# DATA SHEET

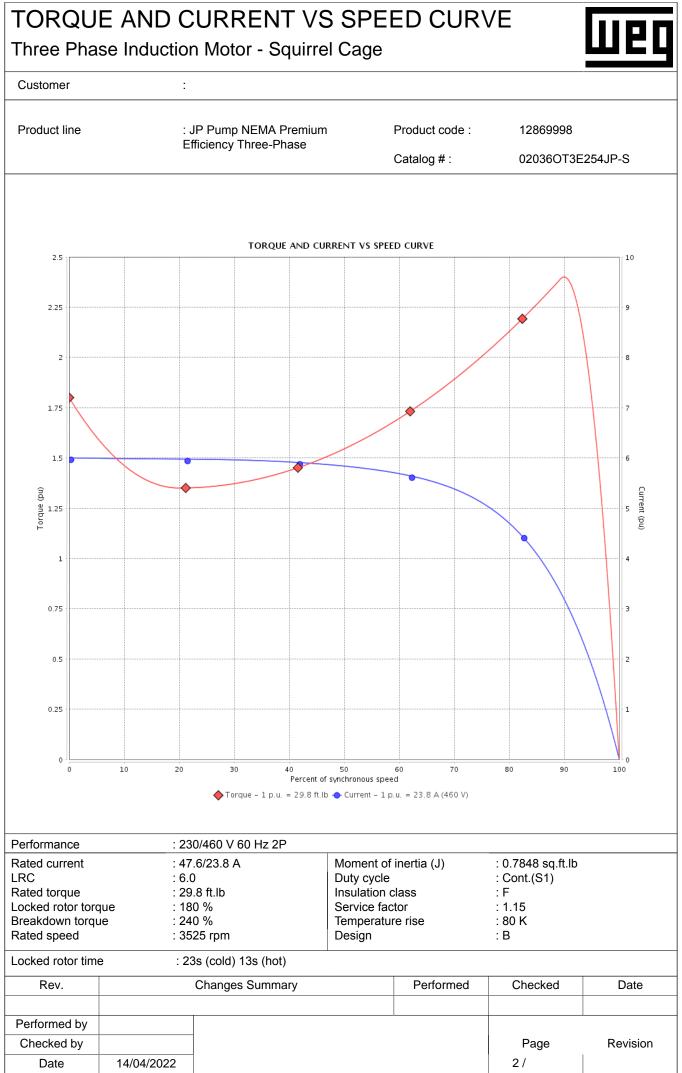
Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12869998		
			Catalog # :	02036OT3E254JP-S		
Frame		: 254/6JP	Cooling method	: 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 method	: Direct On Line		
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 181 lb			
Design		: B	Moment of inertia (J)	: 0.7848 sq.ft.lb		
Output [HP]		20	20	20		
Poles		20	20	20		
Frequency [Hz]		60	50	50		
Rated voltage [V]		230/460	190/380	220/415		
Rated current [A]		47.6/23.8	58.0/29.0	51.7/27.4		
L. R. Amperes [A]		286/143	261/131	264/140		
LRC [A] No load current [A	1	6.0x(Code G) 17.0/8.50	4.5x(Code D) 16.2/8.09	5.1x(Code E) 17.1/9.04		
•	-			2905		
Rated speed [RPN	vil	3525	2895			
Slip [%]	1	2.08	3.50	3.17		
Rated torque [ft.lb		29.8	36.3	36.2		
Locked rotor torqu		180	130	140		
Breakdown torque	;[%]	240	190	210		
Service factor		1.15	1.00	1.00		
Temperature rise		80 K	105 K	80 K		
Locked rotor time		23s (cold) 13s (hot)	0s (cold) 0s (hot)	Os (cold) Os (hot)		
Noise level <sup>2</sup>	050/	70.0 dB(A)	68.0 dB(A)	68.0 dB(A)		
	25%	90.0	92.6	91.6		
Efficiency (%)	50%	90.2	90.6	90.6		
J (**)	75%	91.0	89.5	90.0		
	100%	91.0	87.2	88.7		
	25%	0.49	0.56	0.51		
Power Factor	50%	0.76	0.82	0.78		
	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	: 274 lb : 454 lb		
Sealing		: Without Without	Max. compression			
		Bearing Seal Bearing Seal				
Lubrication interv		: 20000 h 20000 h				
Lubricant amoun	nt	: 13 g 8 g				
Lubricant type		: Mobil Polyrex EM				
Notes USABLE @208V	′ 52.6A SF 1.	00 SFA 52.6A				
must be eliminate (1) Looking the m	ed. Notor from the			based on tests with sinusoidal e tolerances stipulated in NEMA		
must be eliminate (1) Looking the m (2) Measured at 1	ed. notor from the 1m and with t weight subjec ocess.		power supply, subject to th			
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro-	ed. notor from the 1m and with t weight subjec ocess.	shaft end. olerance of +3dB(A).	power supply, subject to th			
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). It to changes after	power supply, subject to th MG-1.	e tolerances stipulated in NEMA		
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). It to changes after	power supply, subject to th MG-1.	e tolerances stipulated in NEMA Checked Date		
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. notor from the 1m and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). It to changes after	power supply, subject to th MG-1.	e tolerances stipulated in NEMA		

