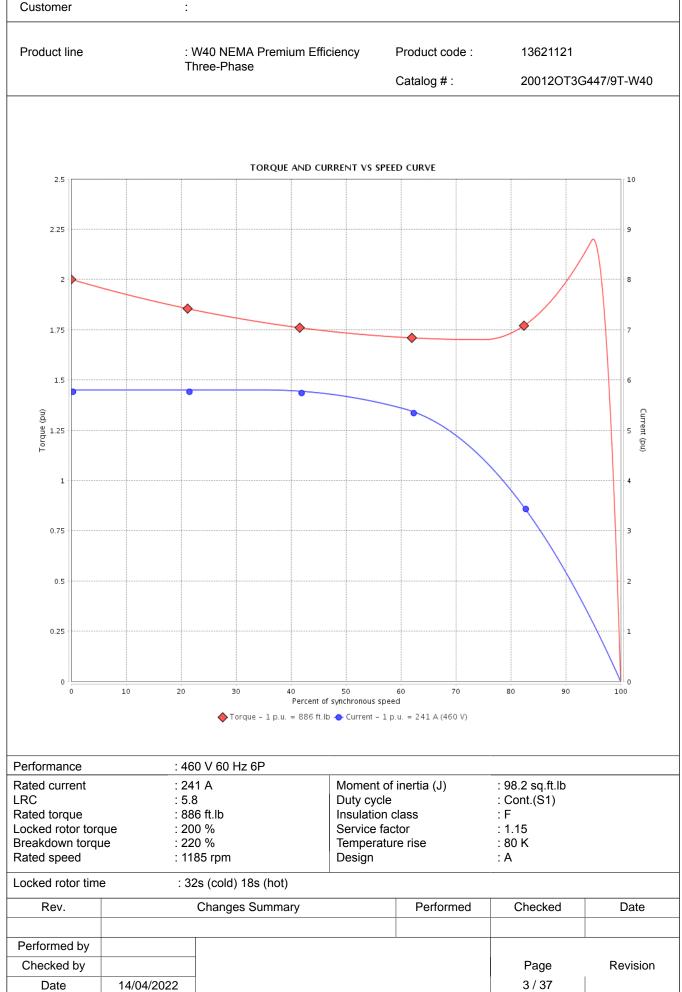
Customer

ID	Application	Thermal protection Type	Quantity	Soncing 7	<b>Temperature</b>
1					
1	Winding	Thermistor - 2 wires	1 x Phase	15	55 °C
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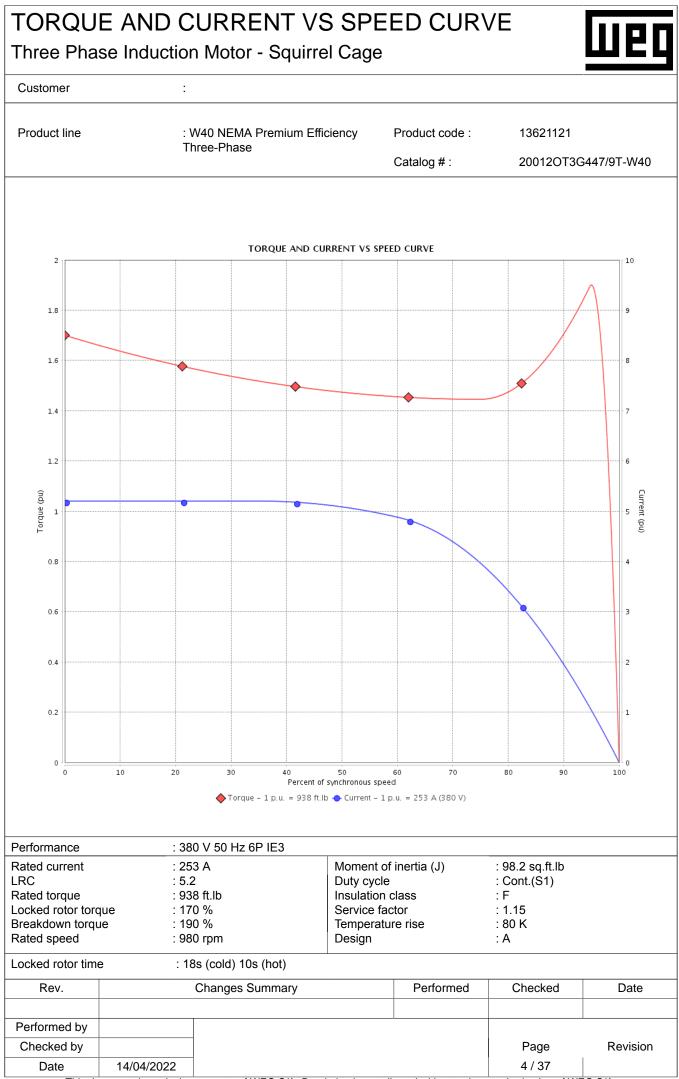
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



