DATA SHEET

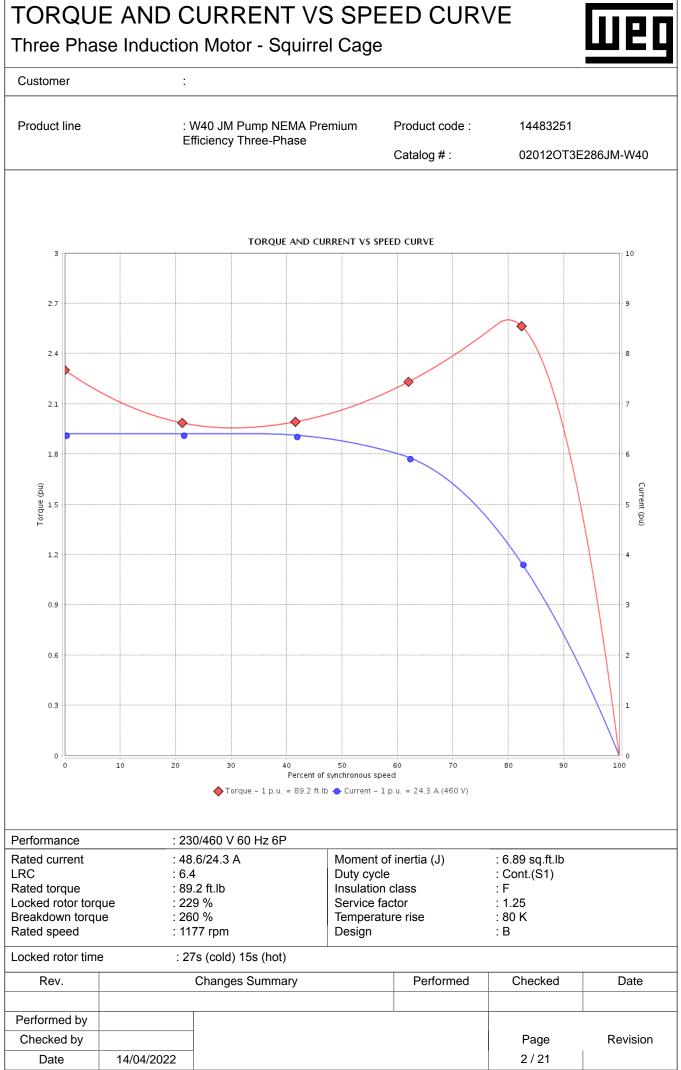
Three Phase Induction Motor - Squirrel Cage