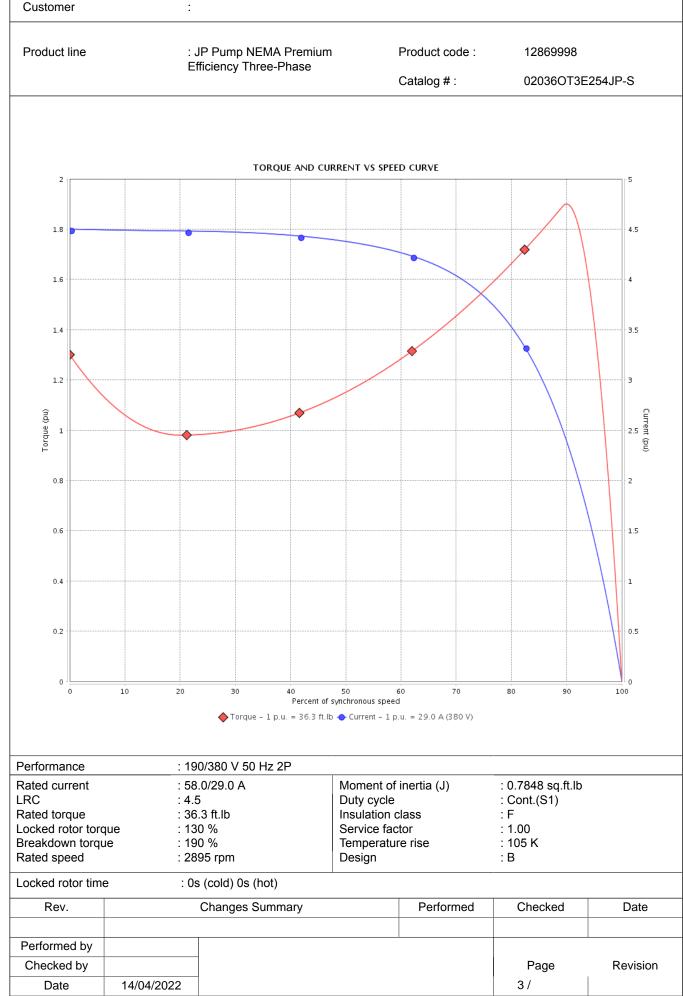


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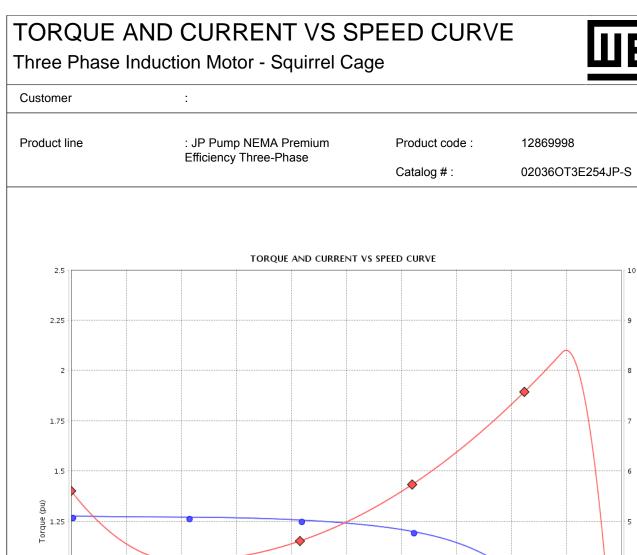
## TORQUE AND CURRENT VS SPEED CURVE

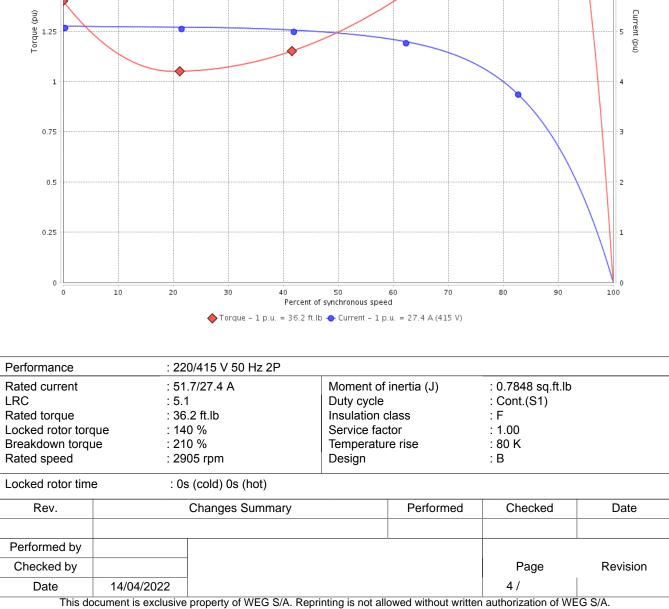