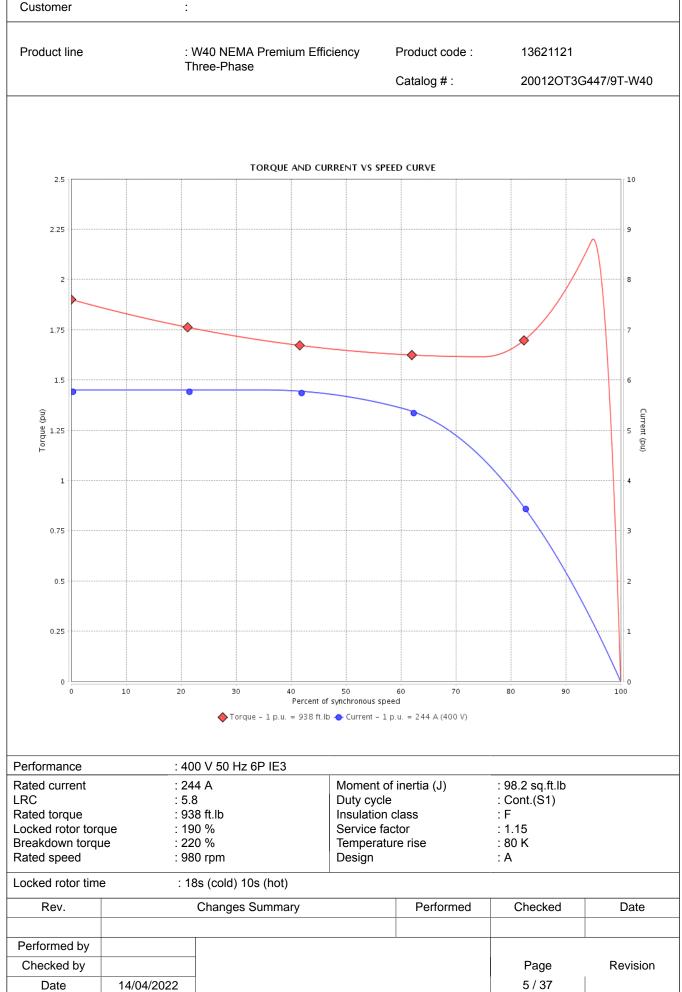
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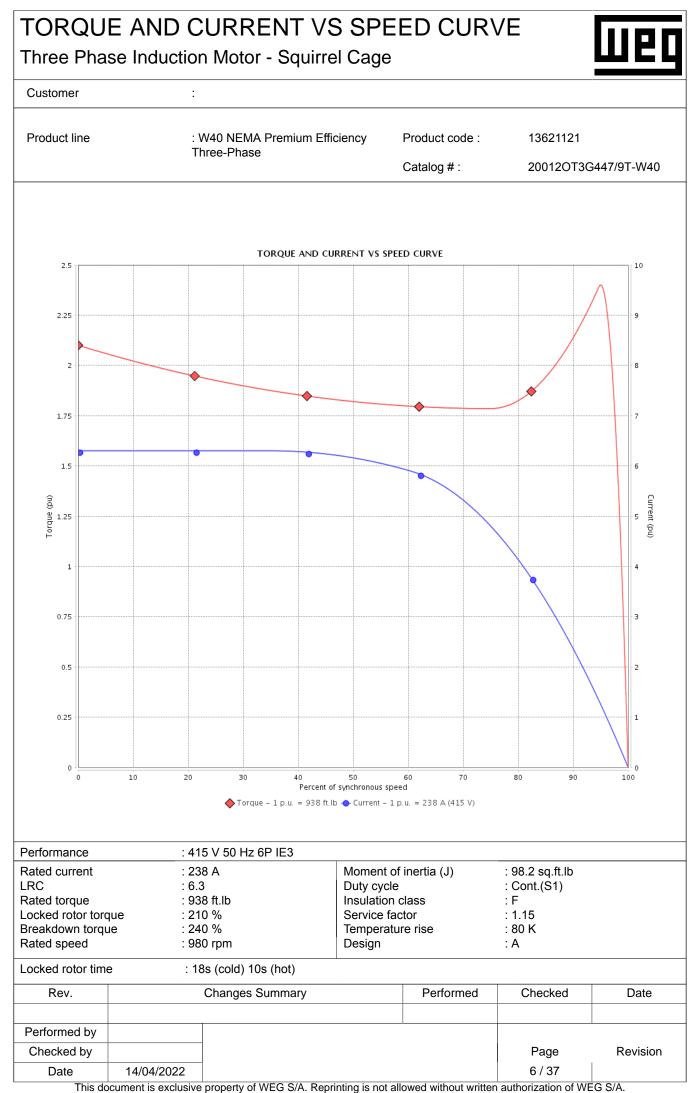
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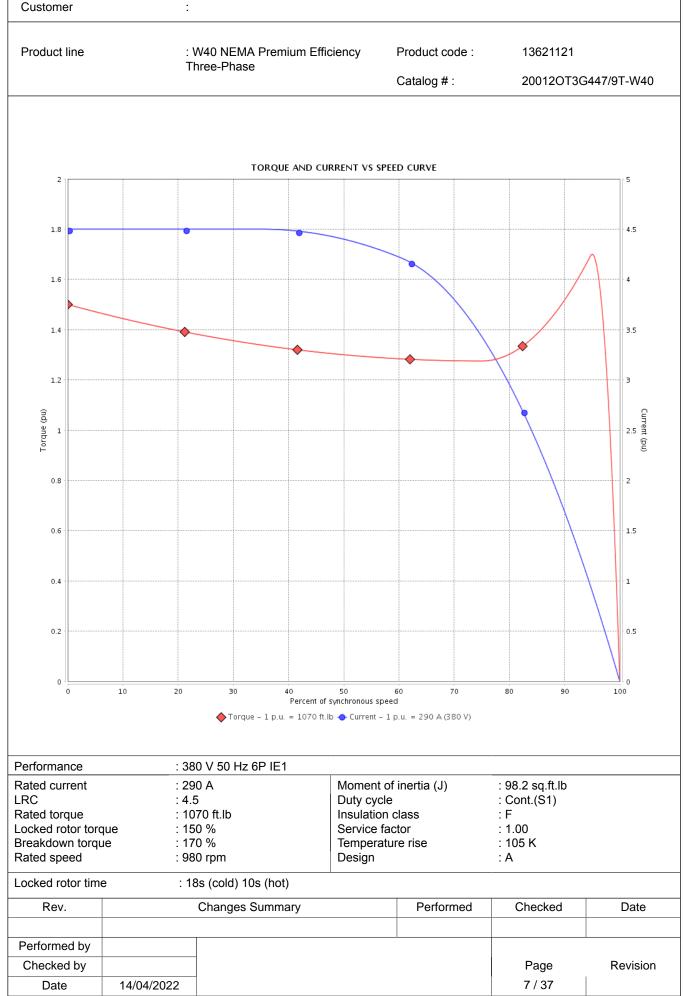
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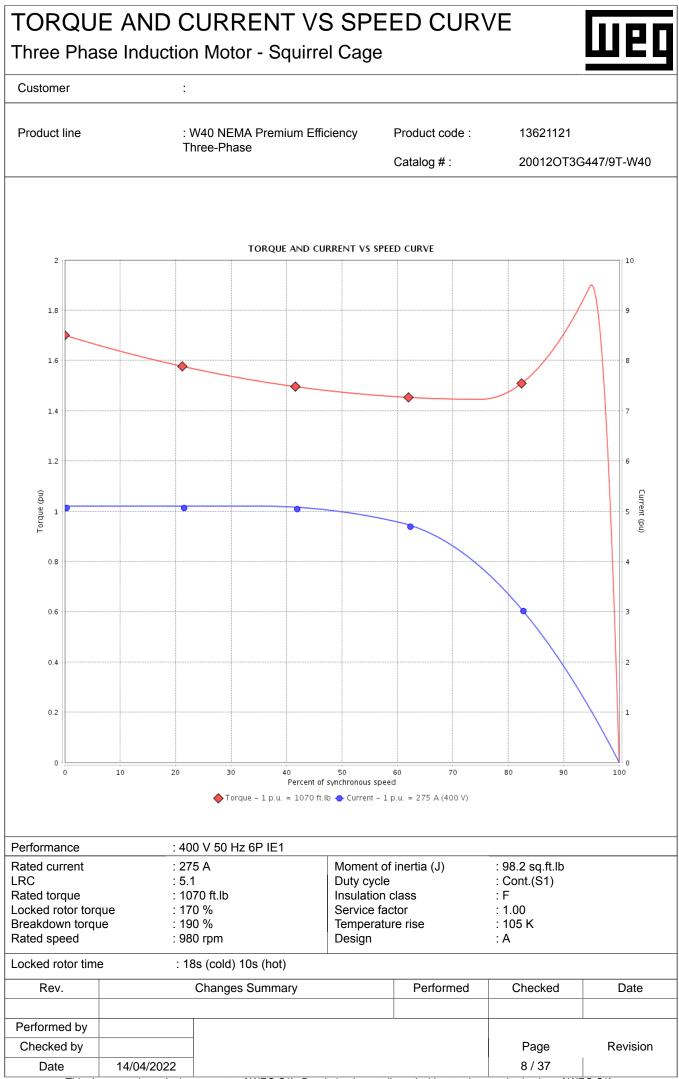
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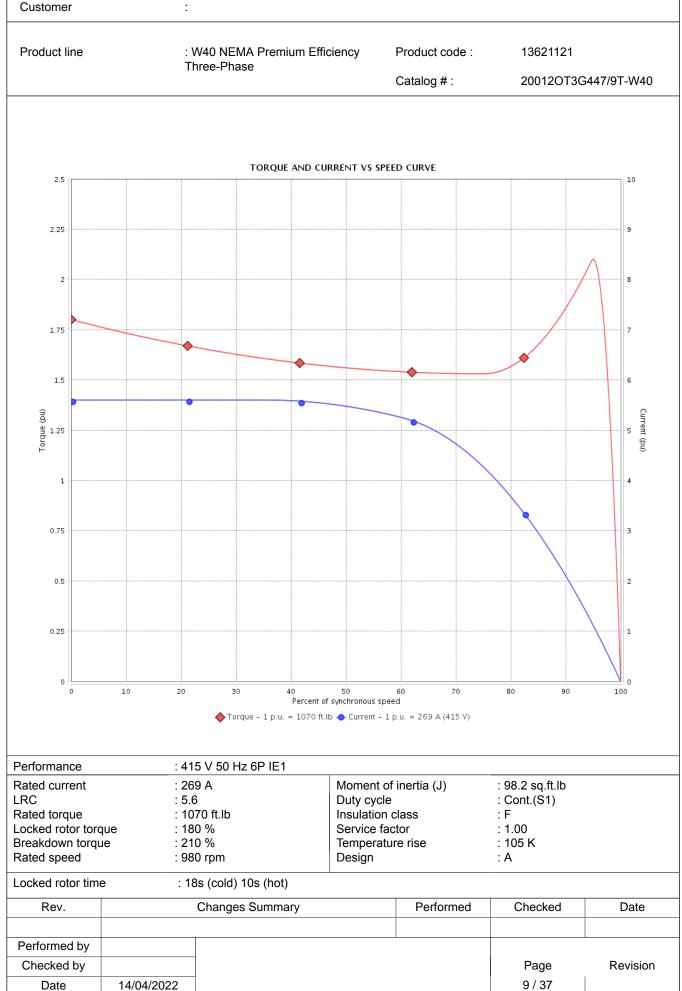
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### TORQUE AND CURRENT VS SPEED CURVE

