# DATA SHEET

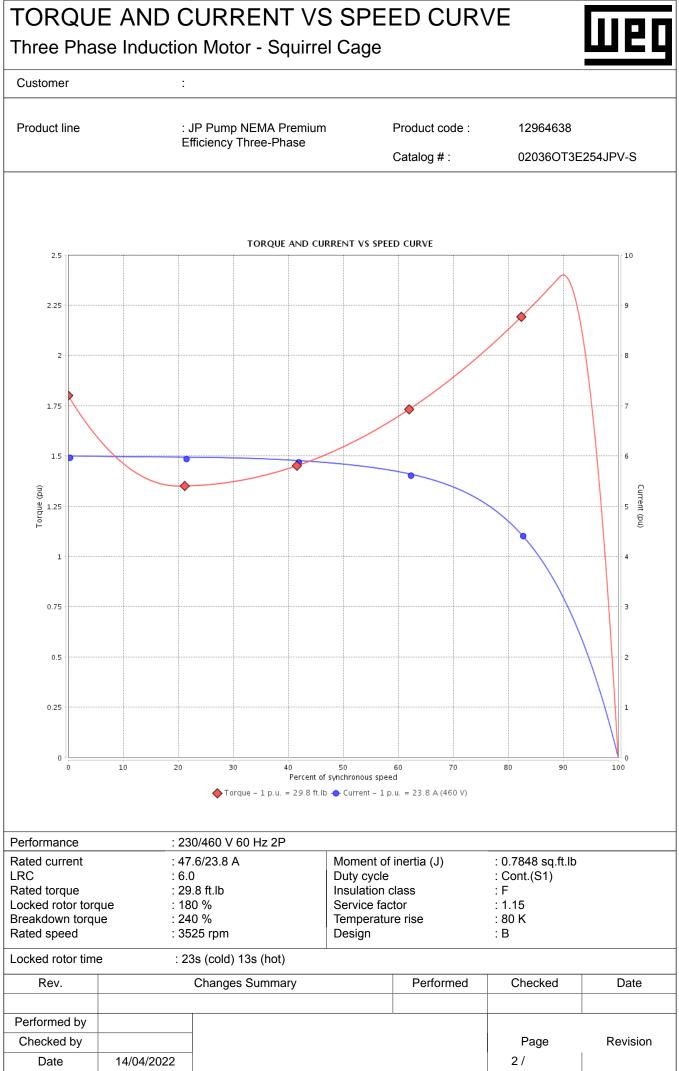
Three Phase Induction Motor - Squirrel Cage

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#### Customer

Frame Insulation class Duty cycle		Efficiency Three-Phase	Catalog #	<i>t</i> :	02036OT3E	254 IPV-S	
Insulation class			Catalog # : 02036OT3E		20401 0-0		
Insulation class		: 254/6JP	Cooling method		: IC01 - ODF	5	
		: F	Mounting				
		: Cont.(S1)	Rotation <sup>1</sup>		: Both (CW and CCW)		
Ambient tempera	atura	: -20°C to +40°C	Starting method		: Direct On Line		
Altitude	ature	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>		: 178 lb		
