DATA SHEET

Three Phase Induction Motor - Squirrel Cage

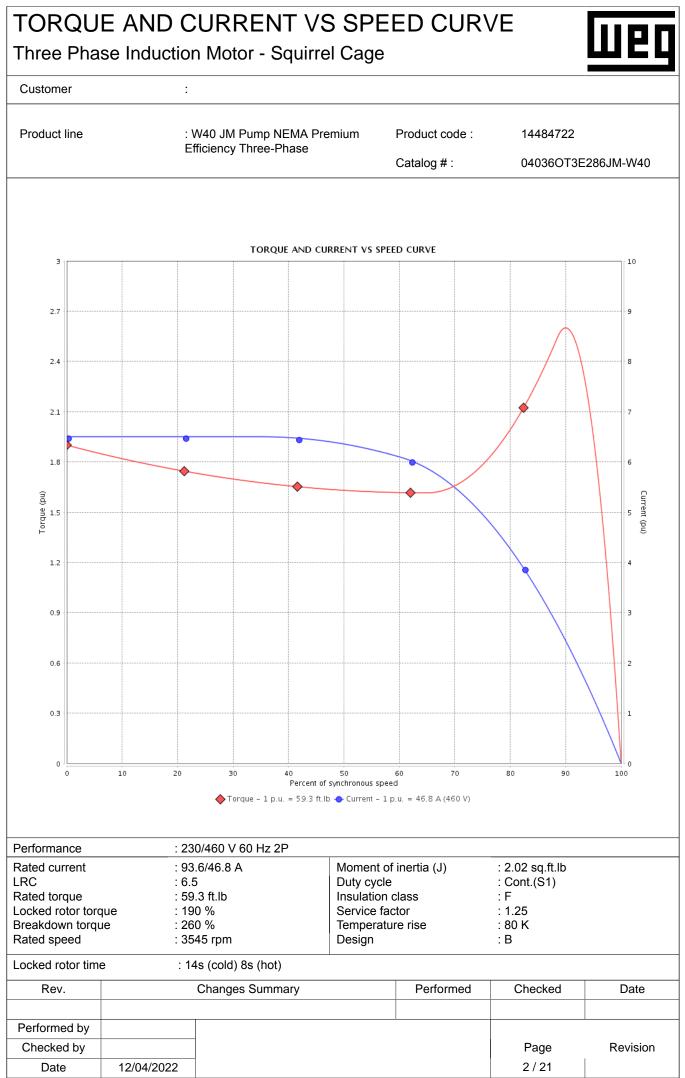
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Customer

		: W40 JM Pump NEM Efficiency Three-Phas		um Produ	ct code :	144847	22
		Elliciency Three-Phas	se	Catalo	og # :	04036C	DT3E286JM-W40
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 284/6JM : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B		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 : 367 lb : 2.02 sq.ft.lb	
Dutput [HP]		40		30	30		30
Poles		2		2	2		2
Frequency [Hz]		60		50	50		50
Rated voltage [V]		230/460		380	400		415
Rated current [A]		93.6/46.8	1	41.9	40.7		40.2
R. Amperes [A]		608/304		302	309		310
.RC [A]		6.5x(Code G)	7.2	2x(Code H)	7.6x(Co		7.7x(Code J)
No load current [A	1	29.8/14.9		14.3	15.8		17.0
Rated speed [RPN		3545		2950	2960		2960
Slip [%]	-	1.53	1	1.67	1.33		1.33
Rated torque [ft.lb]	59.3	1	53.4	53.2		53.2
ocked rotor torqu		190	1	210	229		250
Breakdown torque		260		280	300		330
Service factor		1.25		1.00	1.00)	1.00
Cemperature rise		80 K		80 K	80 K	(80 K
ocked rotor time		14s (cold) 8s (hot)	250s (c	cold) 139s (hot)	14s (cold) 8	8s (hot)	14s (cold) 8s (hot)
Noise level ²		73.0 dB(A)		· _ · _ ·			
	25%	91.5		88.6	88.7	·	88.9
Efficiency $(9/)$	50%	91.7	90.0		90.1		90.2
Efficiency (%)	75%	92.4	91.4		91.4	<u>ا</u>	91.5
	100%	92.4	92.8		92.8	3	92.8
	25%	0.51		0.49	0.45	5	0.41
Davida Falatan	50%	0.76		0.73	0.70)	0.65
Power Factor	75%	0.84		0.82	0.79)	0.76
	100%	0.87		0.86	0.84		0.82
Bearing type Sealing Lubrication inter		: 6311 Z C3 621 : Without W Bearing Seal Bear : 20000 h 20	r <u>ive end</u> 1 Z C3 ithout ing Seal 000 h 11 g	Foundation loa Max. traction Max. compress			
Lubricant amour Lubricant type	IL	: Mobil Polyrex I					
		: Mobil Polyrex I					
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1	2 104A SF 1.1 aces and car ed. notor from the 1m and with t weight subject ocess.	: Mobil Polyrex F	ΞM				ts with sinusoidal stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	2 104A SF 1.1 aces and car ed. notor from the 1m and with t weight subject ocess.	: Mobil Polyrex F 15 SFA 119A ncel the previous one, w e shaft end. olerance of +3dB(A).	∃M	power supply, a MG-1.			stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	2 104A SF 1.1 aces and car ed. notor from the 1m and with t weight subject ocess.	: Mobil Polyrex F 15 SFA 119A ncel the previous one, w e shaft end. olerance of +3dB(A).	∃M	power supply, a MG-1.	subject to the	tolerances	stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of ful Rev.	2 104A SF 1.1 aces and car ed. notor from the 1m and with t weight subject ocess.	: Mobil Polyrex F 15 SFA 119A ncel the previous one, w e shaft end. olerance of +3dB(A).	∃M	power supply, a MG-1.	subject to the	tolerances	stipulated in NEMA