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Customer

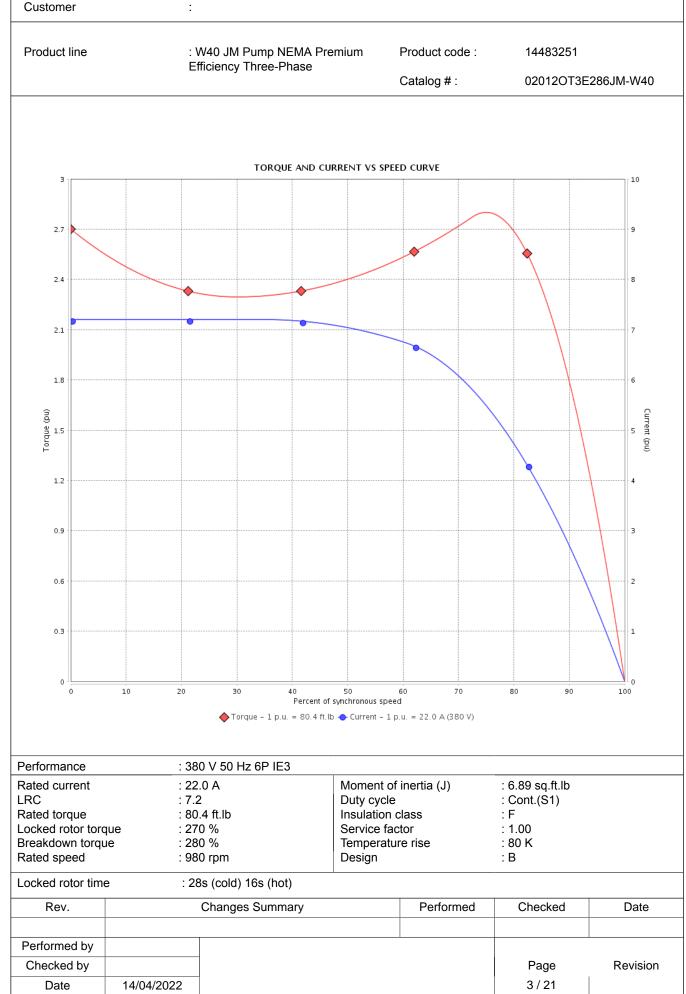
Product line		: W40 JM Pump NEM Efficiency Three-Phas	ium Prod	Product code :		14483251	
				Cata	log # :	02012O	T3E286JM-W40
Frame		: 284/6JM		Cooling meth	nod	: IC01 -	ODP
Insulation class		: F		Mounting		: F-1	
Duty cycle		: Cont.(S1)		Rotation		: Both (CW and CCW)	
Ambient tempera	ature	: -20°C to +40°C		Starting meth	hod	: Direct On Line	
Altitude		: 1000 m.a.s.l.		Approx. weig	ght³	: 401 lb	
Protection degree	е	: IP23		Moment of in	nertia (J)	: 6.89 se	q.ft.lb
Design		: B					
Dutput [HP]		20		15	15		15
Poles		6		6	6		6
requency [Hz]		60		50	50		50
Rated voltage [V]		230/460		380	400		415
Rated current [A]		48.6/24.3		22.0	21.4		20.9
. R. Amperes [A]		311/156		158	161		157
RC [A]		6.4x(Code G)	7.2	2x(Code H)	7.5x(Co	de J)	7.5x(Code J)
lo load current [A	1	18.8/9.40		9.30	10.0		10.5
Rated speed [RPI		1177		980	980		984
Slip [%]	۲.	1.92		2.00	2.00		1.60
Rated torque [ft.lb	1	89.2		80.4	80.4		80.0
ocked rotor torqu		229		270	310		340
Breakdown torque	; [⁷ 0]	260		280	320		340
Service factor		1.25		1.00	1.00		1.00
emperature rise		80 K		80 K	80 K		80 K
ocked rotor time		27s (cold) 15s (hot)	28s (d	cold) 16s (hot)	28s (cold) 1	6s (hot)	28s (cold) 16s (hot)
loise level ²		59.0 dB(A)					
	25%	91.5		89.7	89.7		89.7
	50%	91.7		89.9	89.9)	89.9
Efficiency (%)	75%	92.4		90.3	90.3	3	90.3
	100%	92.4		90.3	90.3		90.3
	25%	0.45		0.42	0.39		0.37
	50%	0.43		0.68	0.53		0.62
Power Factor	75%	0.80		0.08	0.04		0.02
	100%	0.80		0.79	0.76		
	100%			1		-	0.81
Bearing type			<u>rive end</u> 1 Z C3	Foundation lo Max. traction	bads		
			ithout		esion		
Sealing				Max. compres	331011		
Lubrication inter-			ing Seal 000 h				
Lubrication inter							
Lubricant amour	ii.		11 g				
Lubricant type		: Mobil Polyrex E					
Notes USABLE @208V	′ 53.7A SF 1.	15 SFA 61.8A					
must be eliminate (1) Looking the m	ed. notor from the 1m and with t weight subject	ncel the previous one, where shaft end. Solerance of +3dB(A).	hich				s with sinusoidal stipulated in NEMA
(3) Approximate						Checked	Data
 (3) Approximate v manufacturing pr (4) At 100% of fu 		Changes Summary	,	P	Performed		
3) Approximate manufacturing pr		Changes Summary	,	P	Performed	Checkeu	Date
 (3) Approximate v manufacturing pr (4) At 100% of fu 		Changes Summary	,	P	Performed	Checked	
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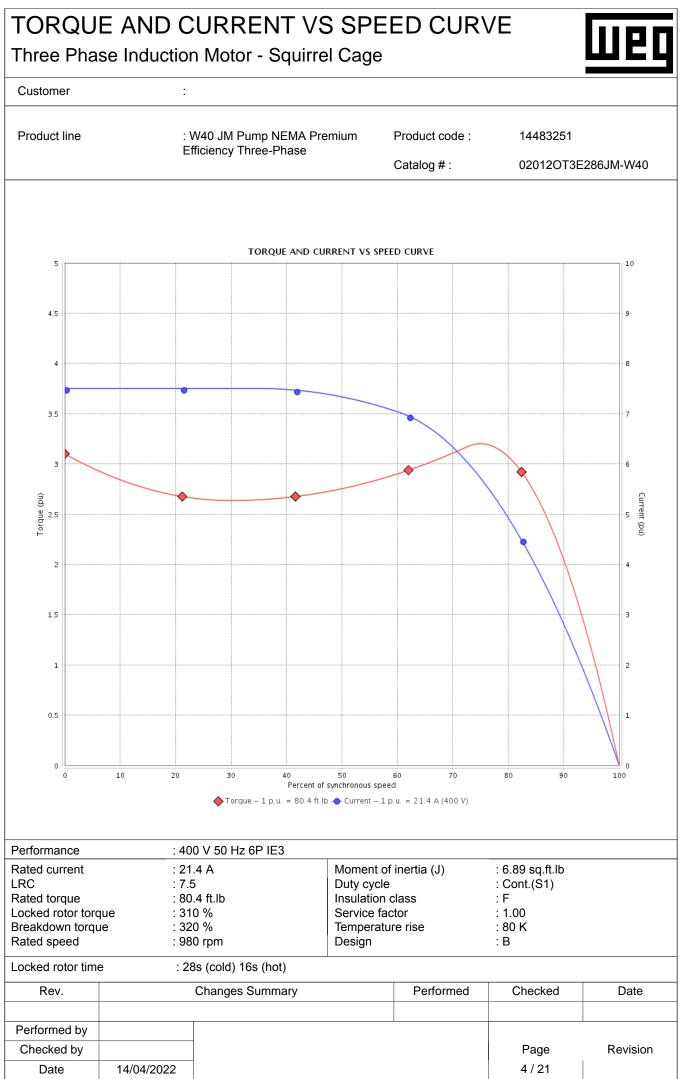
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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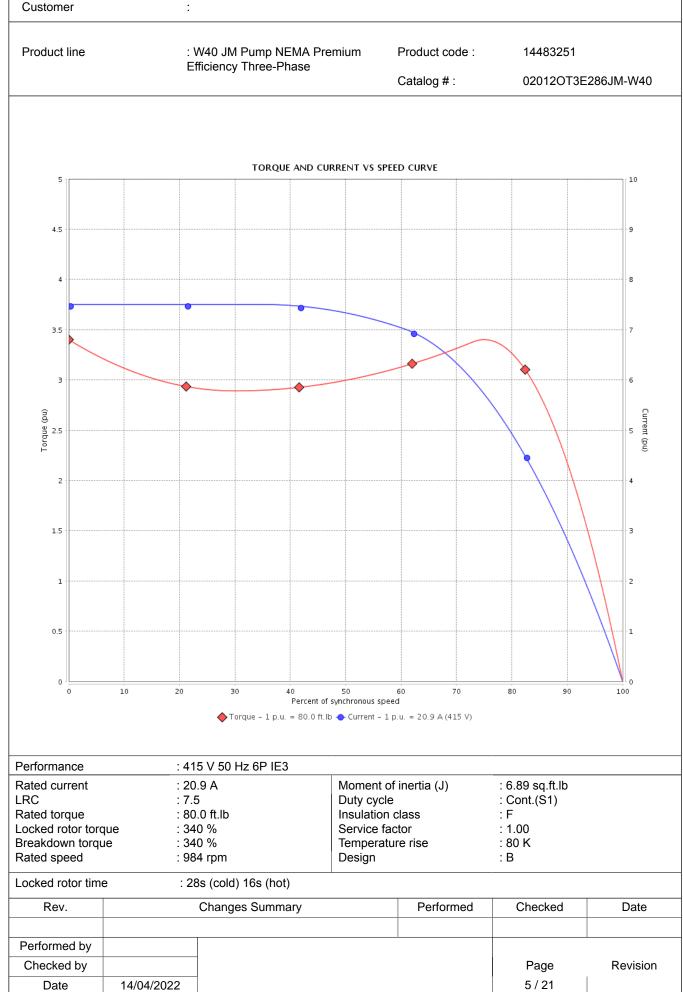