				(1)		<b>6</b> 4 11-	
Design		: B	Moment of inertia	a (J)	: 0.7848 sq.	IT.ID	
Dutput [HP]		20	20			20	
Poles		2	2			2	
Frequency [Hz]		60	50			50	
Rated voltage [V]		230/460	190/380	<b>n</b>	22	20/415	
Rated current [A]		47.6/23.8	58.0/29.			.7/27.4	
		286/143					
R. Amperes [A]			261/131		264/140		
.RC [A]	-	6.0x(Code G)	4.5x(Code D)		5.1x(Code E)		
lo load current [A		17.0/8.50		16.2/8.09		17.1/9.04	
Rated speed [RPN	<u></u>	3525	2895		2905		
Slip [%]		2.08	3.50			3.17	
Rated torque [ft.lb]	]	29.8	36.3			36.2	
ocked rotor torqu		180		130		140	
Breakdown torque		240	190		210		
Service factor	. [ / ]	1.15	1.00		1.00		
		80 K	1.00 105 K			80 K	
Temperature rise							
ocked rotor time		23s (cold) 13s (hot)	Os (cold) Os			d) 0s (hot)	
Noise level <sup>2</sup>		70.0 dB(A)	68.0 dB(A)			0 dB(A)	
	25%	90.0	92.6		91.6		
Efficiency (9/)	50%	90.2	90.6		90.6		
Enciency (%)	75%	91.0	89.5		90.0		
Efficiency (%)	100%	91.0	87.2		88.7		
	25%		91.0         87.2           0.49         0.56           0.76         0.82		0.51		
	50%				0.78		
Power Factor	75%	0.83	0.88		0.86		
	100%	0.87	0.90 0.89				
		Drive end Non drive end	Foundation loads				
Bearing type		: 6309 Z C3 6208 Z C3	Max. traction		: 275 lb : 453 lb		
Sealing		: Without Without	Max. compression	า			