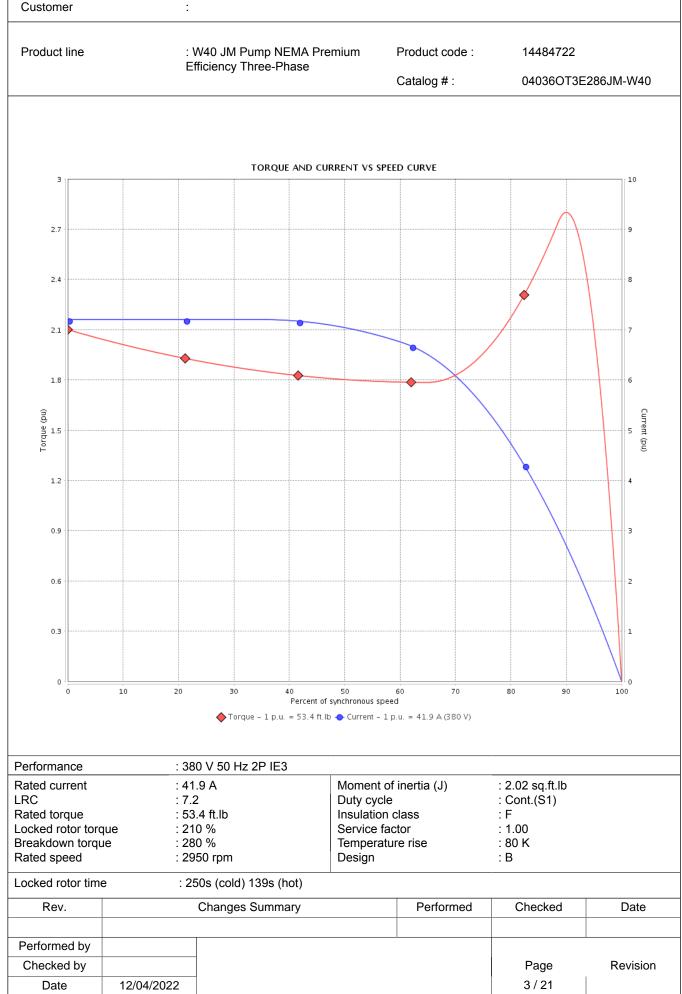
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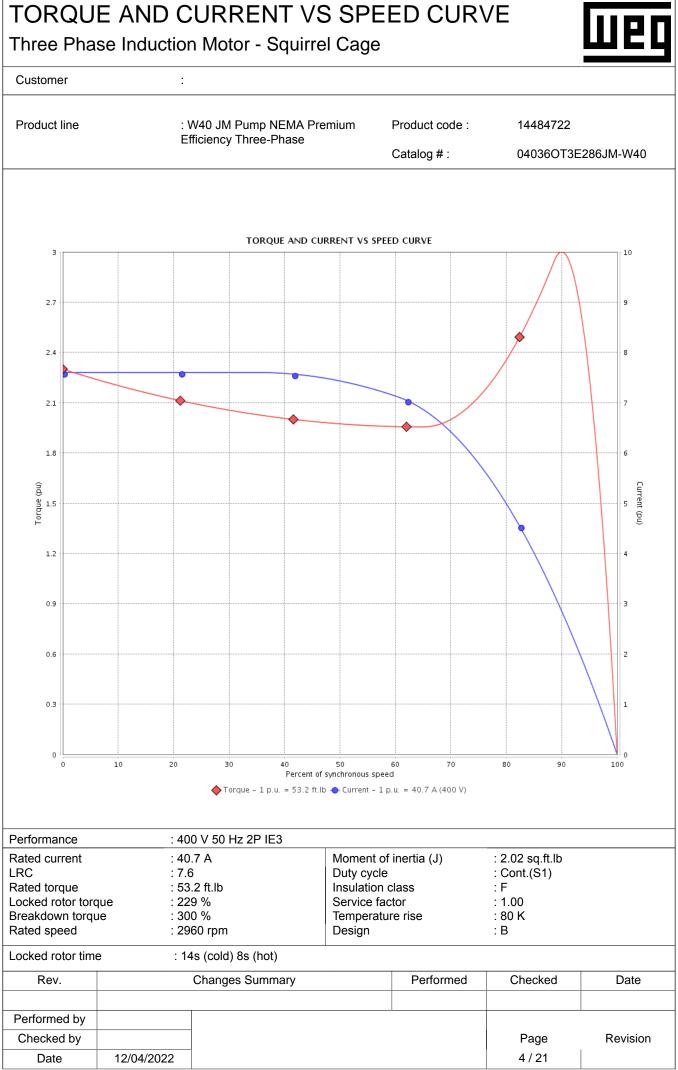
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