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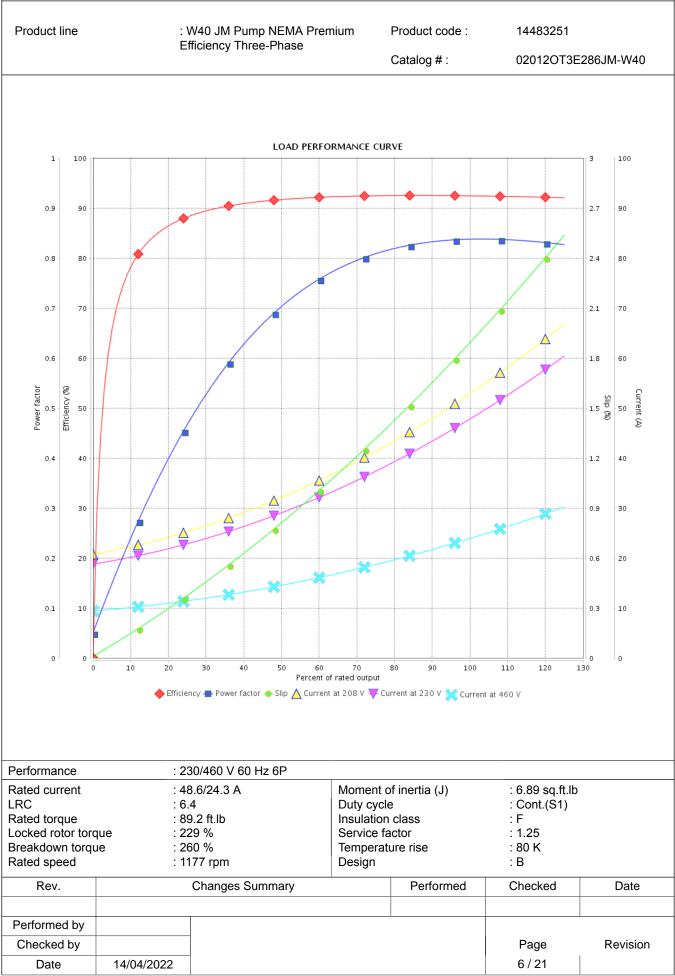
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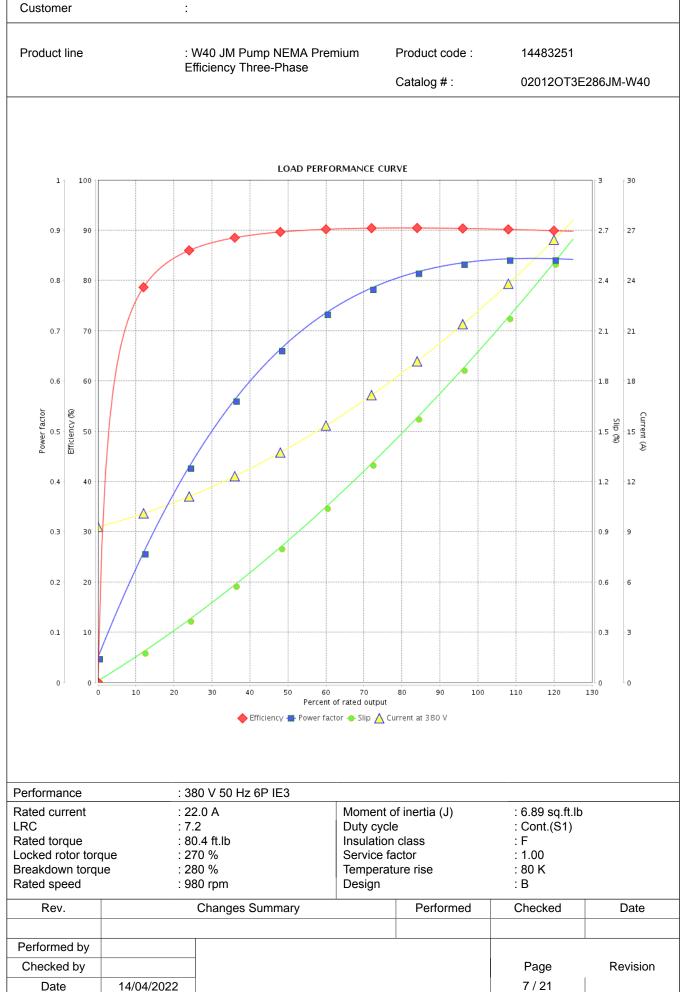