Three Phase Induction Motor - Squirrel Cage

#### Customer



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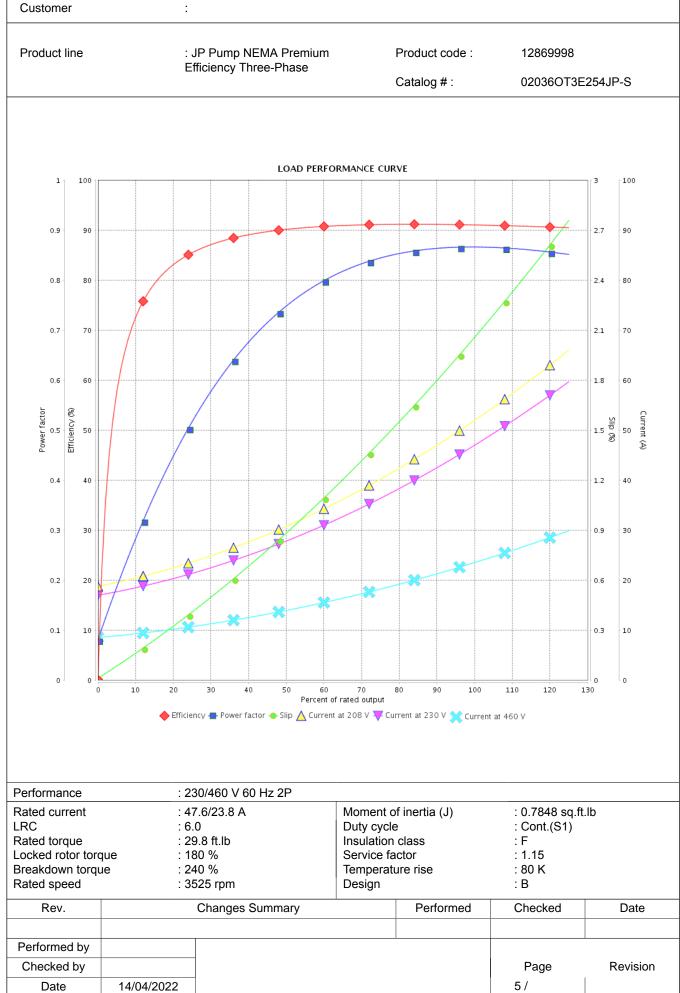




## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



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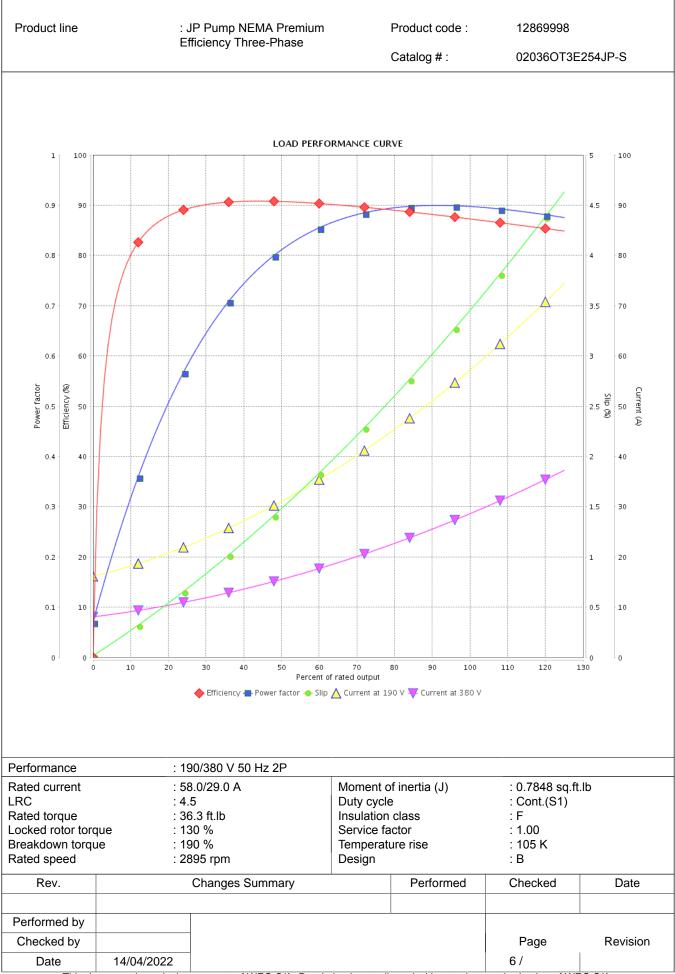
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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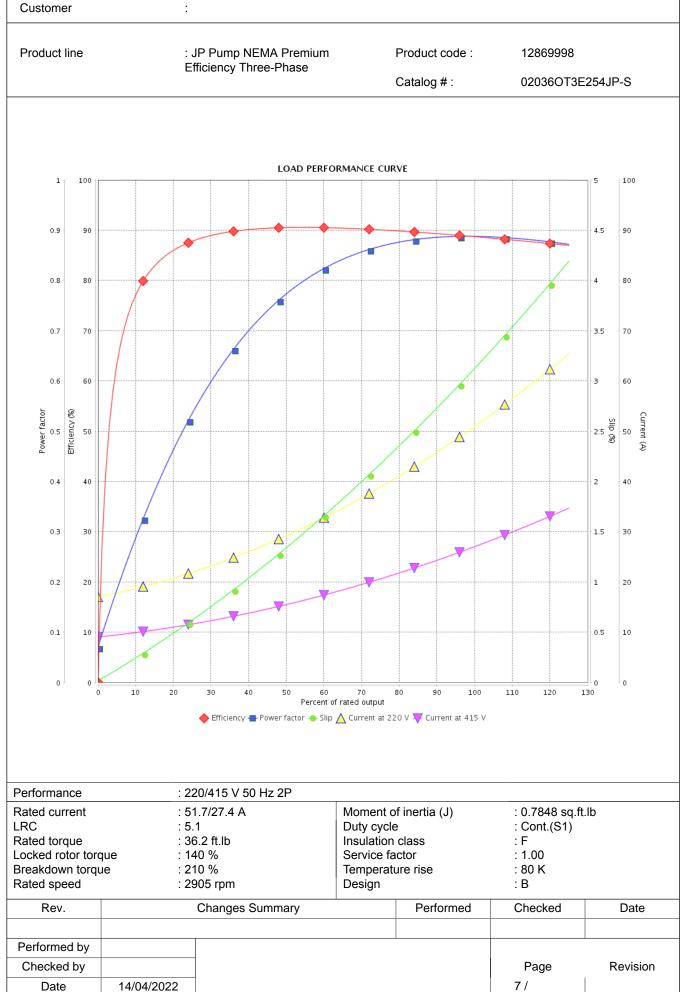
Customer