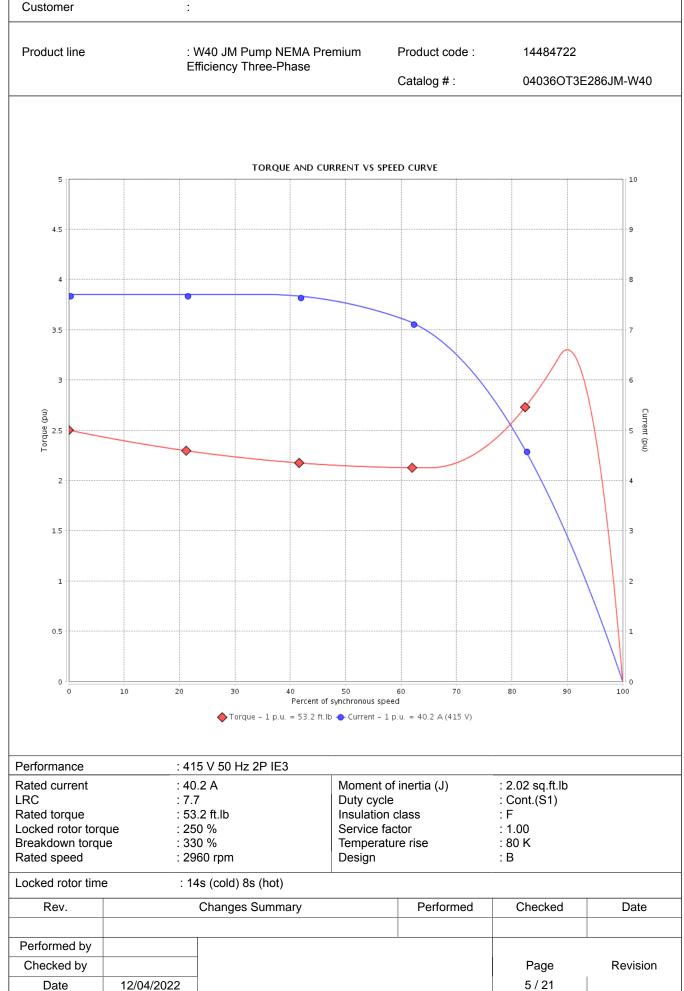
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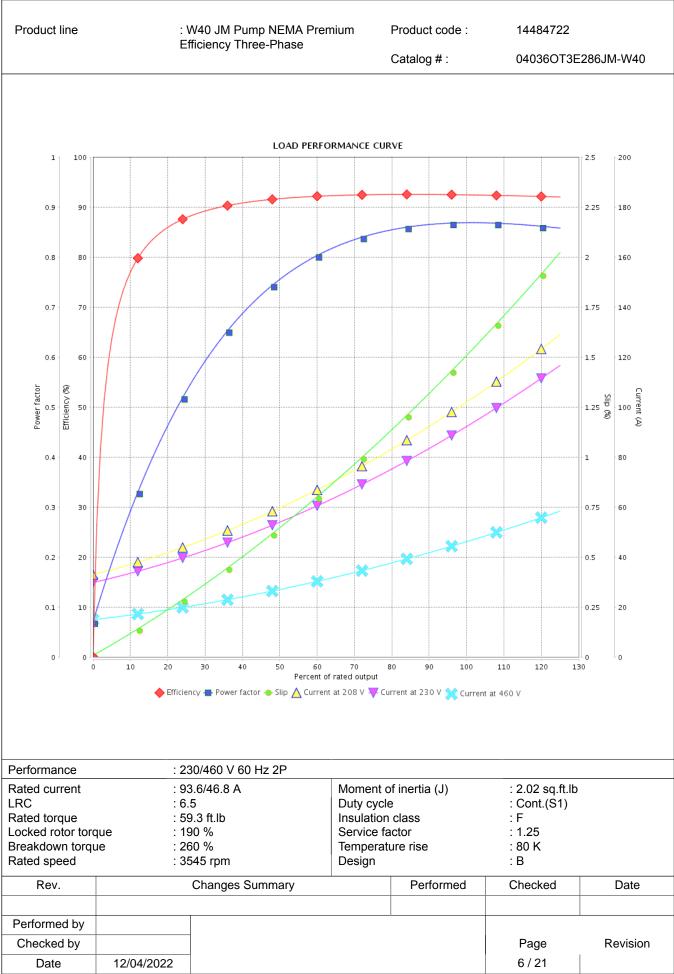
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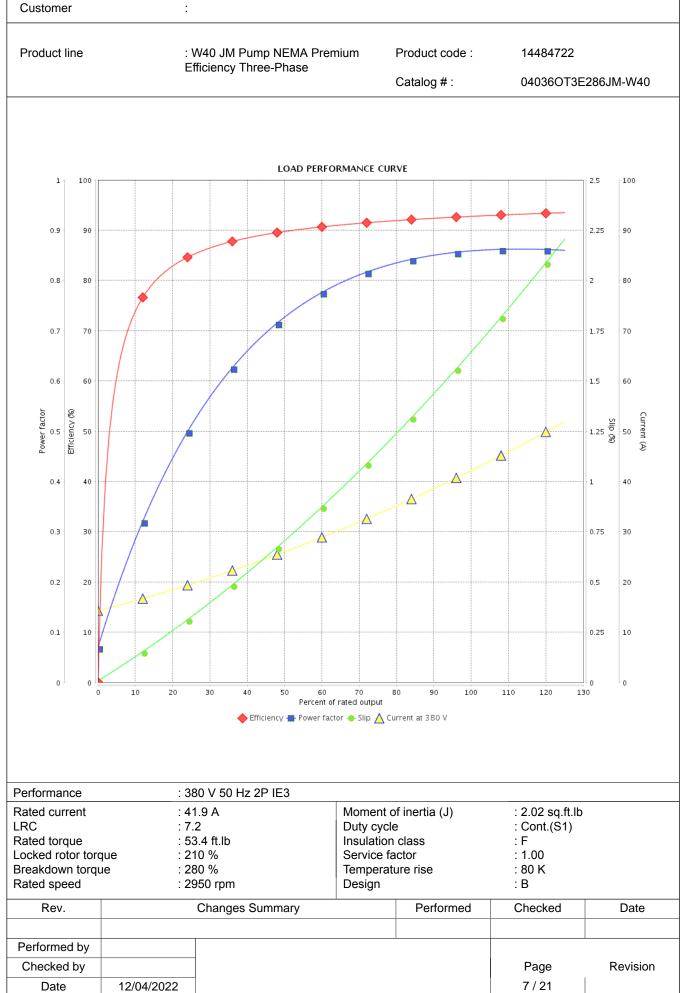