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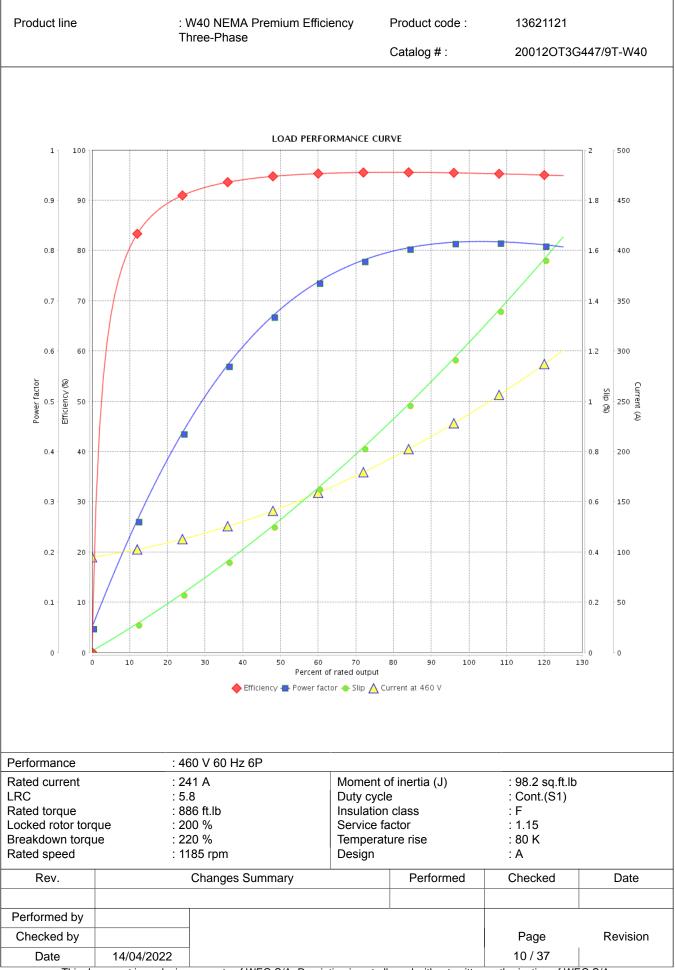
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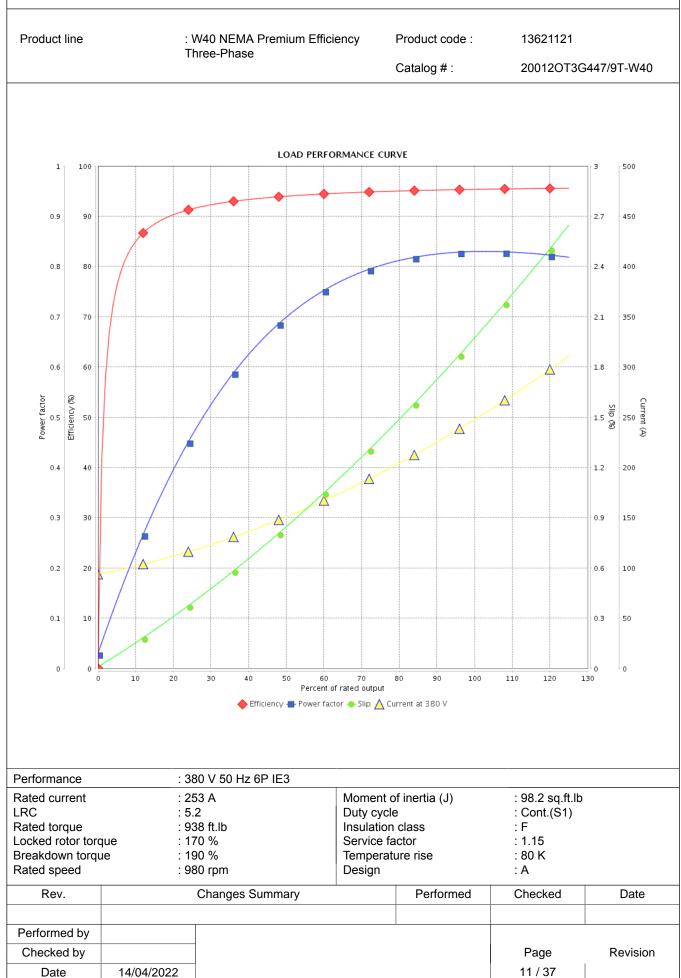
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#### Customer



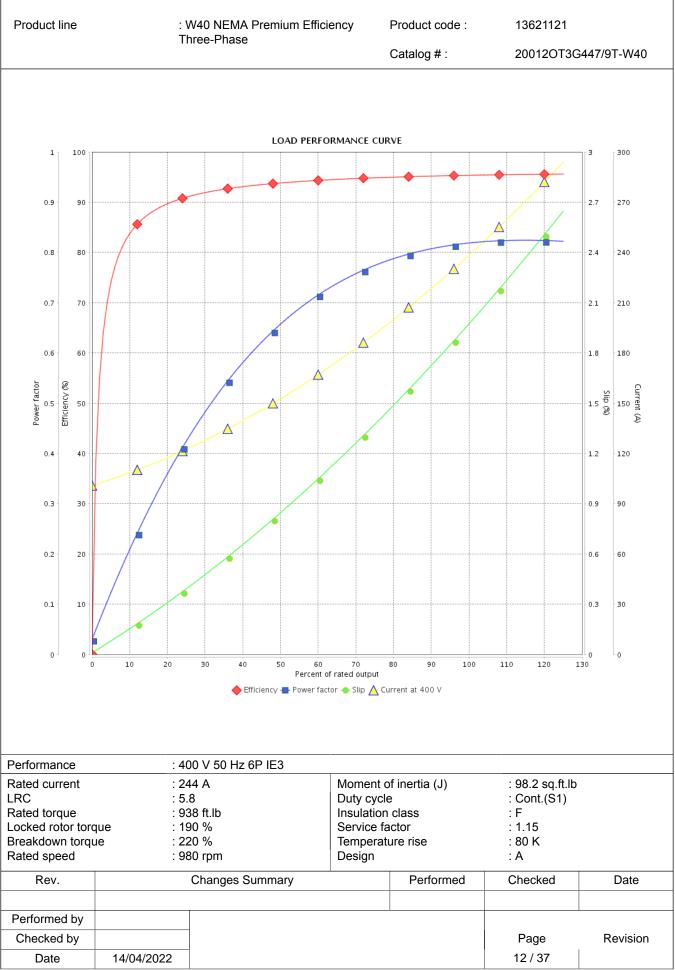
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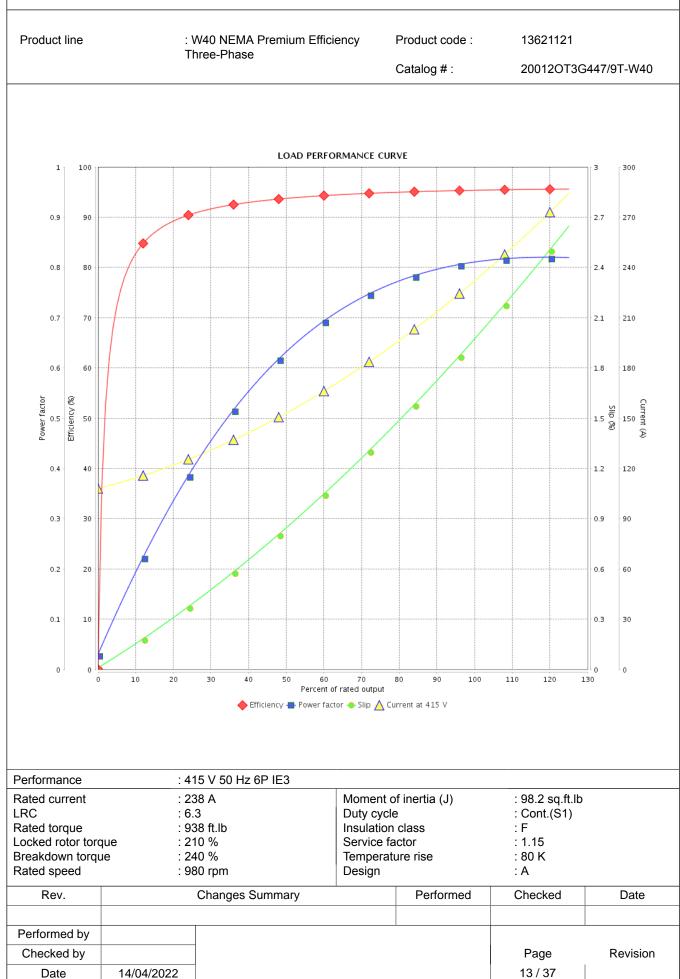
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#### Customer