0		Bearing Seal Bearing Seal					
Lubrication interv	val	: 15797 h 20000 h					
Lubricant amoun		: 13 g 8 g					
Lubricant type		: Mobil Polyrex EM					
			1				
Notes USABLE @208V	52.6A SF 1.0	00 SFA 52.6A					
must be eliminate (1) Looking the m	ed. notor from the		These are average power supply, sub MG-1.				
	weight subjec ocess.	olerance of +3dB(A). t to changes after					
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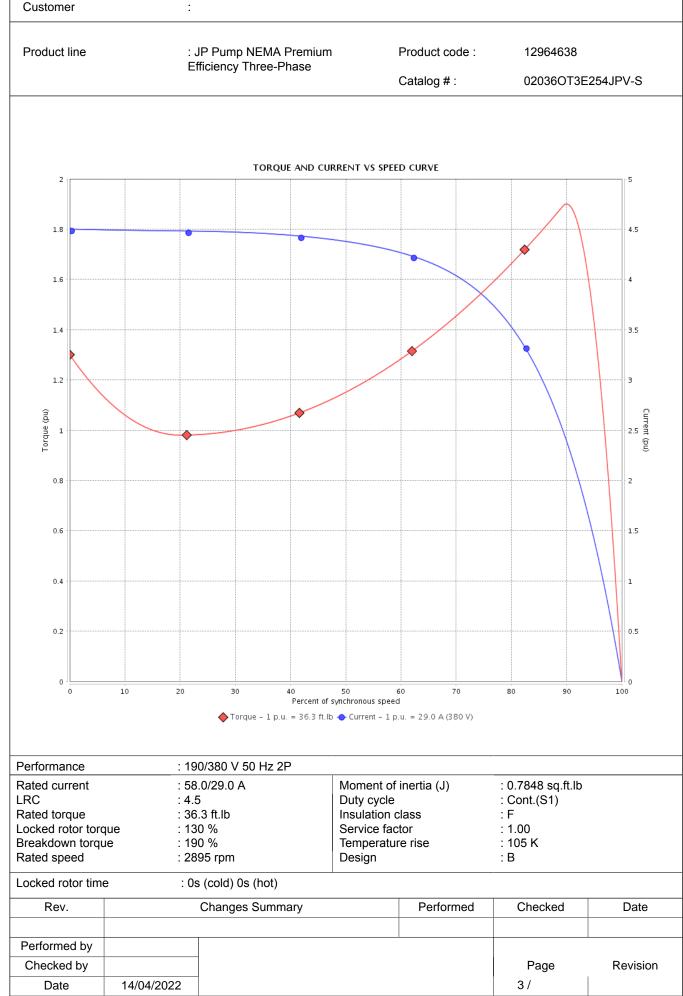


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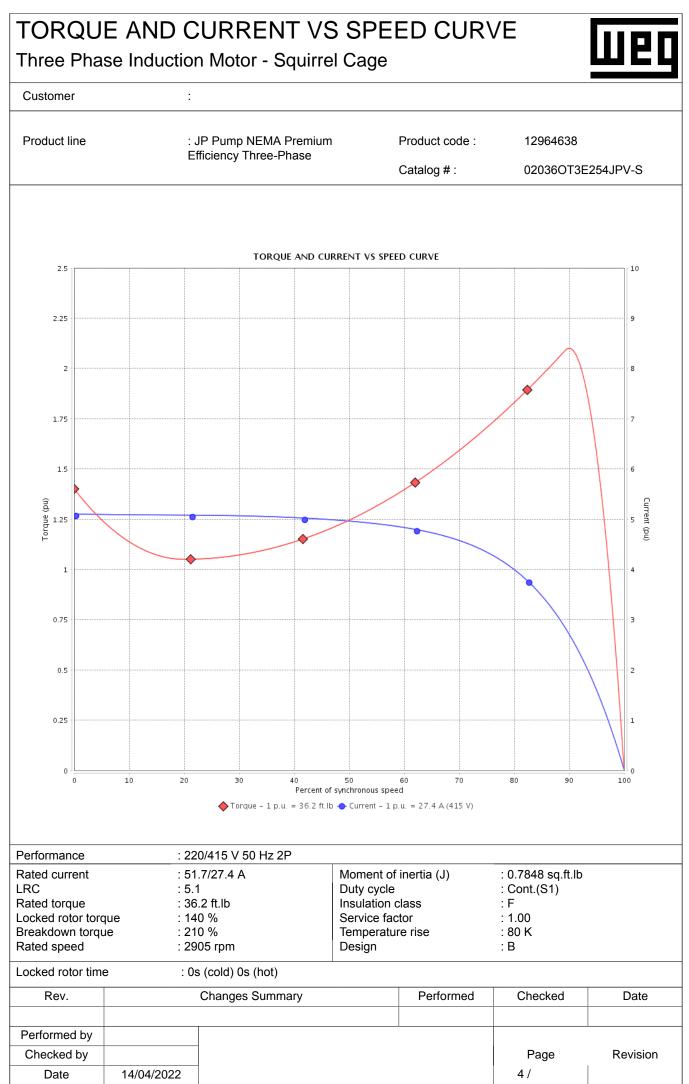
## TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



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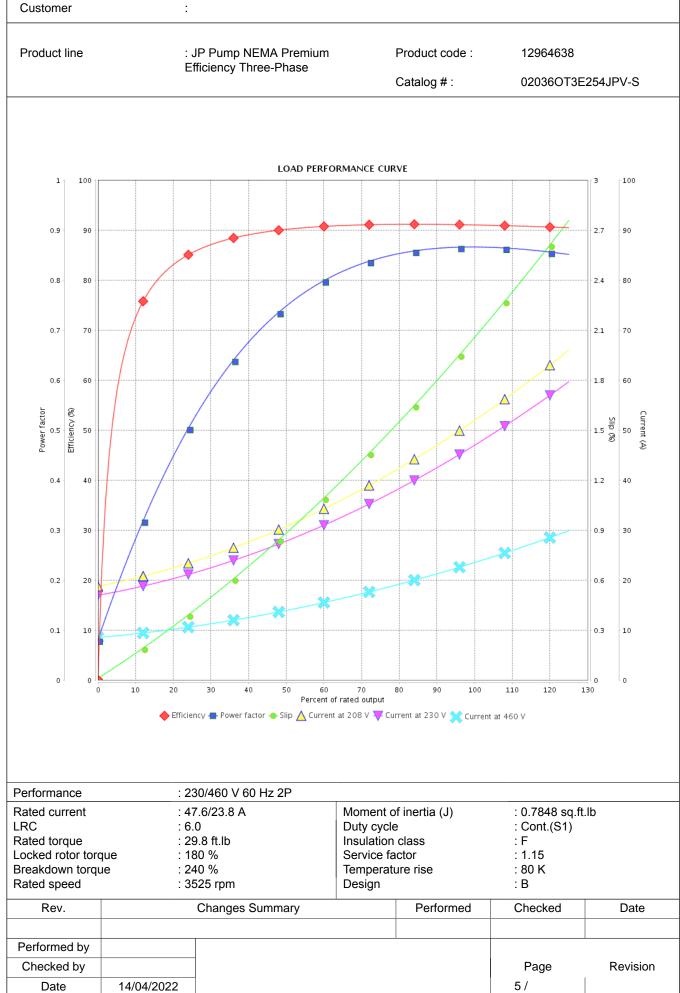


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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



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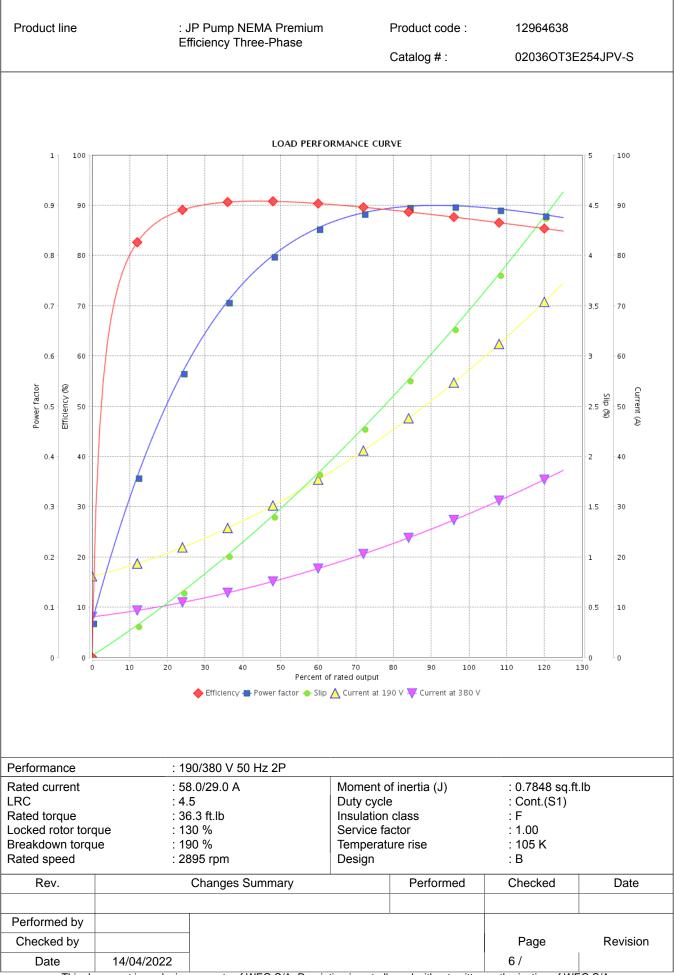
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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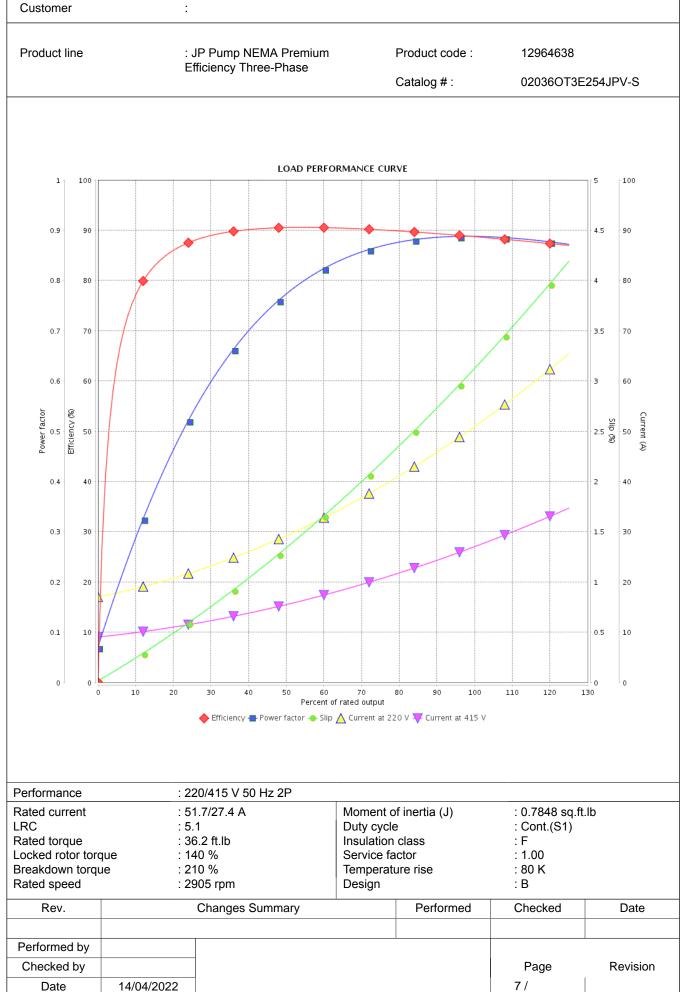
Customer



# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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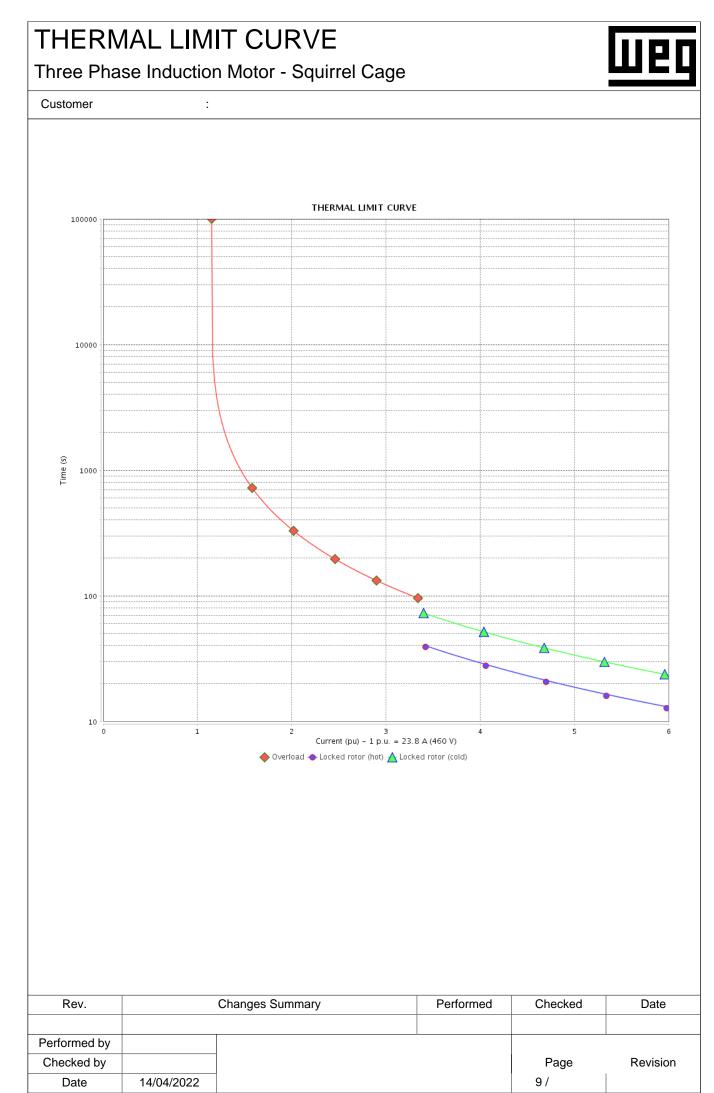


Customer

Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12964638	
				Catalog # :	02036OT3E	02036OT3E254JPV-S
Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC	ed current : 47.6/23.8 A		Moment of inertia (J) Duty cycle		: 0.7848 sq.ft.lb : Cont.(S1)	
Rated torque		9.8 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		30 % 40 %	Service fa Temperate		: 1.15 : 80 K	
Rated speed		525 rpm	Design	ure rise	: B	
Heating constant			Sooign			
Cooling constant						
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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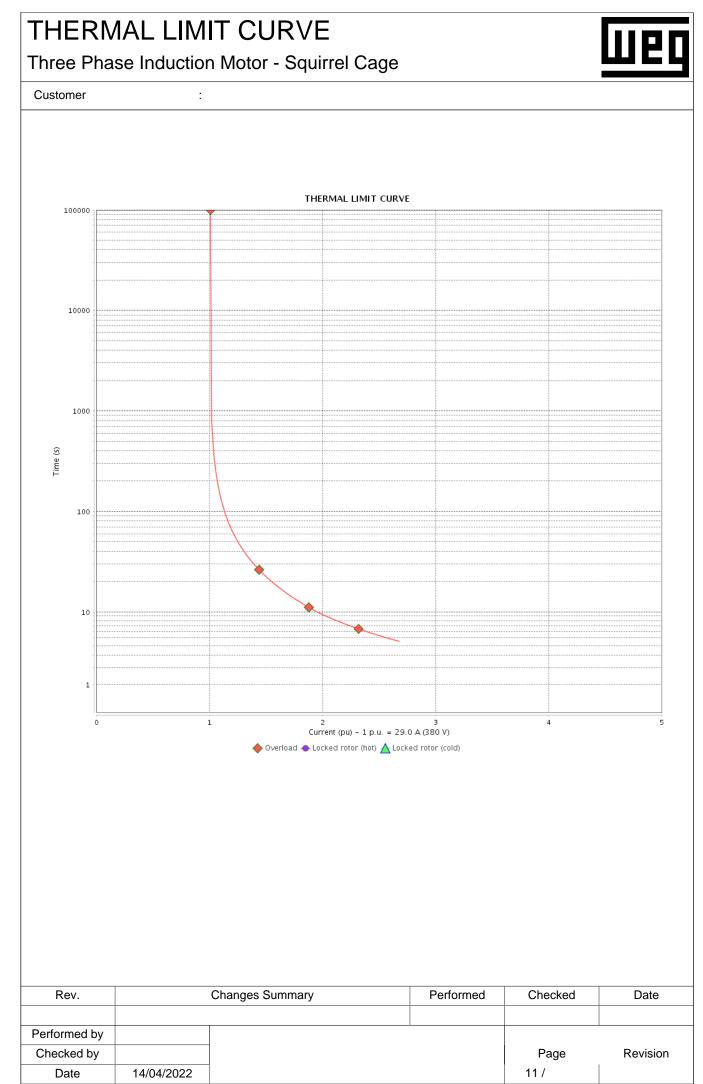


Customer

Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12964638	
				Catalog # :	02036OT3E	254JPV-S
Performance	: 19	90/380 V 50 Hz 2P				
Rated current LRC	: 58 : 4.	3.0/29.0 A 5	Moment of inertia (J) Duty cycle		: 0.7848 sq.ft.lb : Cont.(S1)	
Rated torque		5.3 ft.lb	Insulation	class	: F	
Locked rotor toro		30 %	Service fa		: 1.00	
Breakdown torqu Rated speed		90 % 395 rpm	Temperat Design	urense	: 105 K : B	
Heating constant			2001911			
Cooling constant						
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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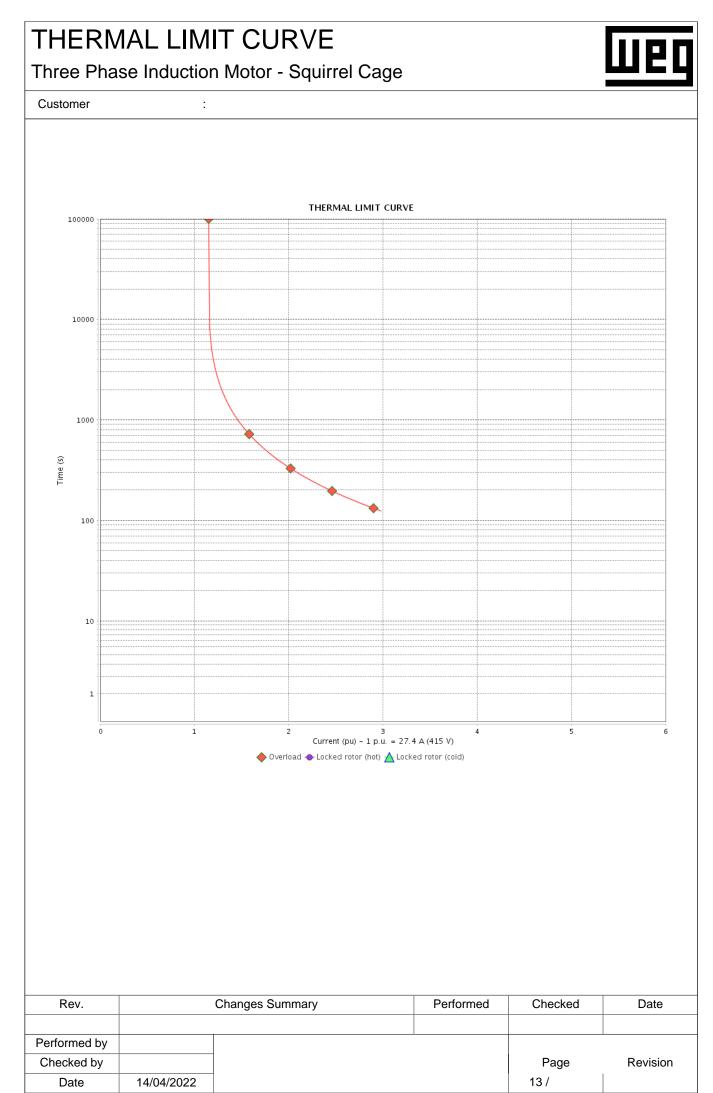


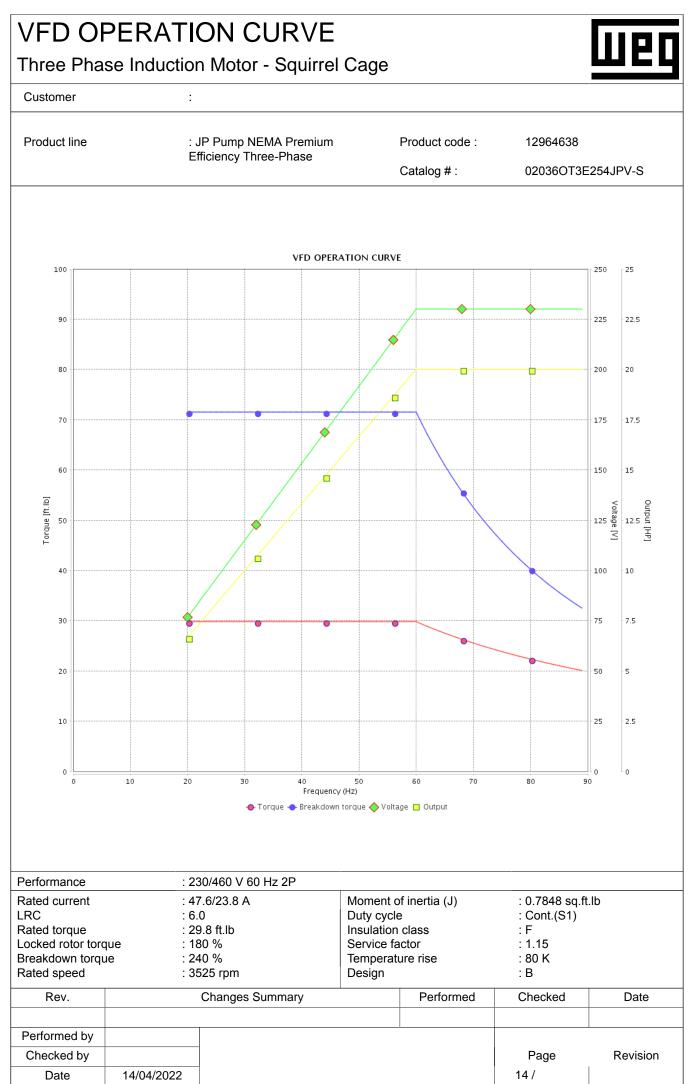