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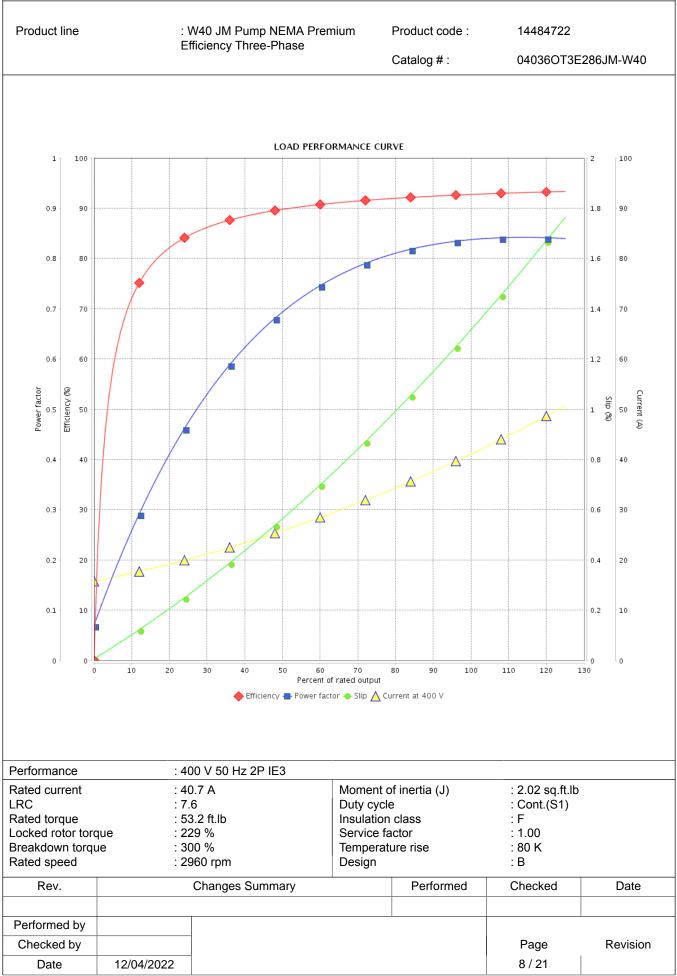
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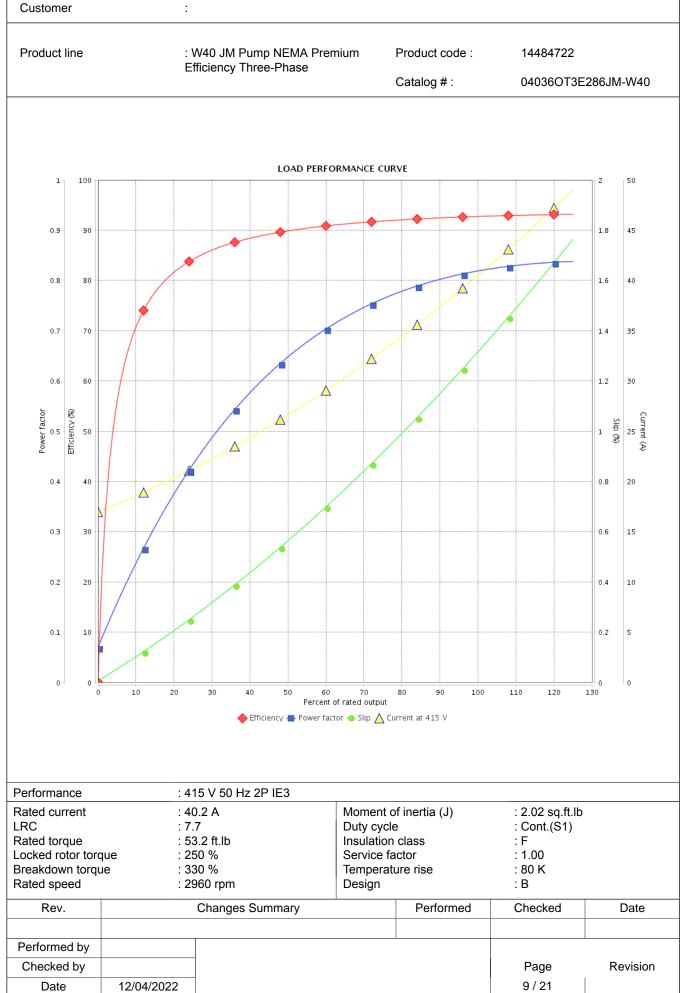


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THERMAL LIMIT CURVE

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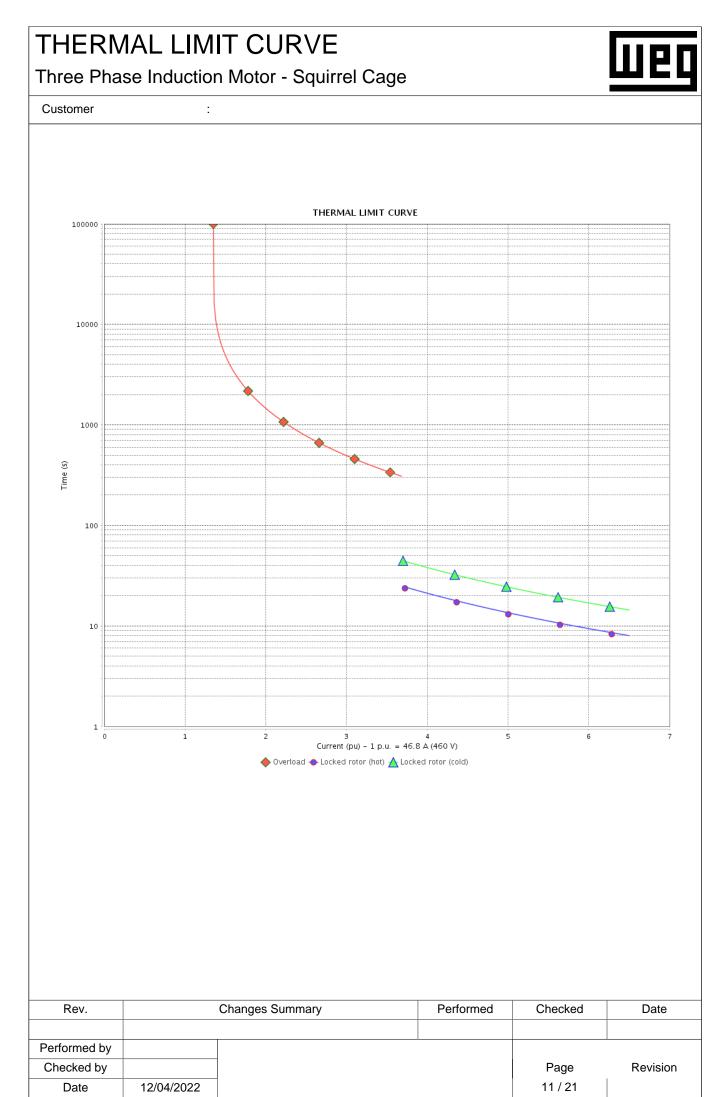