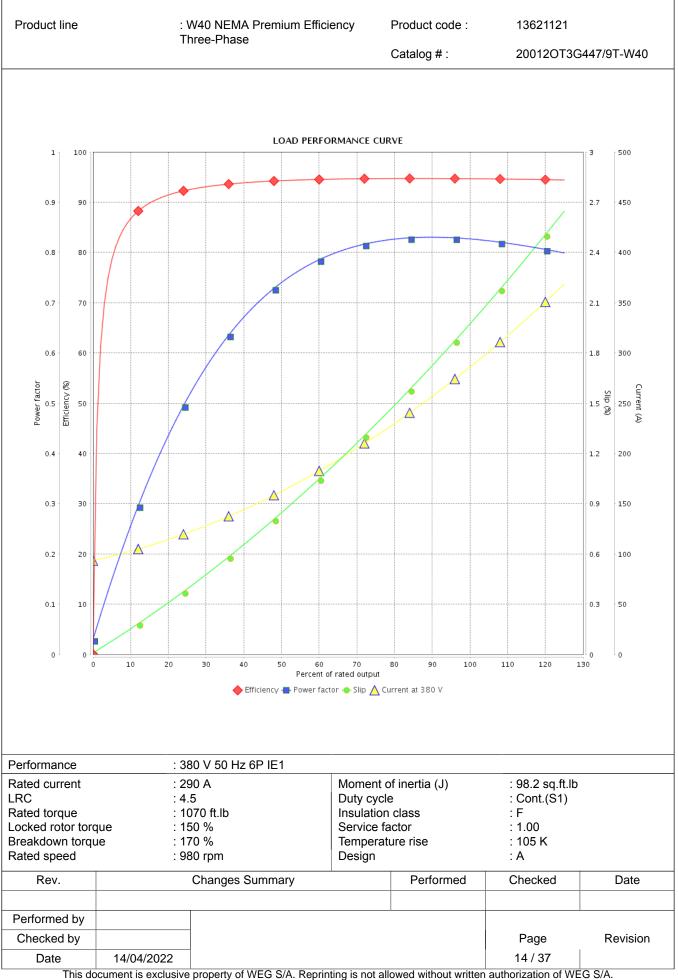
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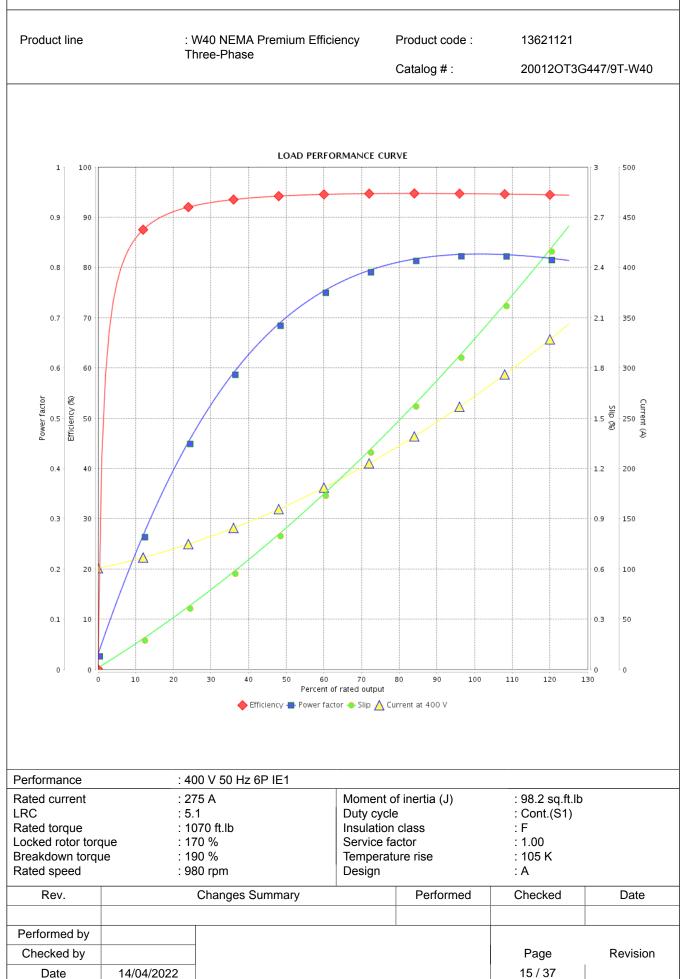
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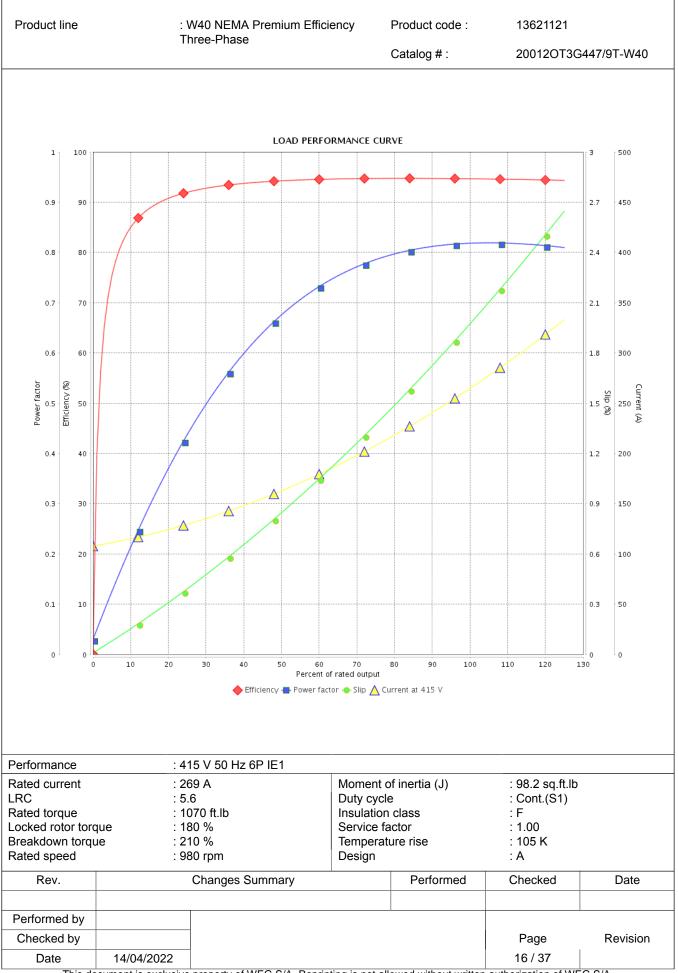
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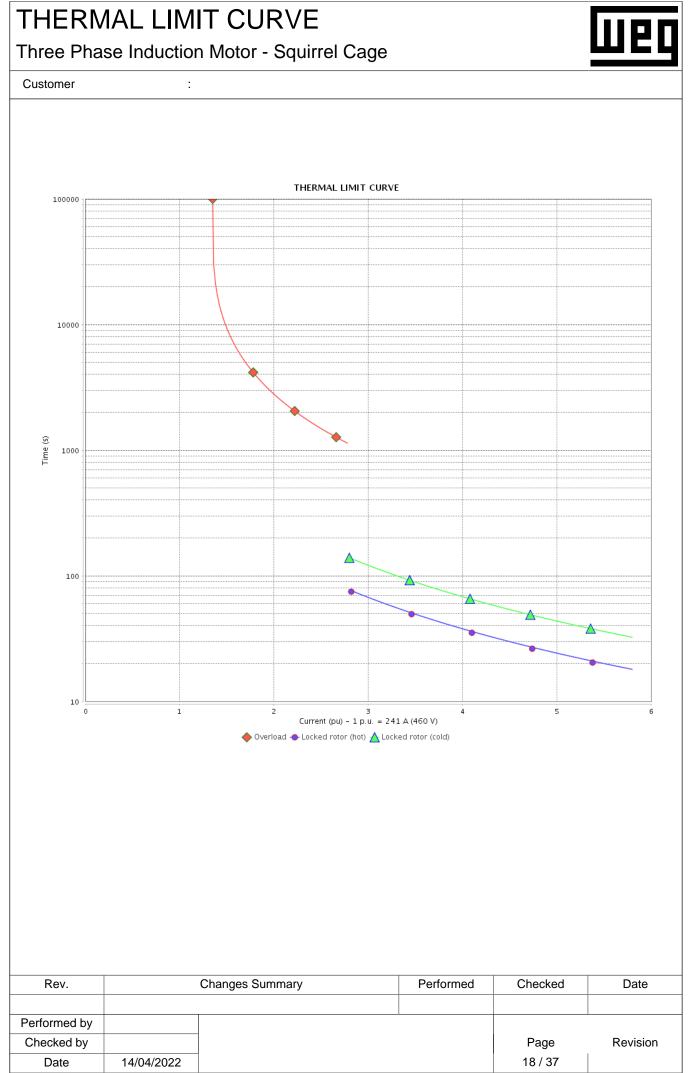
Three Phase Induction Motor - Squirrel Cage

#### Customer

	:1
Three-Phase Catalog # : 20012OT	T3G447/9T-W40

Шед

Performance	: 46	60 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5. : 88 que : 20 ie : 22	41 A .8 86 ft.lb 00 % 20 % 185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 98.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A		
Heating constant	t						
Cooling constant							
Rev.	Changes Summary			Performed	Checked	Date	
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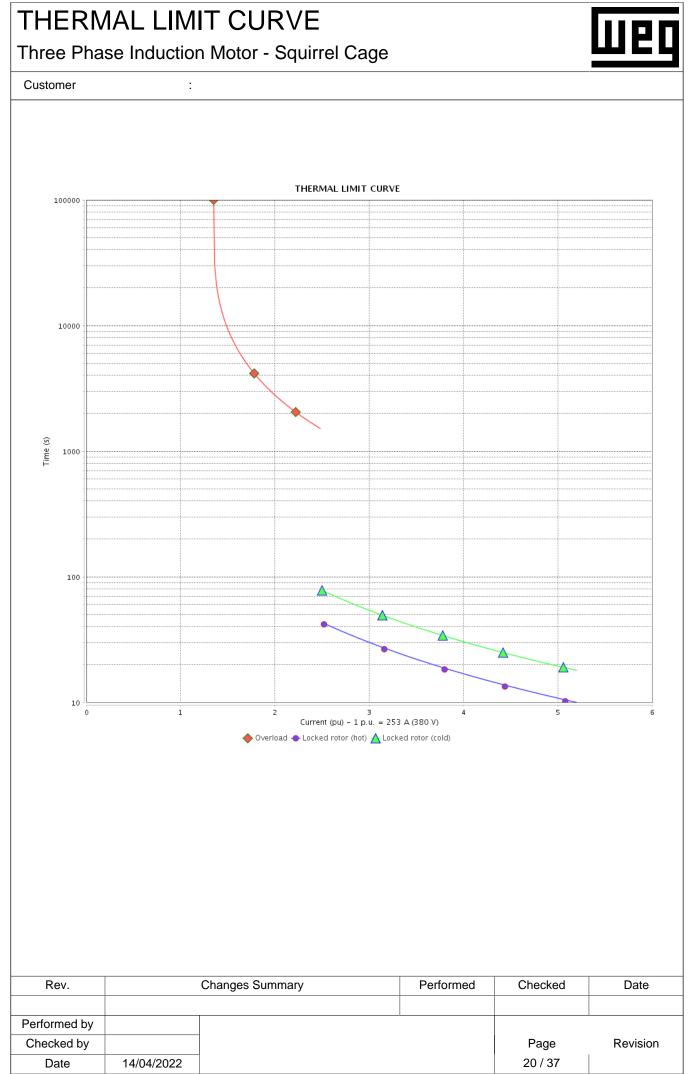
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13621121
	THEE-FHASE	Catalog # :	20012OT3G447/9T-W40