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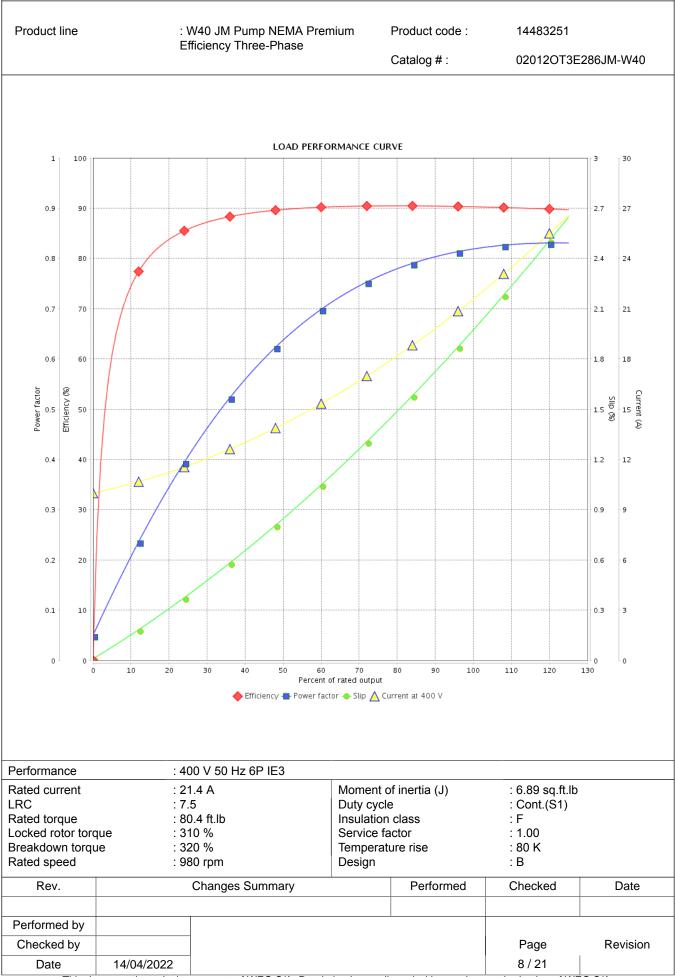
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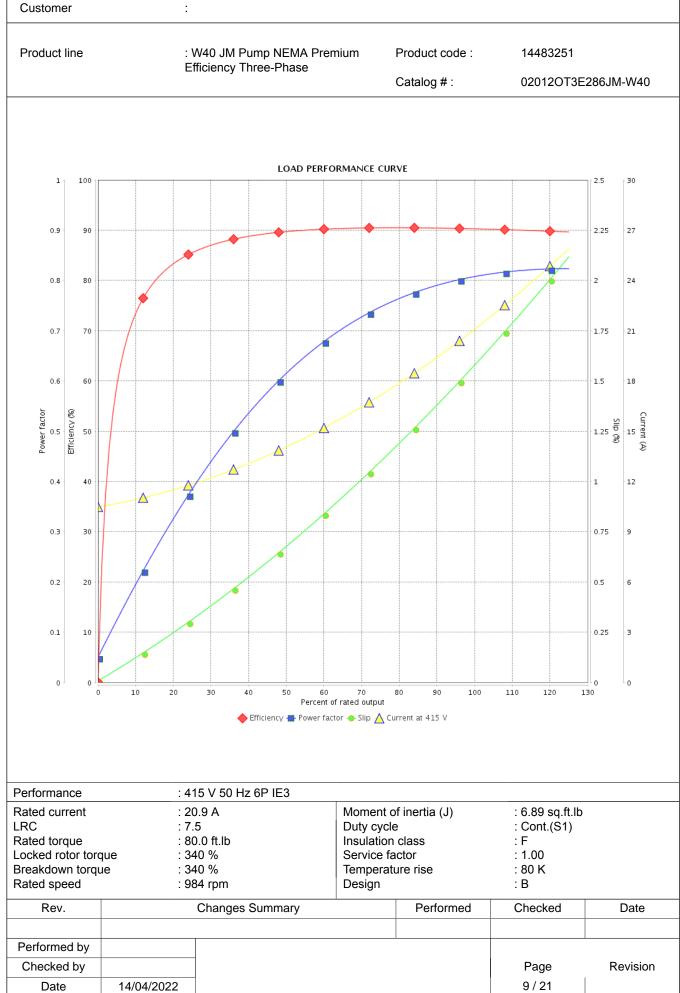


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THERMAL LIMIT CURVE

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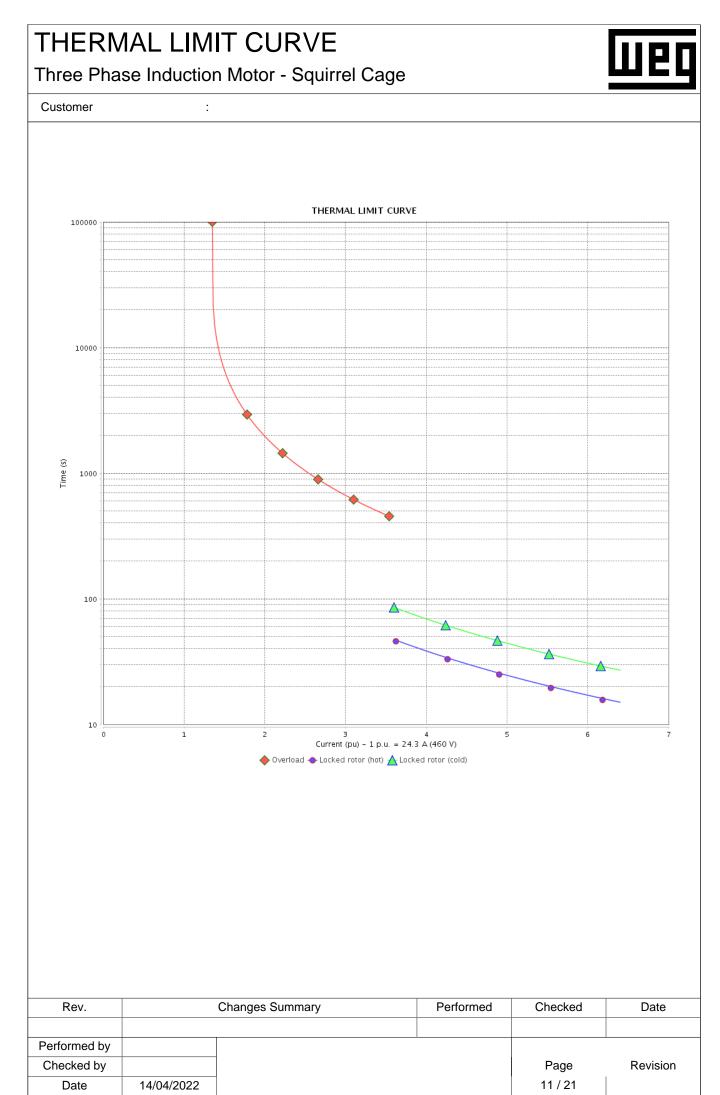
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Customer