Customer

Product line	:	: W40 JM Pump NEMA Premium		Product code :	14484722	
		Efficiency Three-Phase		Catalog # :	04036OT3E2	286JM-W40
Performance	:2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 9 : 6 : 5 jue : 1 ie : 2	3.6/46.8 A	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.02 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant			-			
Cooling constant	:					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				10/21	

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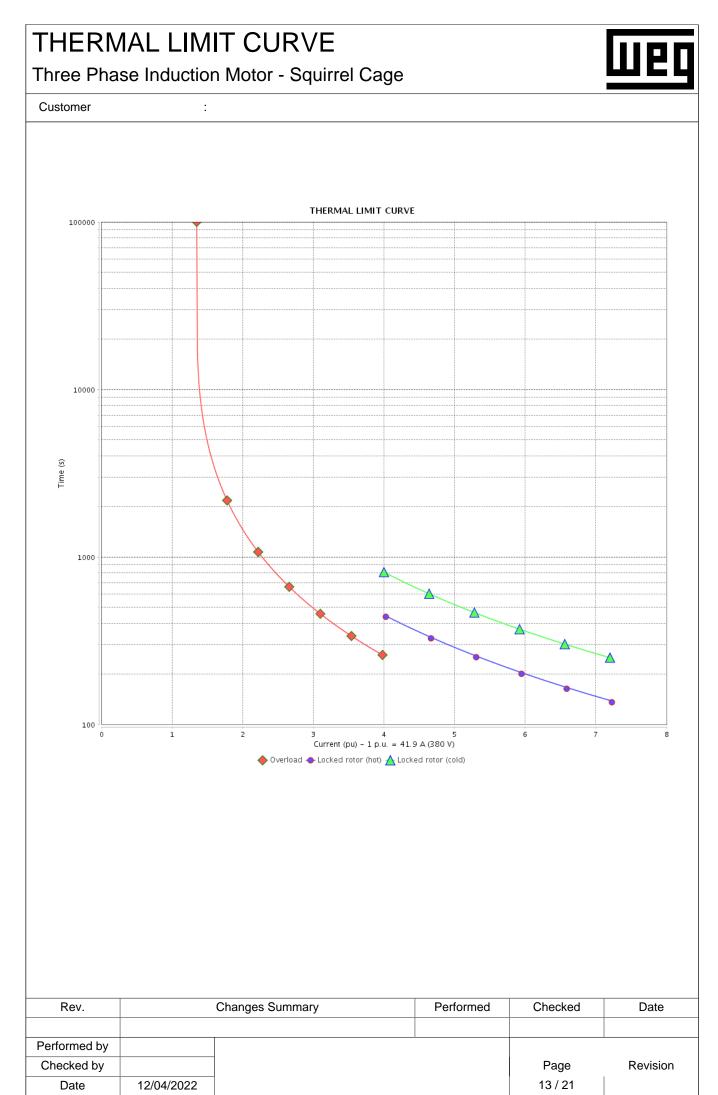
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Customer

Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		Product code : Catalog # :	14484722 04036OT3E28	14484722 04036OT3E286JM-W40	
Performance		80 V 50 Hz 2P IE3					
Rated current LRC	: 4 : 7	1.9 A 2	Moment o Duty cycle	f inertia (J)	: 2.02 sq.ft.lb : Cont.(S1)		
Rated torque	: 5	3.4 ft.lb	Insulation	class	: F		
Locked rotor torq Breakdown torqu		10 % 80 %	Service factor Temperature rise		: 1.00 : 80 K		
Rated speed		950 rpm	Design		: B		
Heating constant							
Cooling constant							
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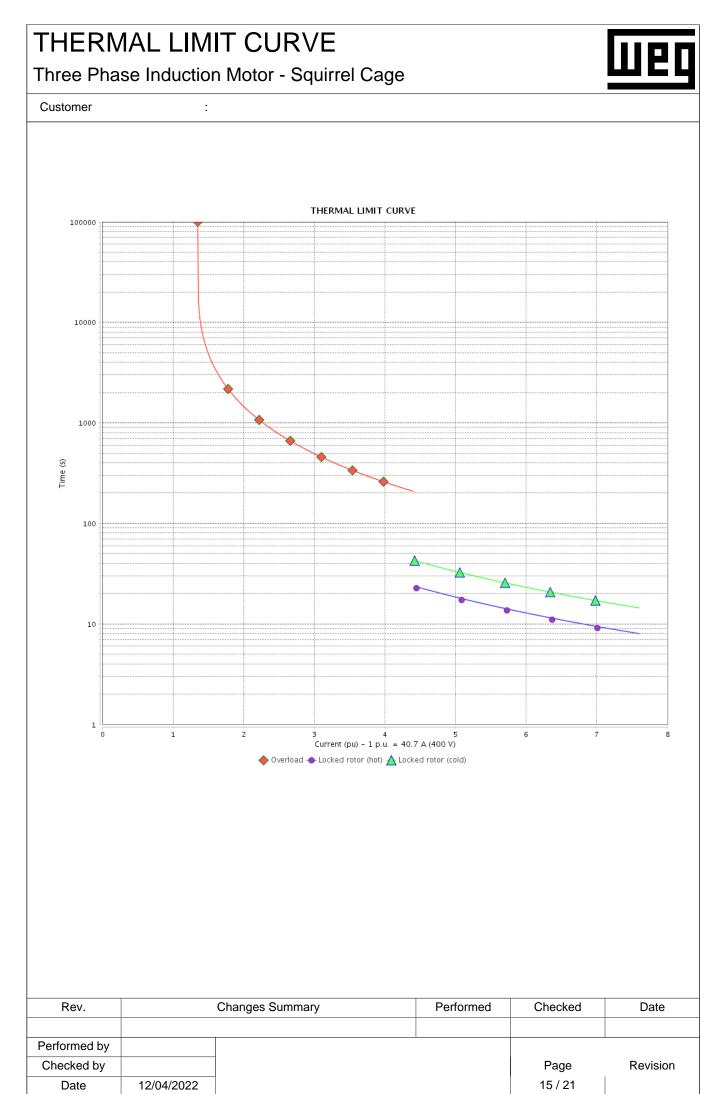
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Customer