Шеq

Performance	: 3	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 5 : 9 jue : 1 ie : 1	53 A .2 38 ft.lb 70 % 90 % 80 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 98.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant	t					
Cooling constant						
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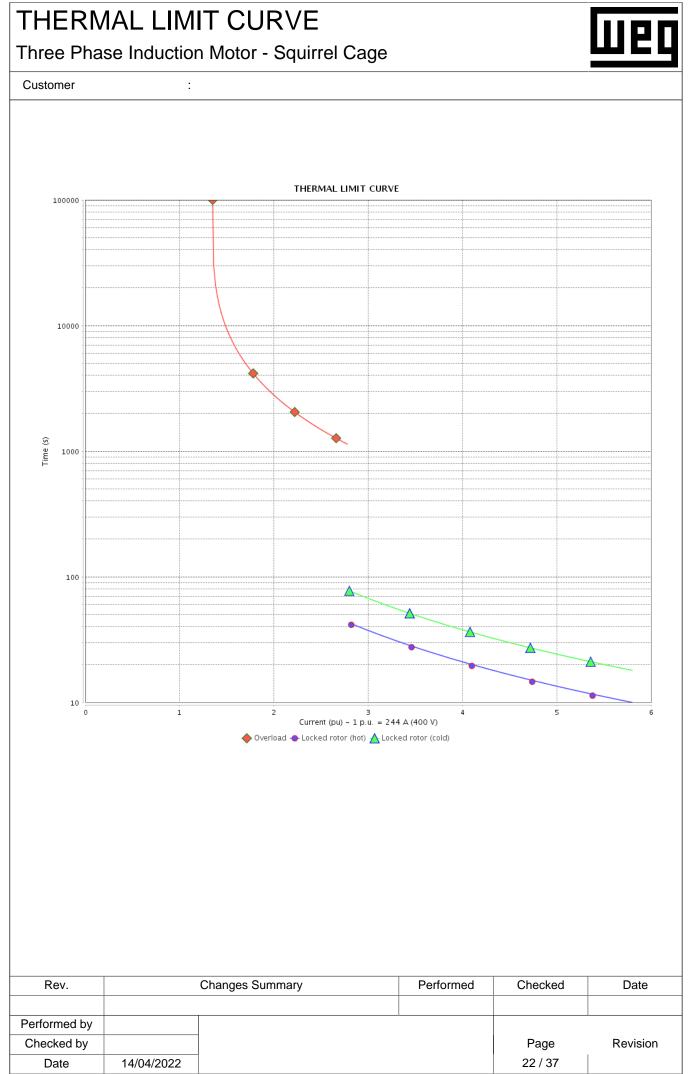
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#### Customer

	:1
Three-Phase Catalog # : 20012OT	T3G447/9T-W40

Шед

Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	lue Ie	: 244 A : 5.8 : 938 ft.lb : 190 % : 220 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 98.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant						
Cooling constant						
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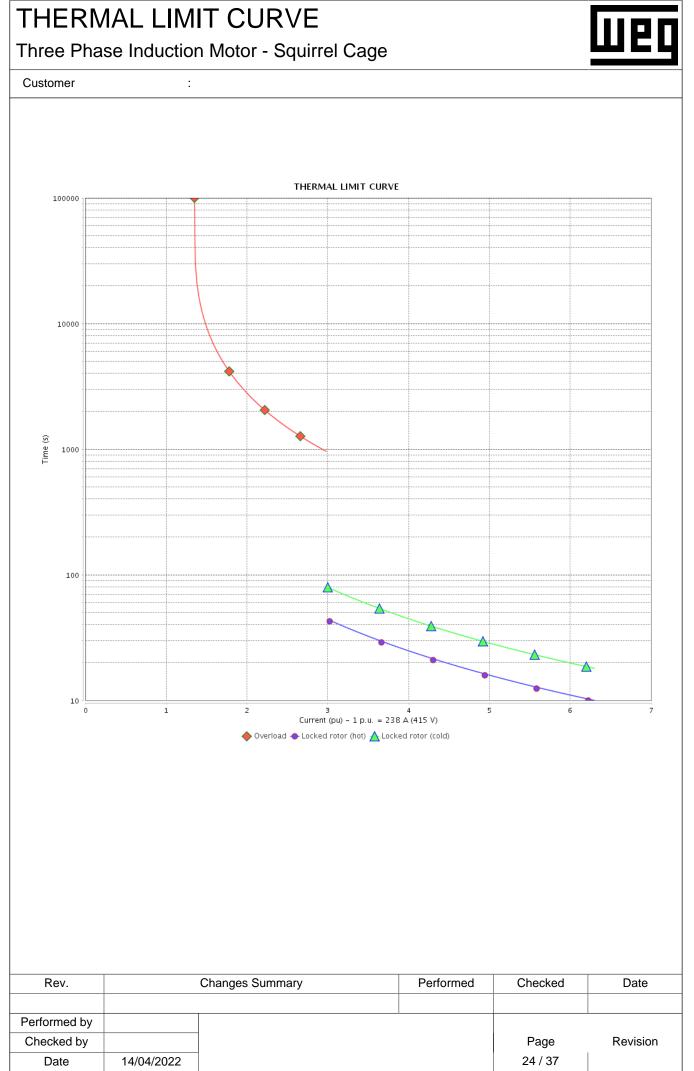
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#### Customer

	:1
Three-Phase Catalog # : 20012OT	T3G447/9T-W40

Шед

Rated current LRC	: 238 A				
Rated torque Locked rotor torque Breakdown torque Rated speed	: 230 A : 6.3 : 938 ft.lb : 210 % : 240 % : 980 rpm	Duty cycl Insulation Service fa Temperat	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Heating constant Cooling constant				: A	
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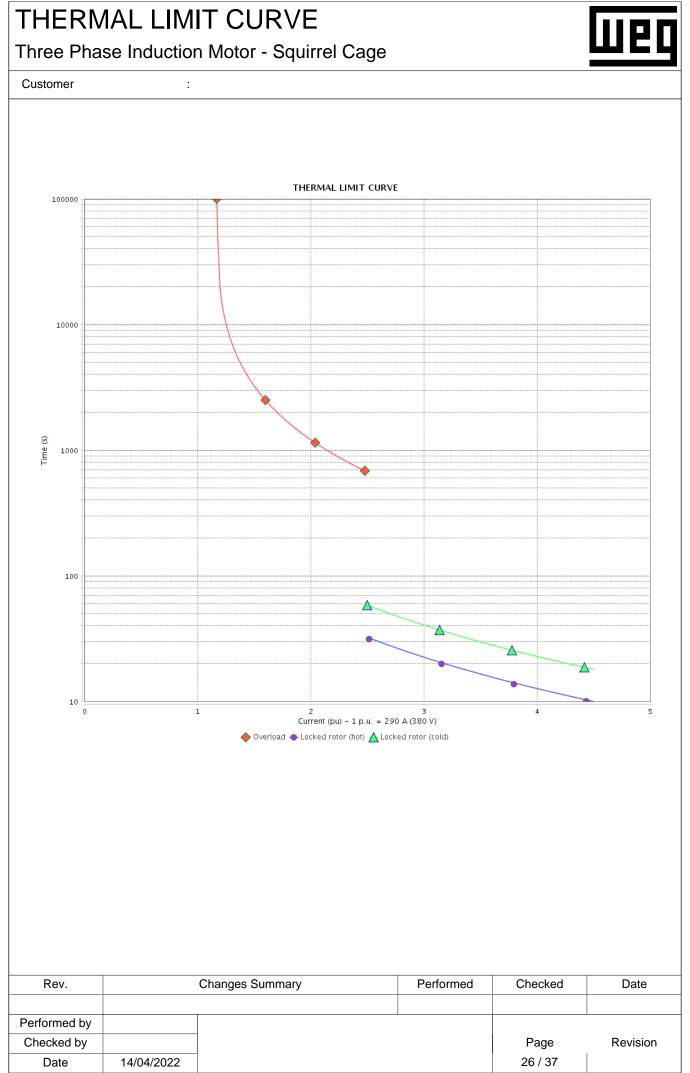
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13621121
		Catalog # :	20012OT3G447/9T-W40