Product line		: W40 JM Pump NEMA Premium		Product code :	14483251		
		Efficiency Three-Phase		Catalog # :	02012OT3E28	36JM-W40	
				-			
Performance		230/460 V 60 Hz 6P	•• •				
Rated current LRC		48.6/24.3 A 6.4	Moment of inertia (J) Duty cycle		: 6.89 sq.ft.lb : Cont.(S1)		
Rated torque		: 89.2 ft.lb Insulati		class	: F		
Locked rotor toro Breakdown torqu		: 229 % Service : 260 % Tempera			: 1.25 : 80 K		
Rated speed		1177 rpm	Temperature rise Design		: B		
Heating constan	t						
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
Performed by		_					
Checked by					Page	Revision	
Date	14/04/2022				10/21		

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THERMAL LIMIT CURVE

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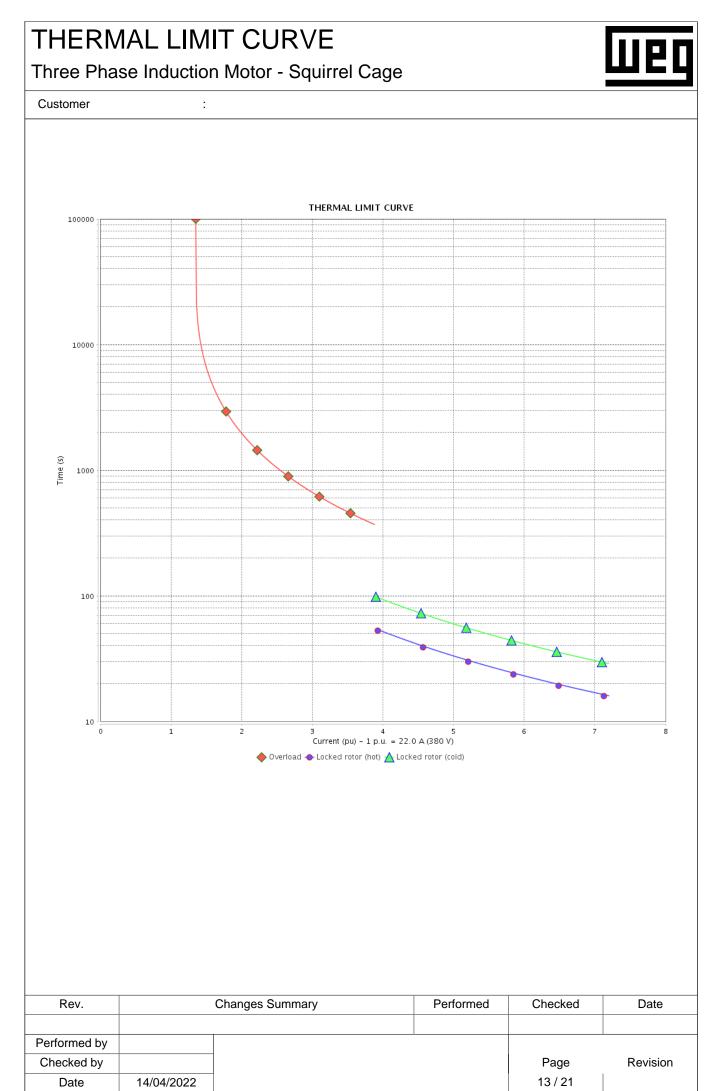
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Customer

Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14483251	14483251	
	_			Catalog # :	02012OT3E2	86JM-W40	
Performance	: 3	80 V 50 Hz 6P IE3					
LRC Rated torque Locked rotor torque Breakdown torque		: 22.0 A Moment : 7.2 Duty cyc : 80.4 ft.lb Insulation : 270 % Service : 280 % Temperation : 980 rpm Design		class ctor	: 6.89 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant							
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
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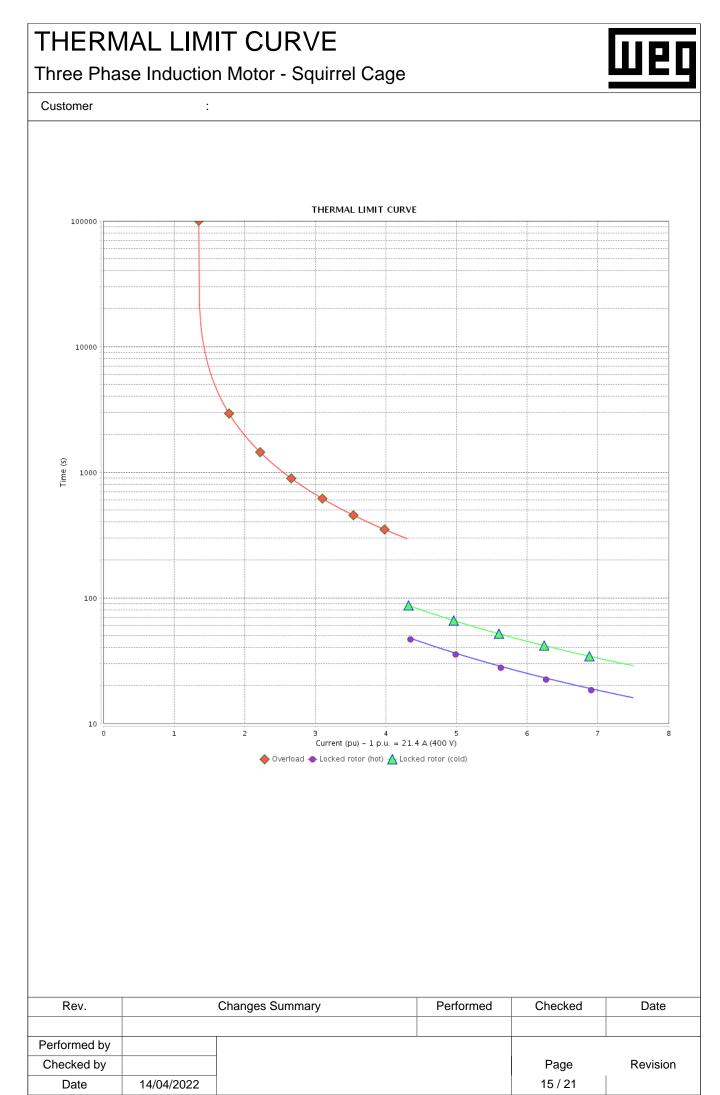