Product line	: \	: W40 JM Pump NEMA Prem		Product code :	14484722	
		fficiency Three-Phase	Catalog # :		04036OT3E286JM-W40	
Performance	: 40	00 V 50 Hz 2P IE3				
Rated current		0.7 A	Moment o	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7.	6	Duty cycle	:	: Cont.(S1)	
Rated torque		3.2 ft.lb	Insulation class		: F	
Locked rotor toro Breakdown torqu		29 % 00 %	Service factor Temperature rise		: 1.00 : 80 K	
Rated speed		960 rpm	Design	ile lise	: B	
			~			
Heating constan						
Cooling constan Rev.		Changes Summary		Performed	Checked	Date
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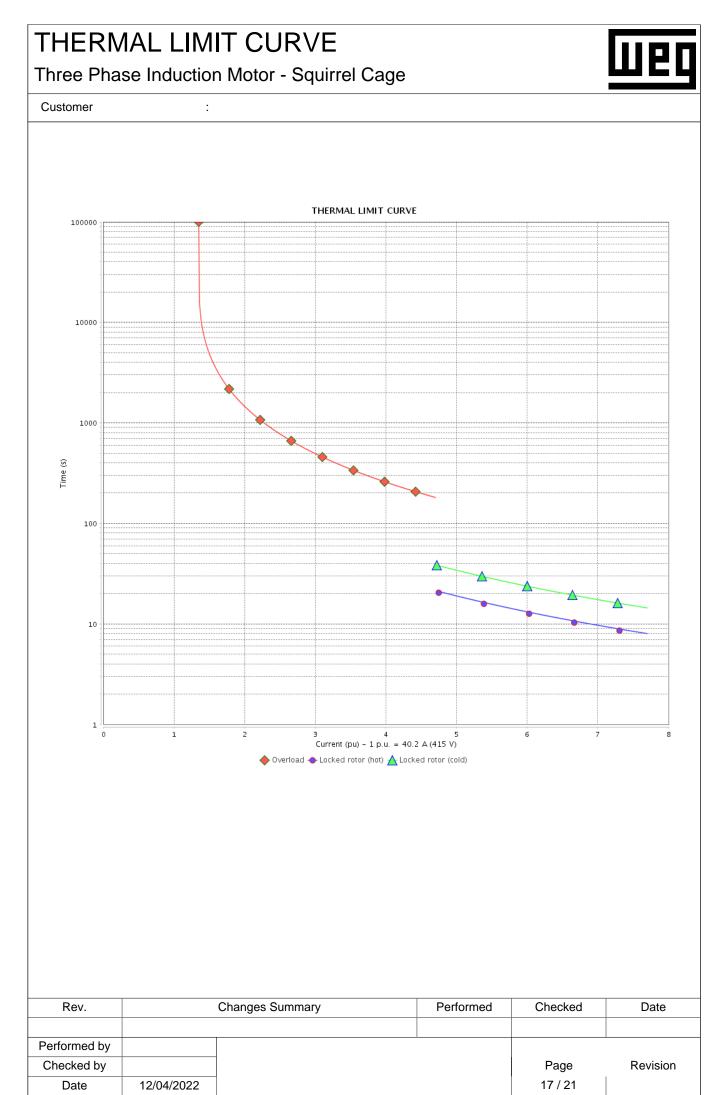
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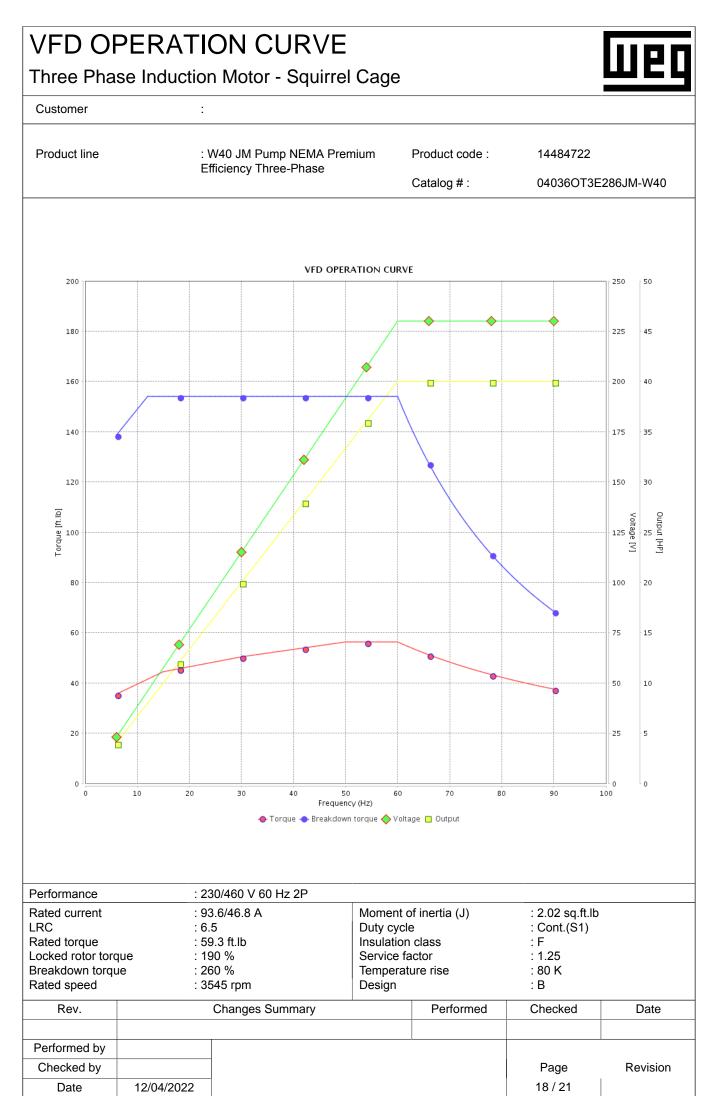