Шед

Performance	: 3	80 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constant	: 4 : 1 : ue : 1 : 9	PO AMoment of ir5Duty cycle070 ft.lbInsulation cla50 %Service factor70 %Temperature30 rpmDesign		class ctor	: 98.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A	
Cooling constant						
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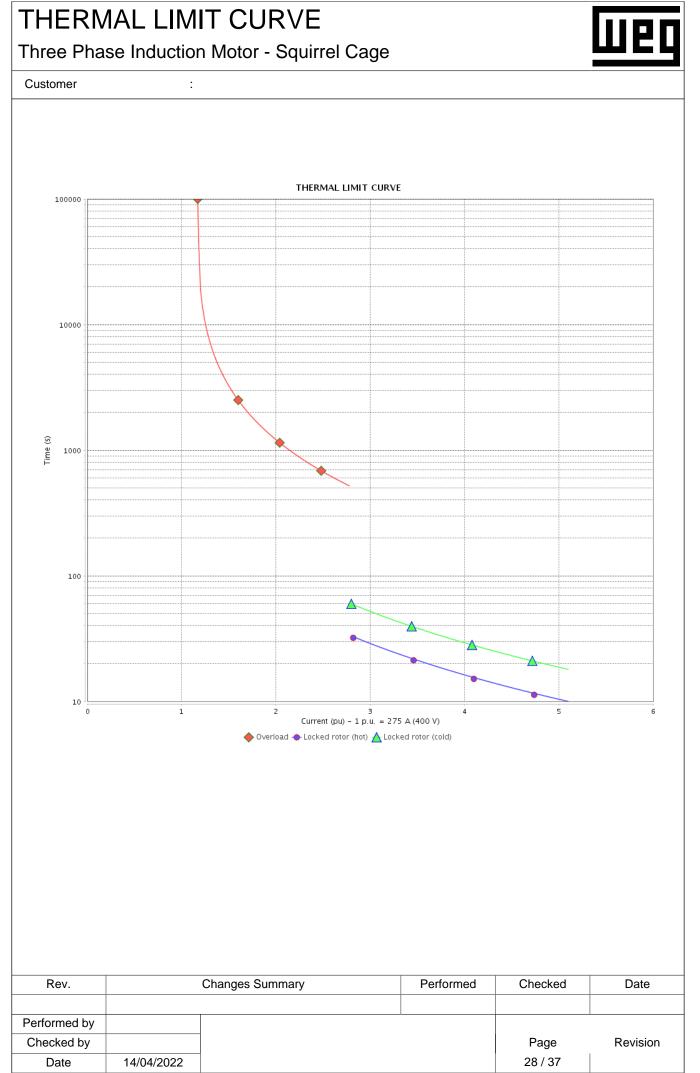
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	13621121
		Catalog # :	20012OT3G447/9T-W40

Шеq

Performance	: 40	00 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		75 A .1 070 ft.lb 70 % 90 % 80 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 98.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A	
Heating constant					·	
Cooling constant						
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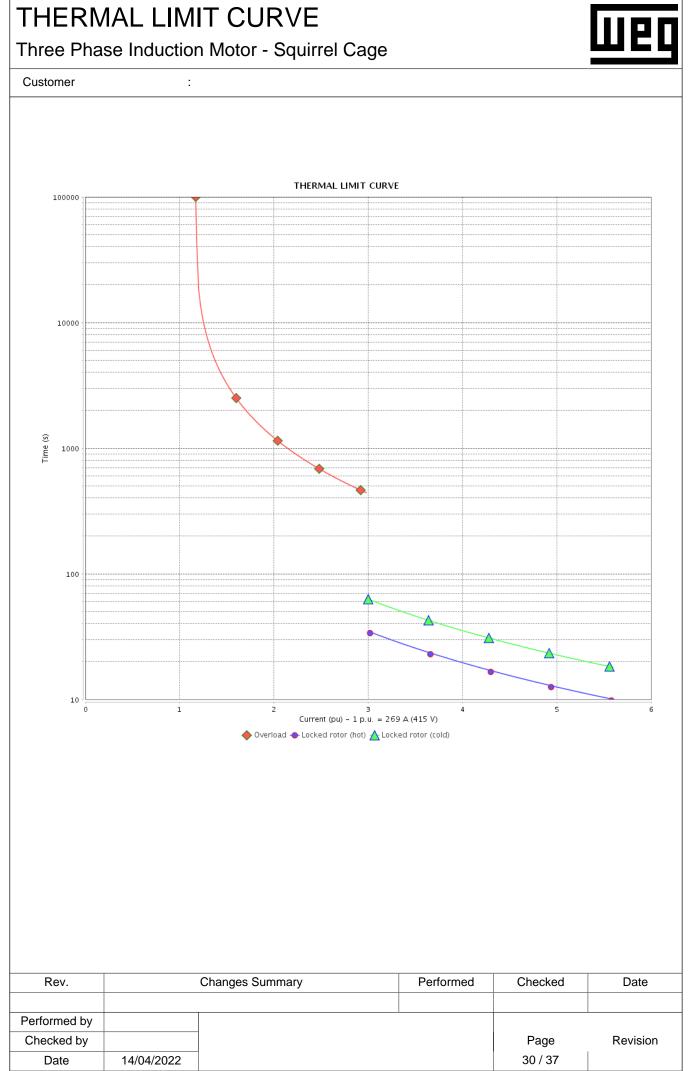
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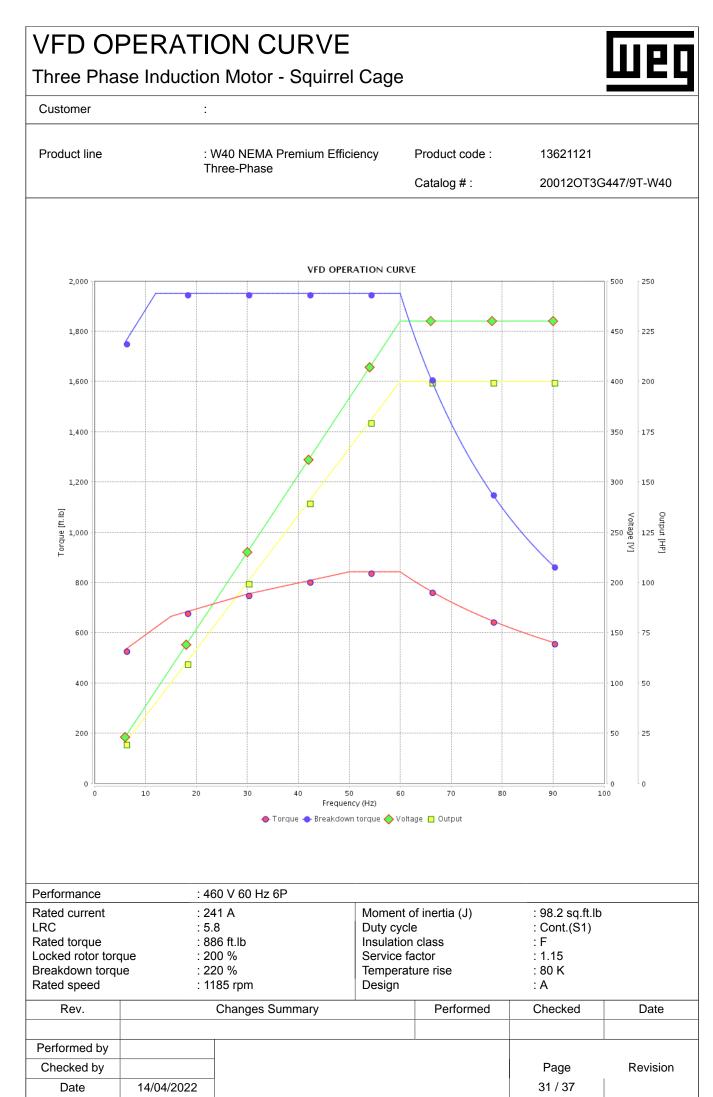
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	Thee-Flidse	Catalog # :	20012OT3G447/9T-W40