Customer

Product line	: \	N40 JM Pump NEMA Prem	um Product code :		14483251	
		fficiency Three-Phase		Catalog # :	02012OT3E2	286 IM-\W/40
				Catalog # .	0201201322	.003101-0040
D						
Performance		00 V 50 Hz 6P IE3				
Rated current LRC		1.4 A	Moment of inertia (J) Duty cycle		: 6.89 sq.ft.lb : Cont.(S1)	
Rated torque			Insulation class		: F	
Locked rotor tor			Service factor		: 1.00	
Breakdown torqu	n torque : 320 %		Temperature rise		: 80 K	
Rated speed	: 98	30 rpm	Design		: B	
Heating constan	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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THERMAL LIMIT CURVE

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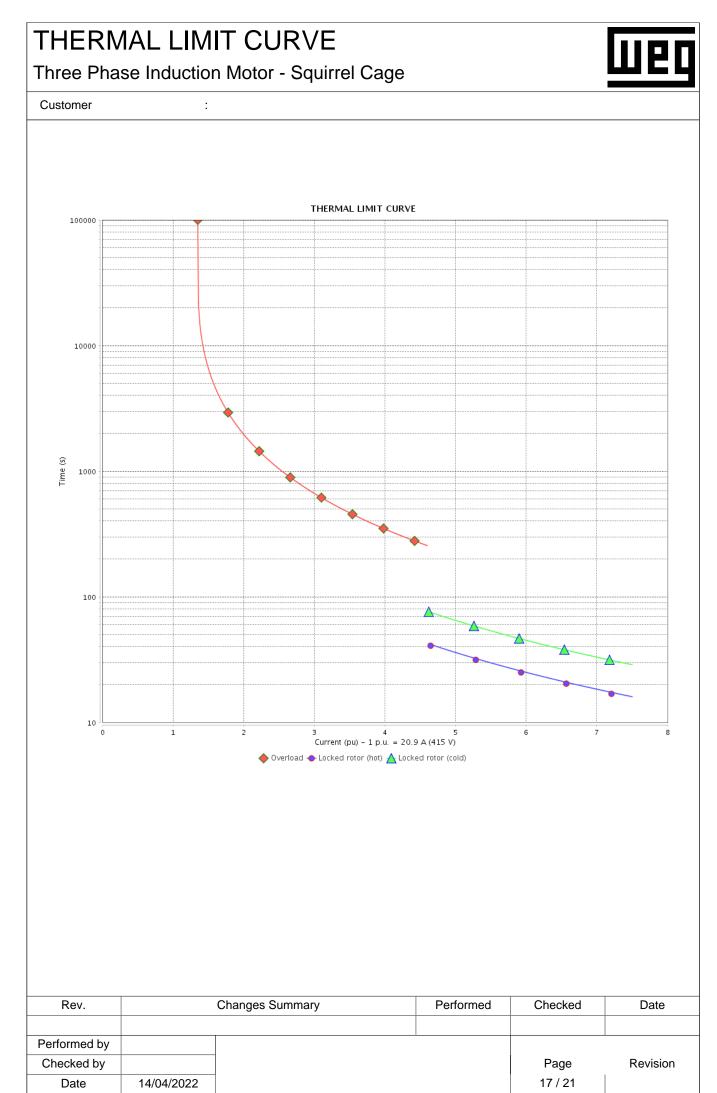