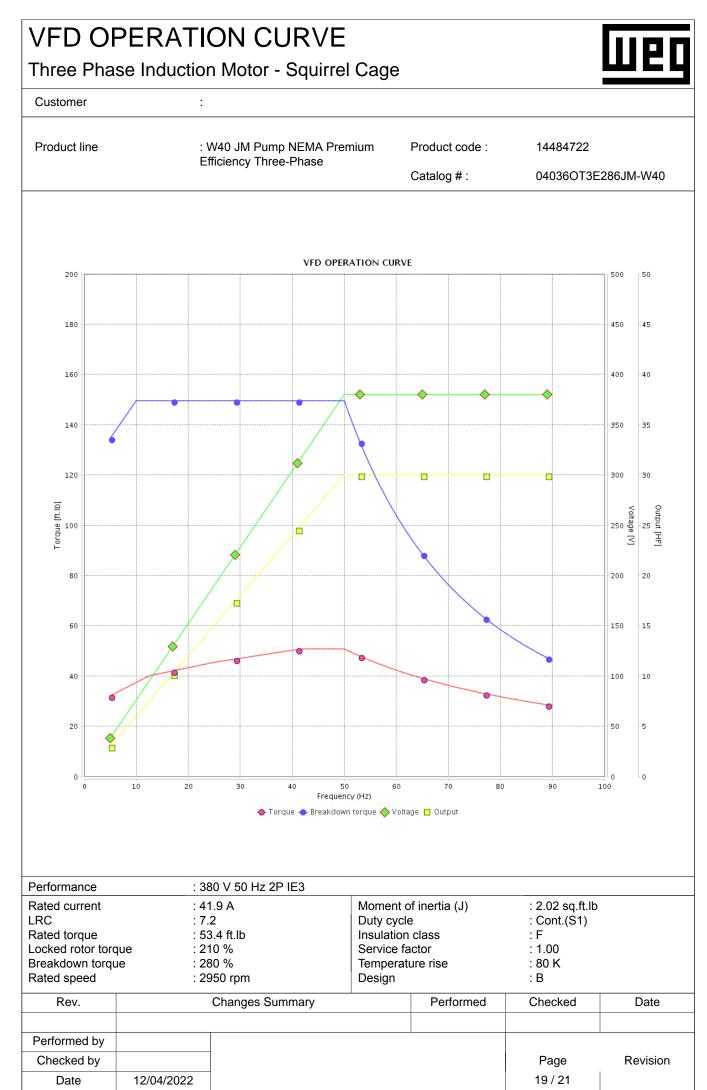
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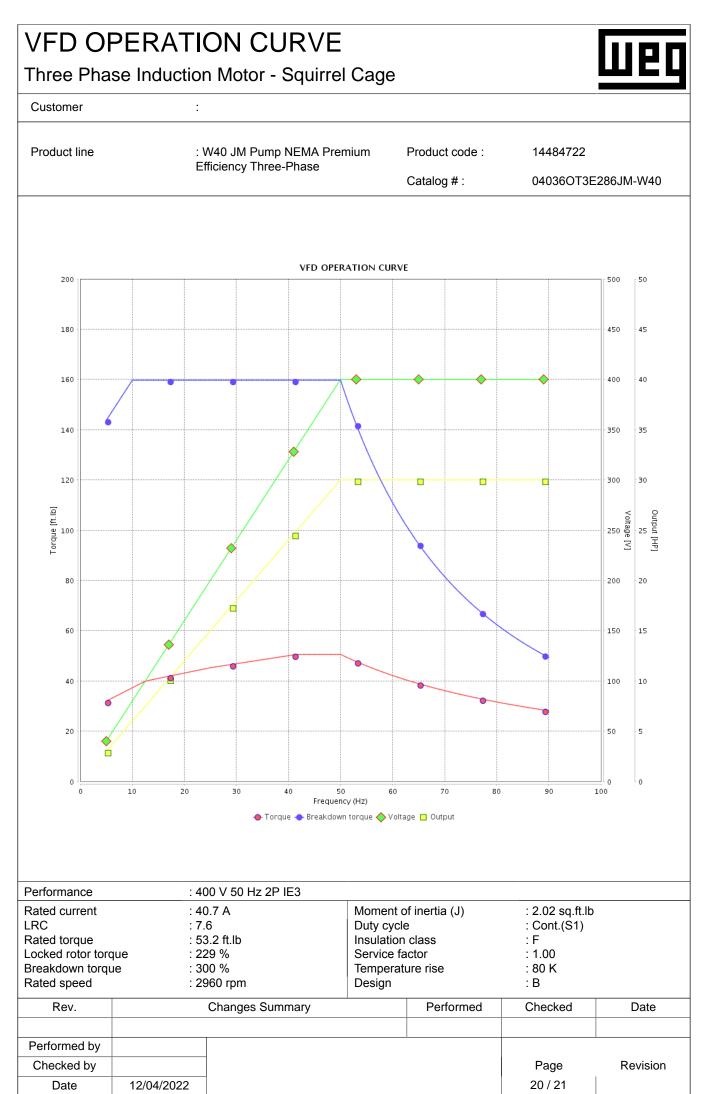
Product line		: W40 JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14484722	
		,		Catalog # :	04036OT3E28	36JM-W40
					· · · · · · · · · · · · · · · · · · ·	
Performance Rated current		15 V 50 Hz 2P IE3 .0.2 A	Momente	f inertia (J)	: 2.02 sq.ft.lb	
LRC	: 7		Duty cycle		: Cont.(S1)	