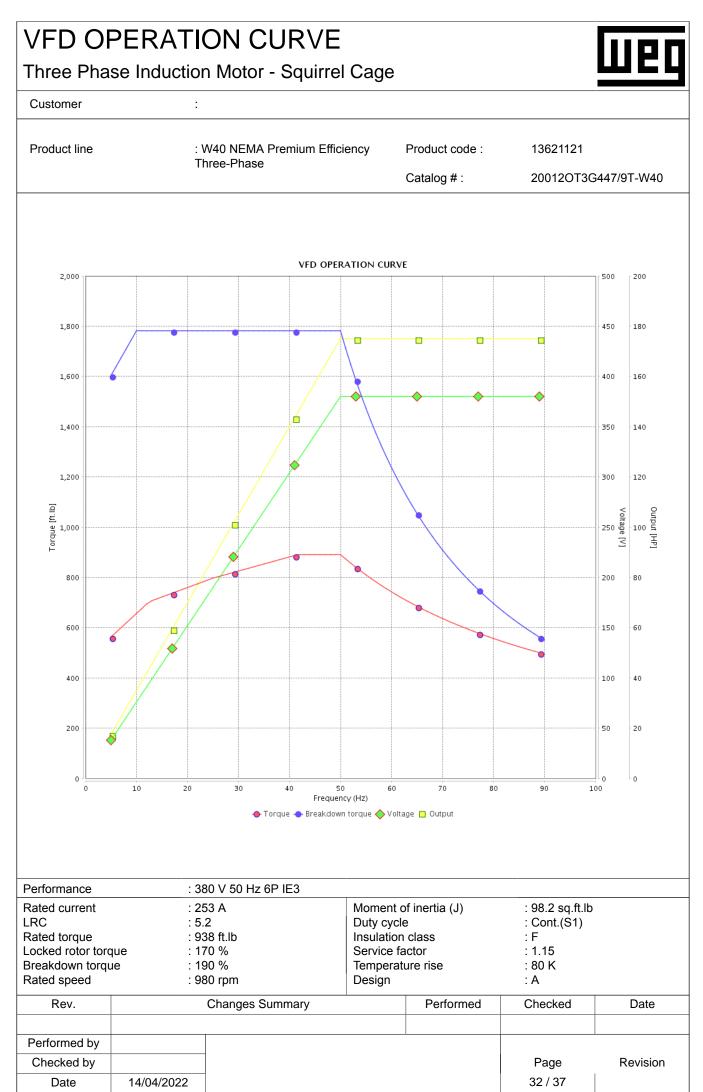
Шеq

Performance	: 4	15 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		69 A .6 070 ft.lb 80 % 10 % 80 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 98.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A	
Heating constant						
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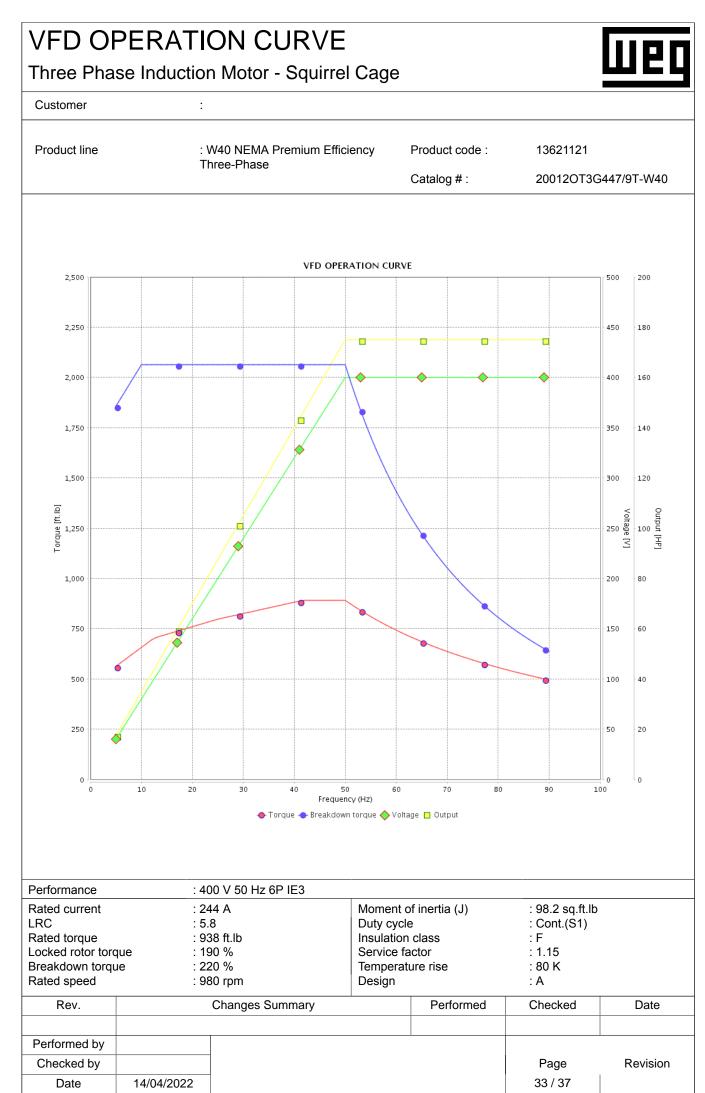


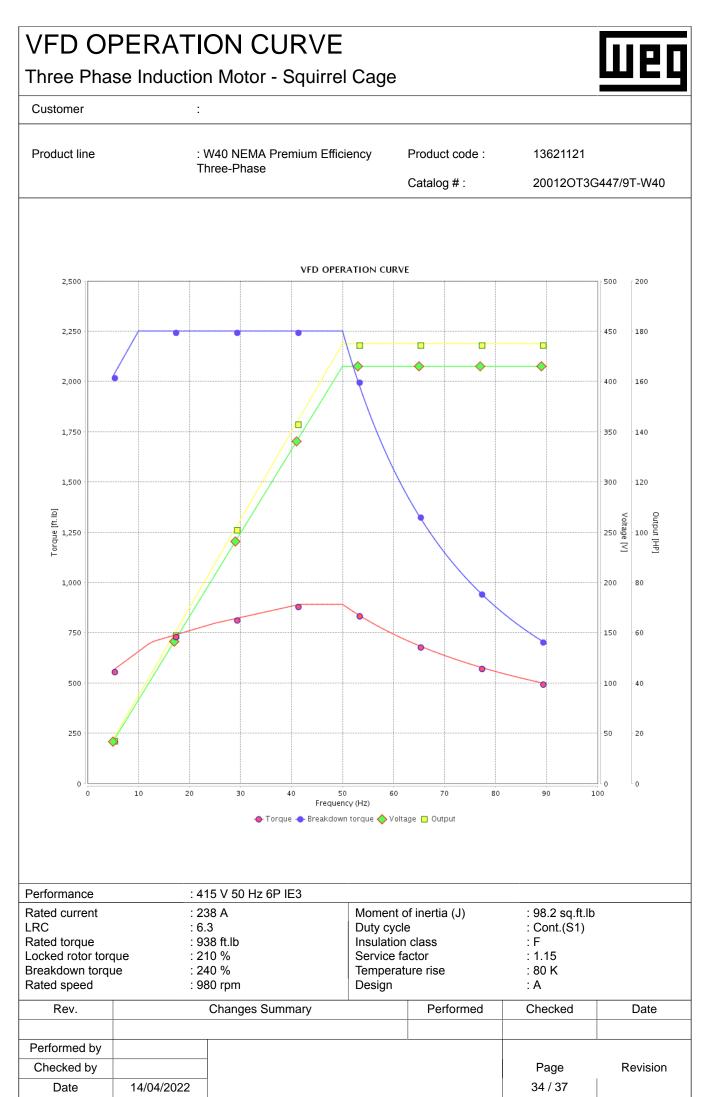
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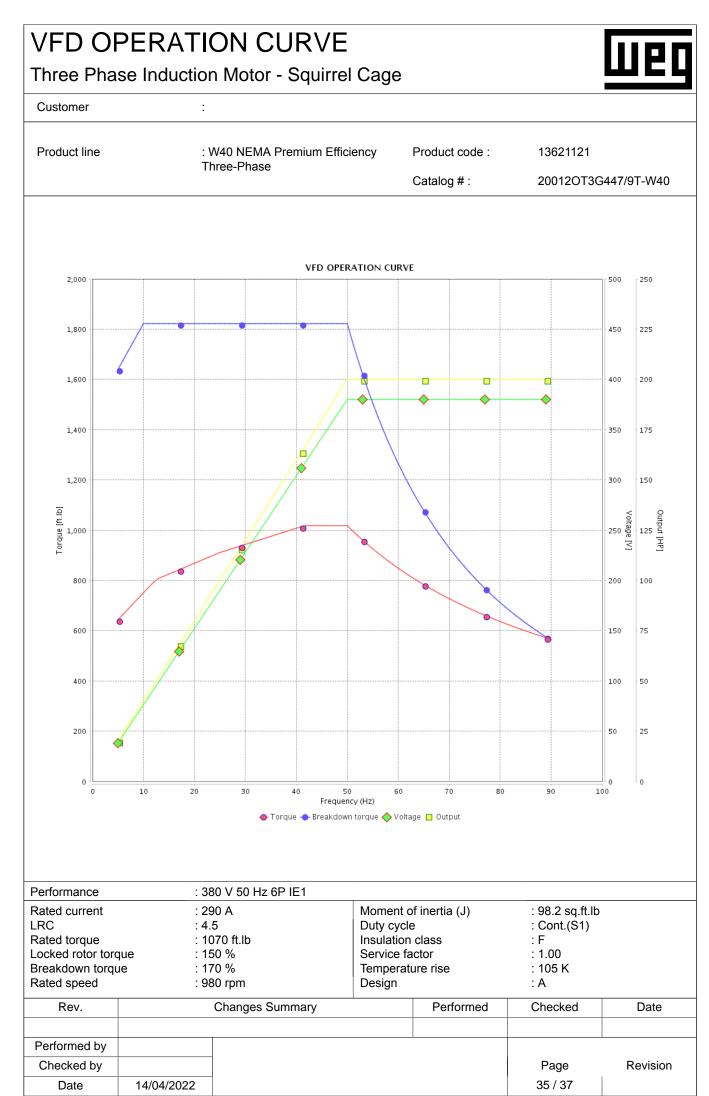