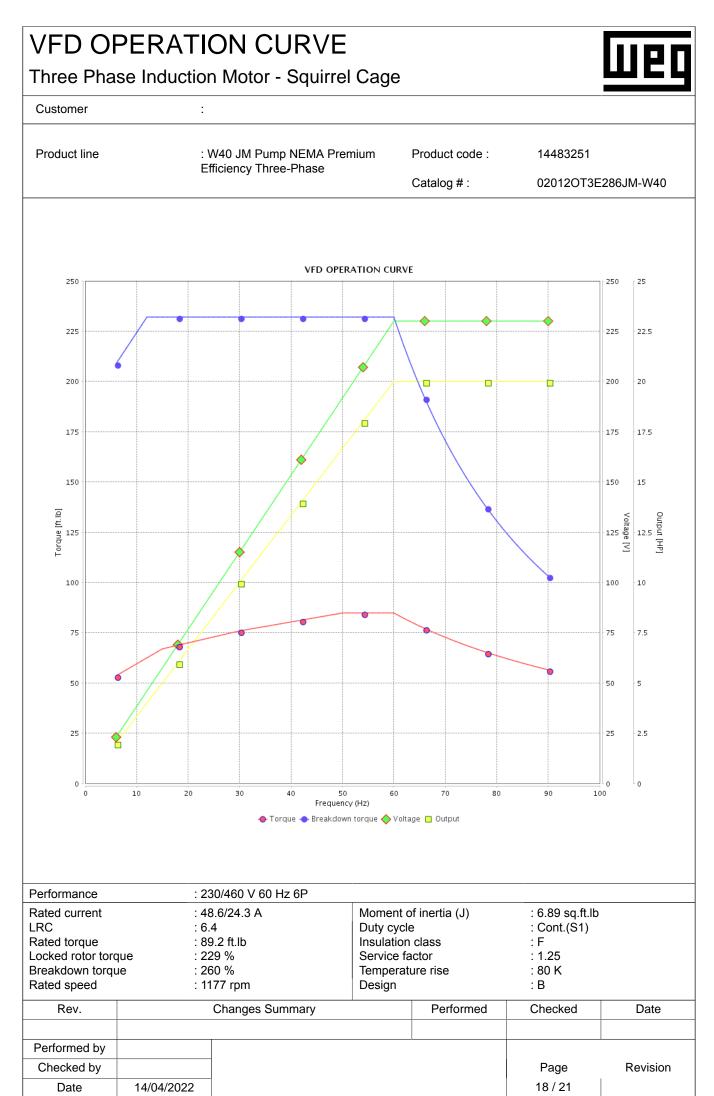
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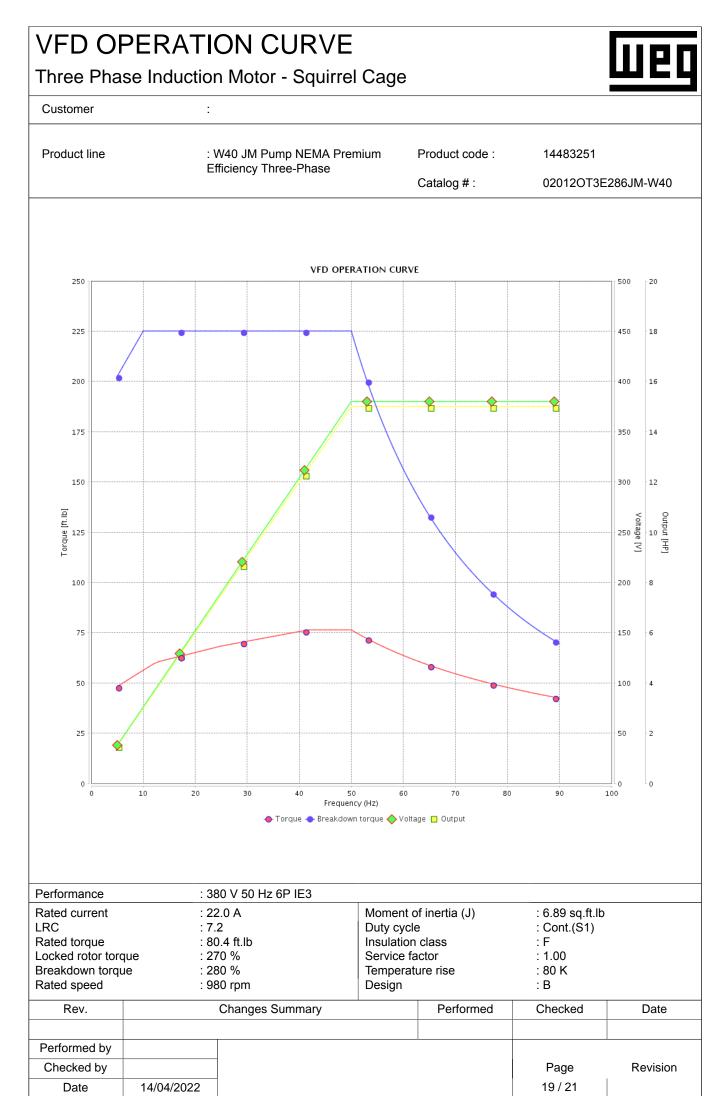
Product line	: \	N40 JM Pump NEMA Prem	ium Product code :		14483251		
		ficiency Three-Phase	Catalog # :		02012OT3E286JM-W40		
					0201201022		
Performance	: 41	15 V 50 Hz 6P IE3					
Rated current).9 A	Moment o	f inertia (J)	: 6.89 sq.ft.lb		
LRC : 7.5		5	Duty cycle		: Cont.(S1)		
Rated torque	Rated torque : 80.0 ft.lb		Insulation class		: F		