Customer

Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12964638	
				Catalog # :	02036OT3E	254JPV-S
Performance	: 22	20/415 V 50 Hz 2P				
Rated current LRC	: 5´ : 5.	1.7/27.4 A 1	Moment of inertia (J) Duty cycle		: 0.7848 sq.ft.lb : Cont.(S1)	
Rated torque		6.2 ft.lb	Insulation	class	: F	
Locked rotor toro Breakdown torqu		40 % 10 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		905 rpm	Design		: B	
Heating constant						
Cooling constant						
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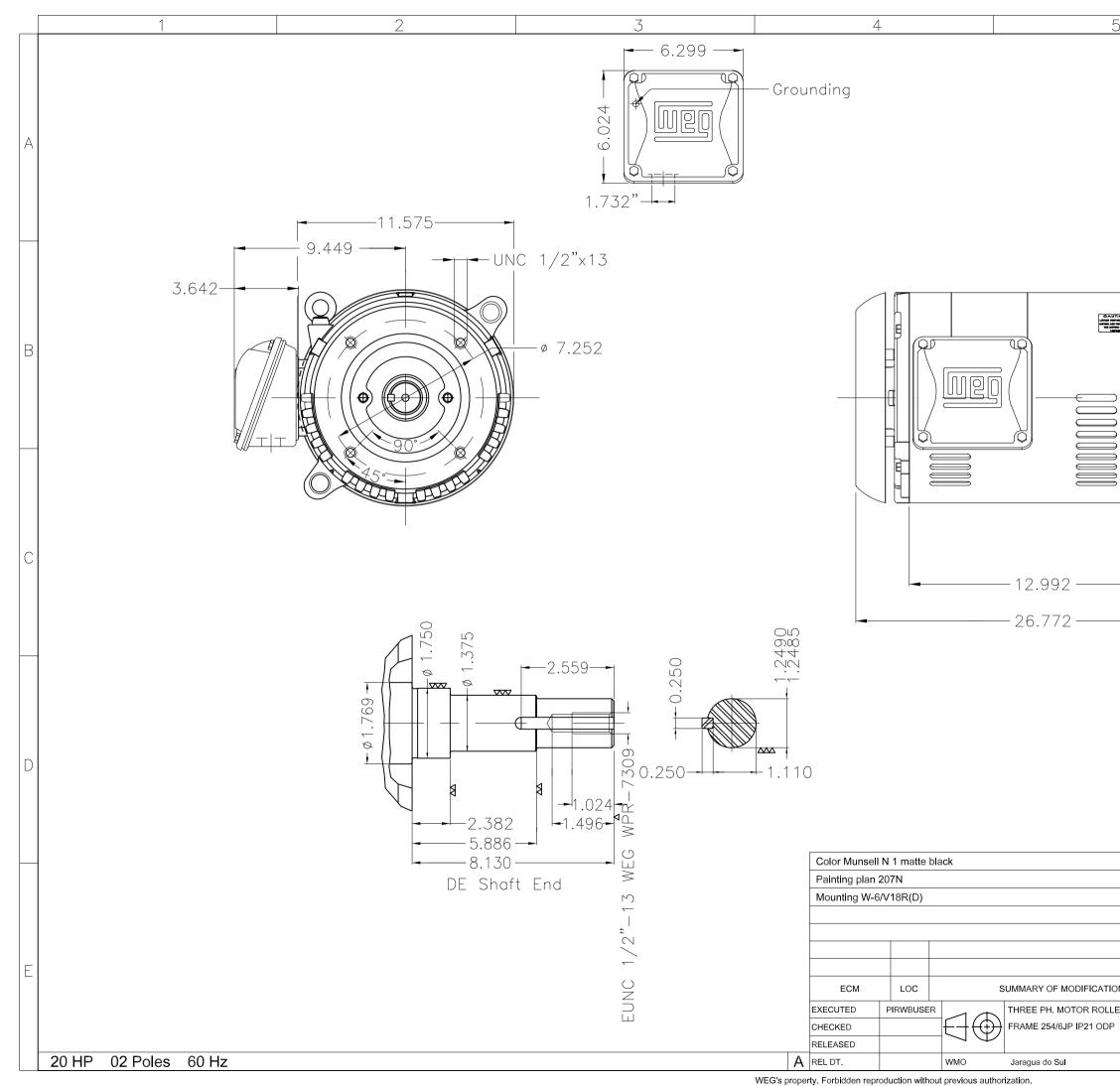
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