Rated torque		3.2 ft.lb	Insulation	class	: F	
Locked rotor toro		50 %	Service fa		: 1.00	
Breakdown torqu Rated speed		30 %Temperature i960 rpmDesign		ure rise	: 80 K : B	
Heating constan	t					
Cooling constant						
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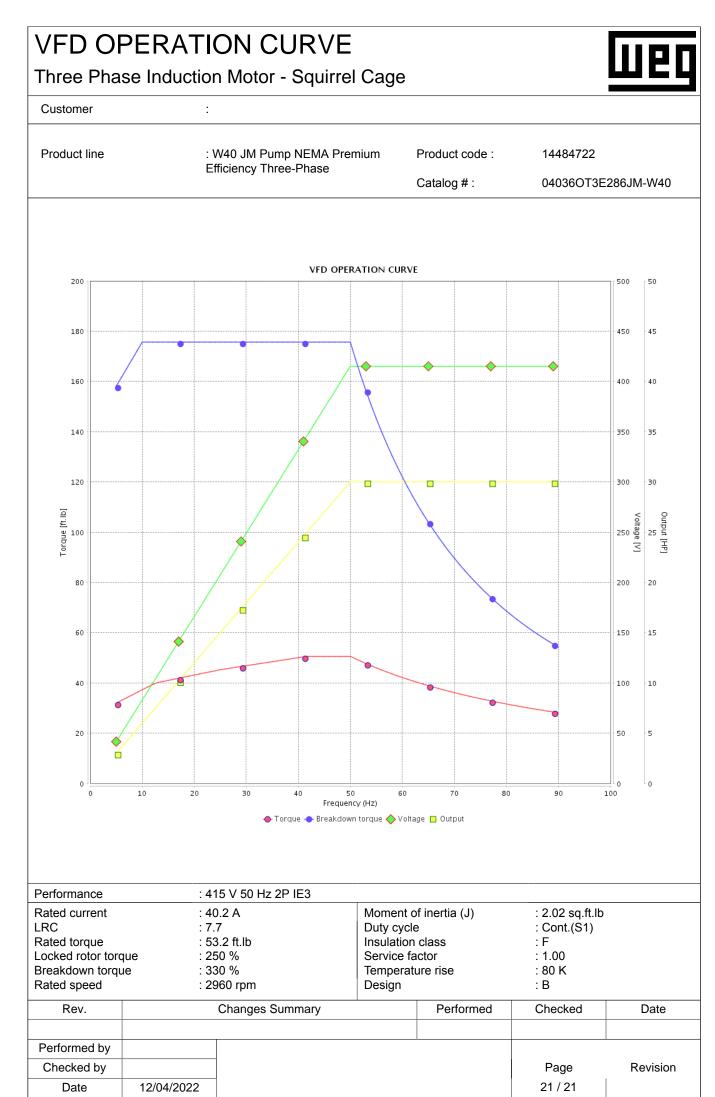
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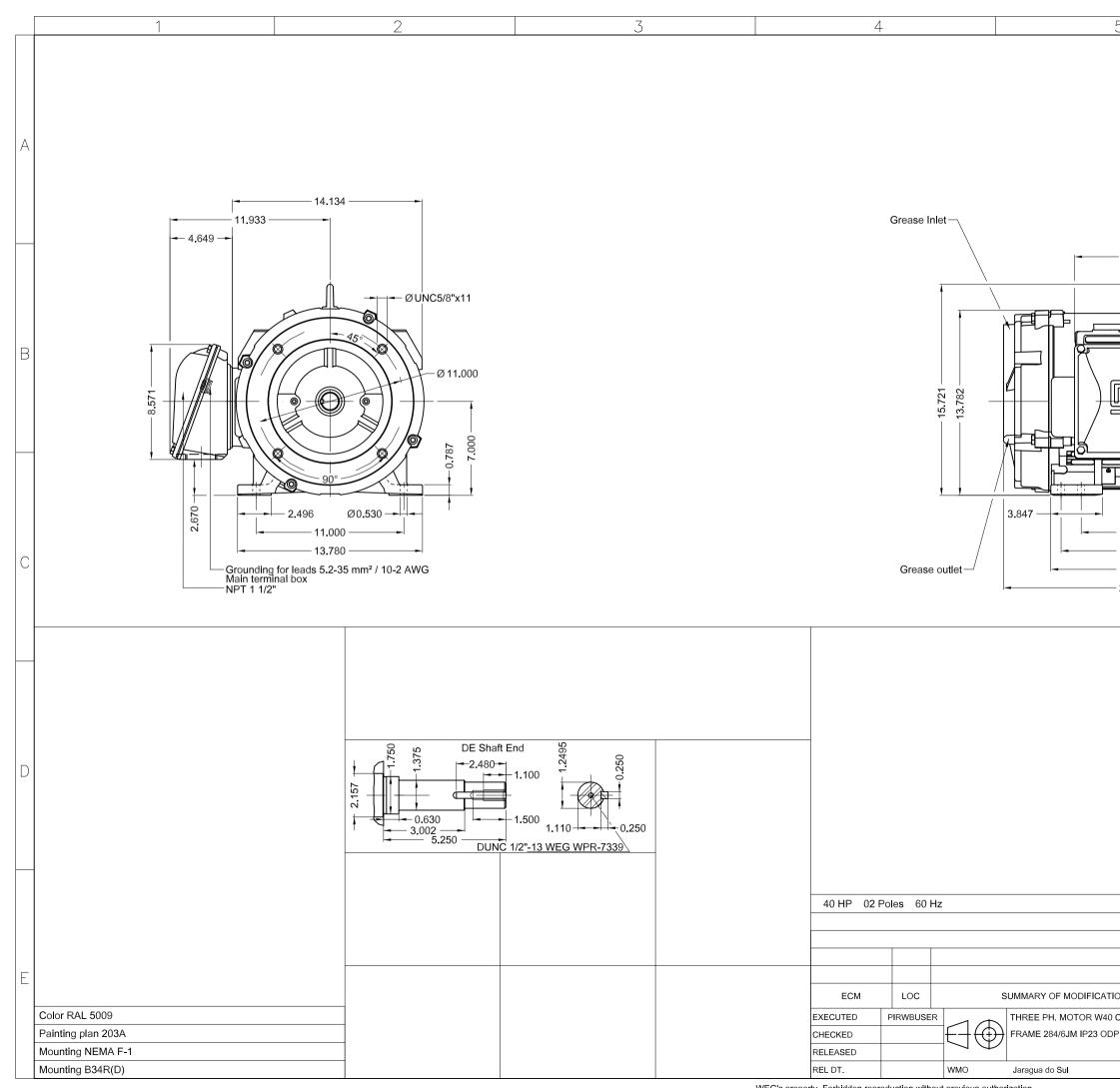












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