	cked rotor torque : 340 %		Service factor Temperature rise		: 1.00 : 80 K		
Rated speed	akdown torque : 340 % ed speed : 984 rpm		Design		: B		
			-				
Heating constan Cooling constan							
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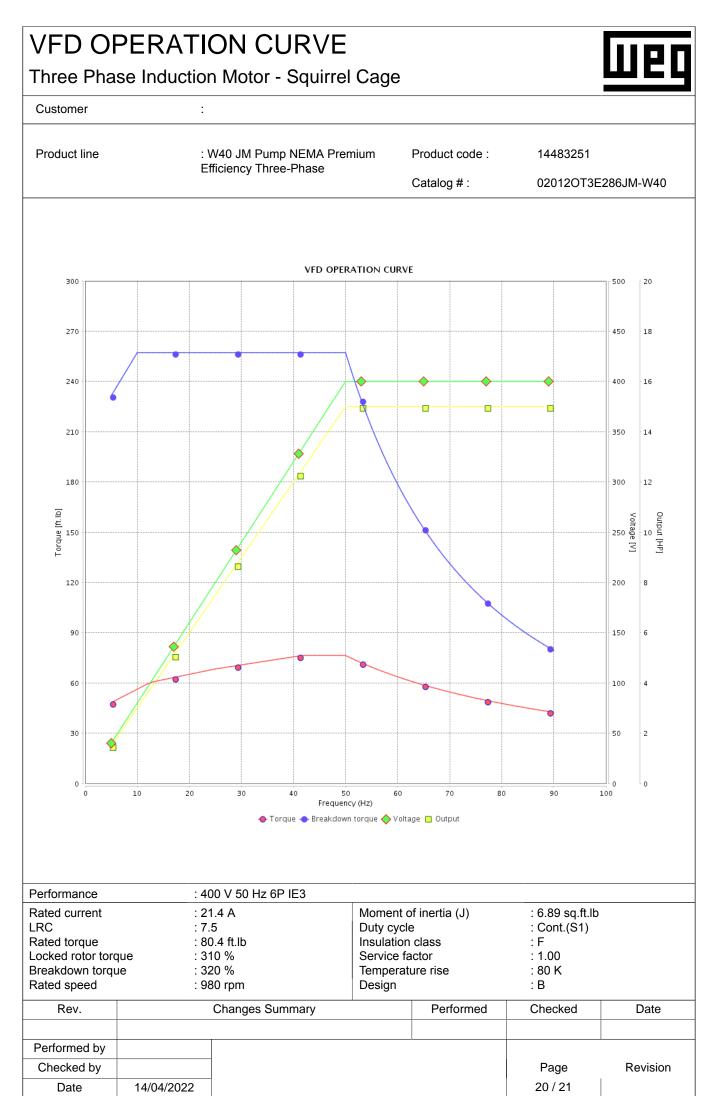
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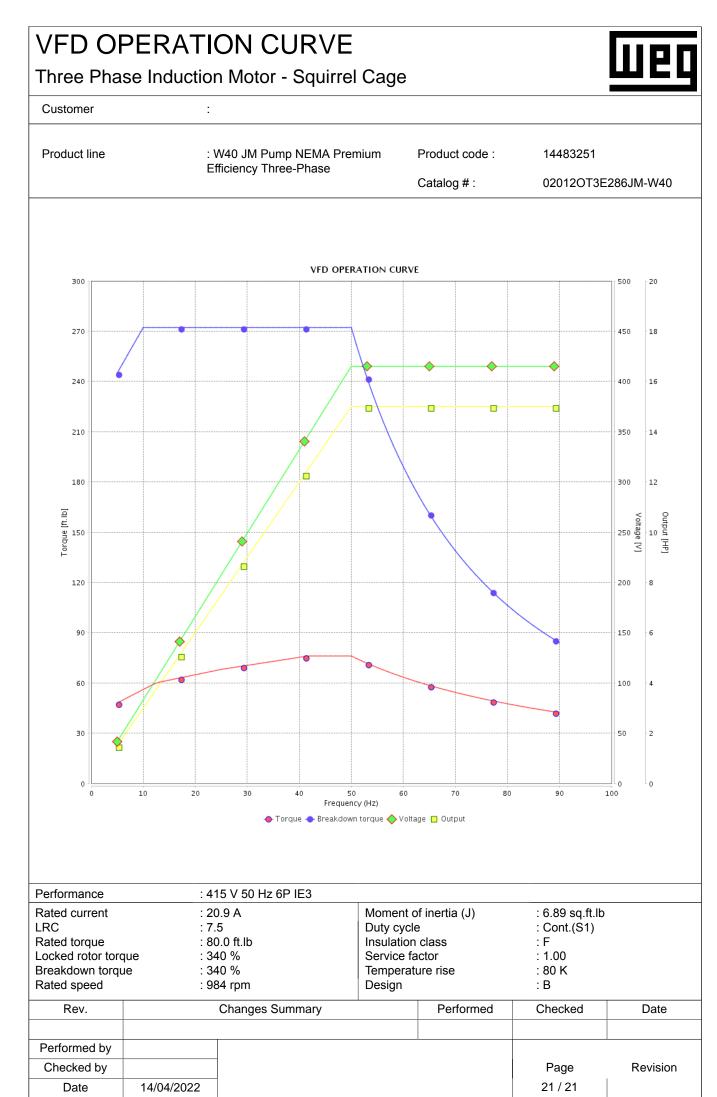
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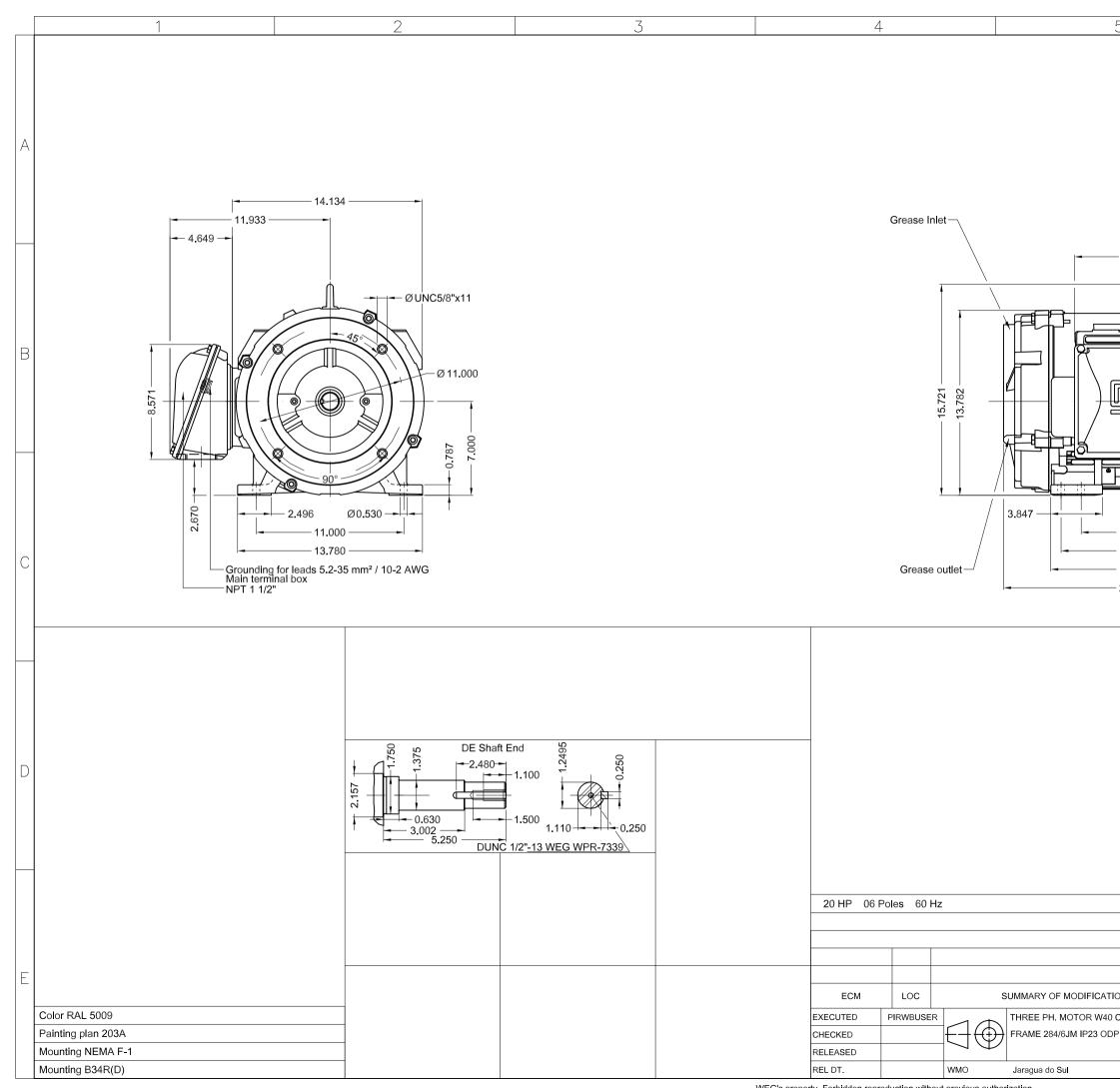












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