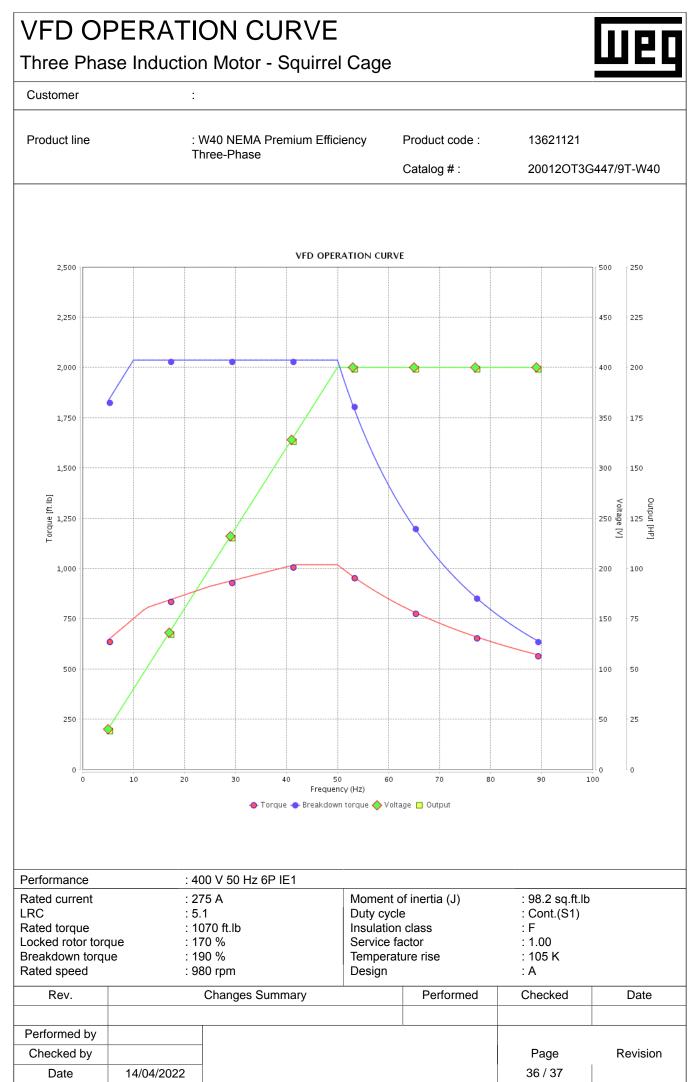


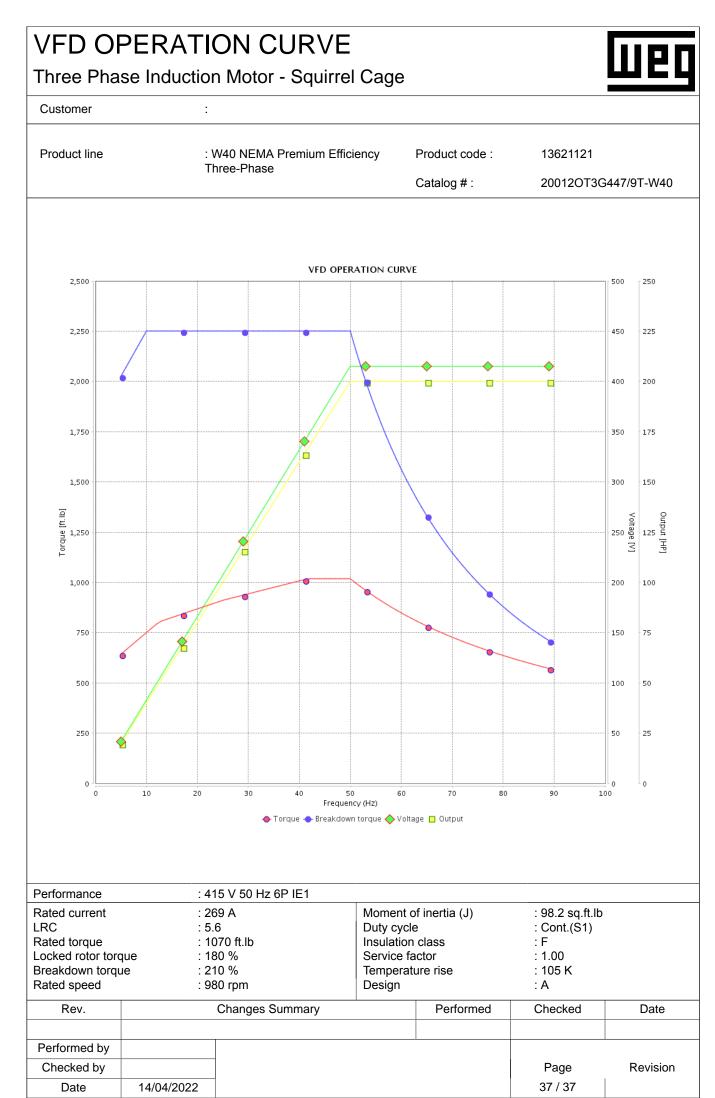
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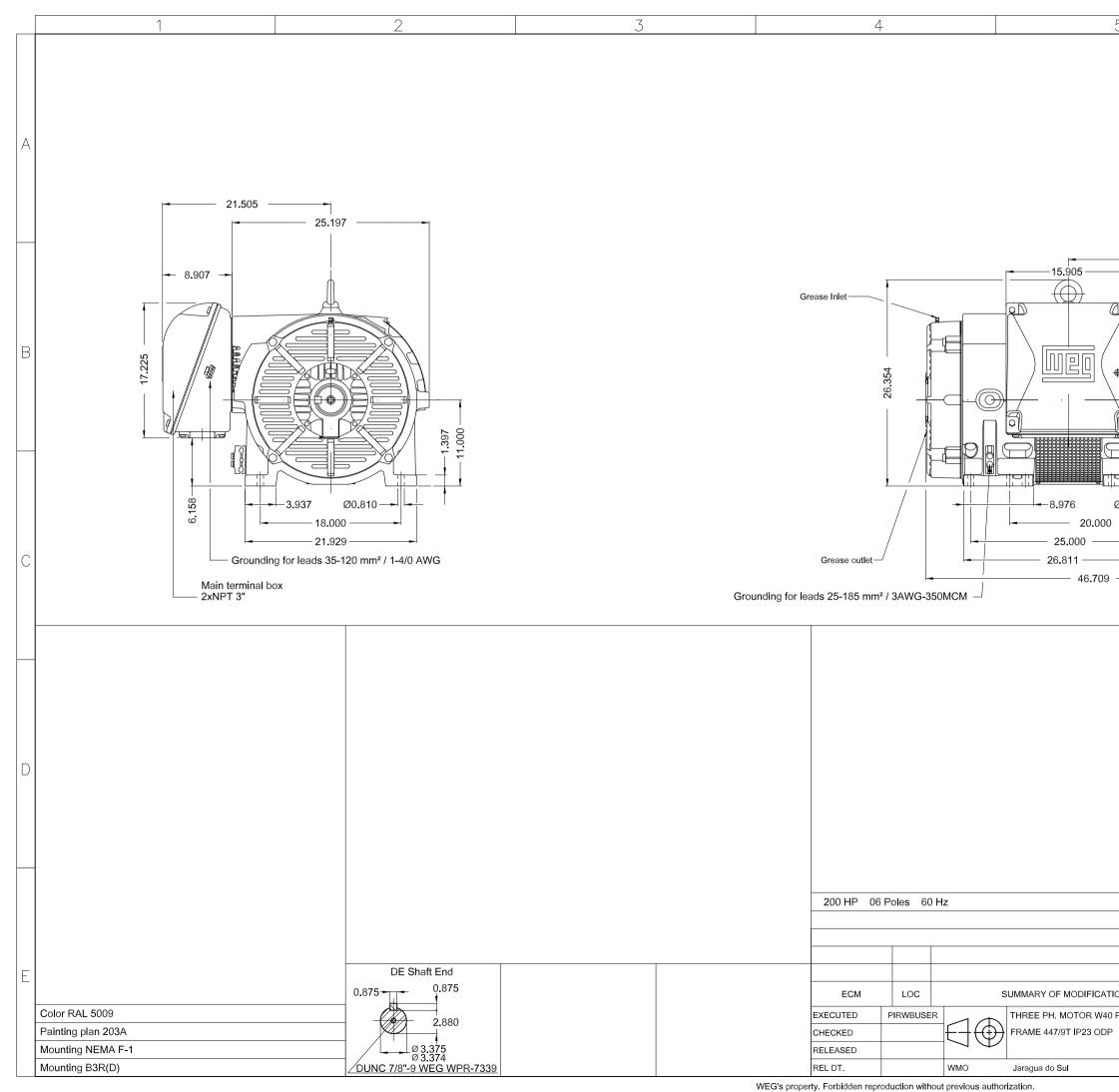












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			00			Dimensions in inches
				1.12	A	Dimensions in inches
				1:12	A	Dimensions in inches
			DO RELEASED	1:12 DATE	A	Dimensions in inches
	Greas		RELEASED			A3 Dimensions in inches

W40		40 82 294 <b>2</b> 190	***		с	<b>(h</b> )	3pt9 Js <b>Liste</b>	MOD.TO1#F0	KON	N C Lawy Wellid
MODEL 200120T3G447/9T-W40 MADE IN BRAZIL 13621121	PH 3 FR 4	47/9T		HP(kW) 20	00(1	50)		Hz 60		PART-WINDING WYE-DELTA START RUN START RUN
6447 BRA 121	v 460		A	241				IP23		0112 0110 0111 0111 0112 0110 0111 0112 010 0111   017 018 019 017 018 019 016 014 015 016
12073 IN 3621	NEMA NOM EF	FF	95	5.4	%	RPM	1185			ϘΤϐ ϘΤ4 ϘΤ5 ϘΤϐ ϘΤ4 ϘΤ5 ϘΤ7 ϘΤ8 ϘΤ9 ϘΤΙ ϘΤ2 ϘΤ3 ϘΤΙ ϘΤ2 ϘΤ3 ϘΤΙ ϘΤ2 ϘΤ3 ϘΤΙ ΦΤ2 ϘΤ3 L1 L2 L3 L1 L2 L3 L1 L2 L3 L1 L2 L3 L1 L2 L3
200 1.	ENCL ODP	DUTY	C	CONT.		INS.	cl. F	∆т 80 к		Æ → 6319-C3(45g) MOBIL POLYREX EM
ODEL	PF 0.82			des A	4	CODE	F	амв. 40°С	2	$\rightarrow 6314-C3(27g)$ MOBIL POLYREX EM = $\rightarrow 6314-C3(27g)$ 20000 h
×	SF 1.15	SFA	277				alt 1	000 m.a.s.	1.	1997 Lbs