# LOAD PERFORMANCE CURVE

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# THERMAL LIMIT CURVE

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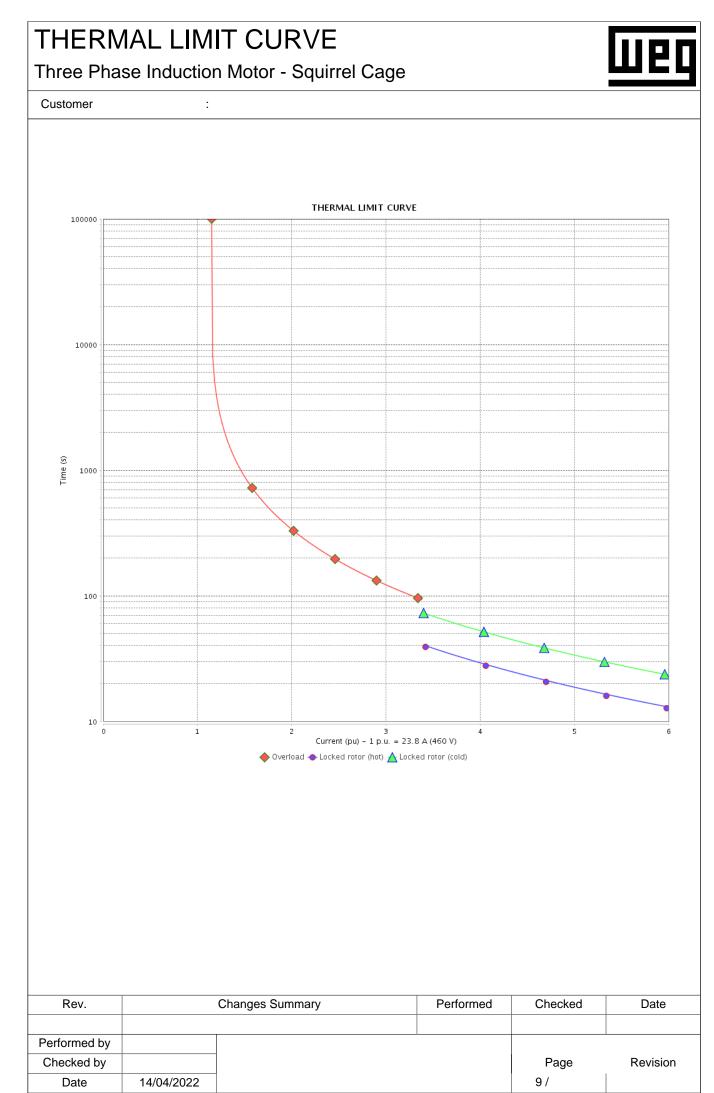


Customer

Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12869998	
	L			Catalog # :	02036OT3E	254JP-S
Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC	ated current : 47.6/23.8 A RC : 6.0		Moment of inertia (J) Duty cycle		: 0.7848 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor toro		9.8 ft.lb 80 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		40 %	Temperati		: 80 K	
Rated speed		525 rpm	Design		: B	
Heating constan	t					
Cooling constant					ſ	
Rev.		Changes Summary		Performed	Checked	Date
		1				
Performed by		-			<b>F</b>	D · ·
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# THERMAL LIMIT CURVE

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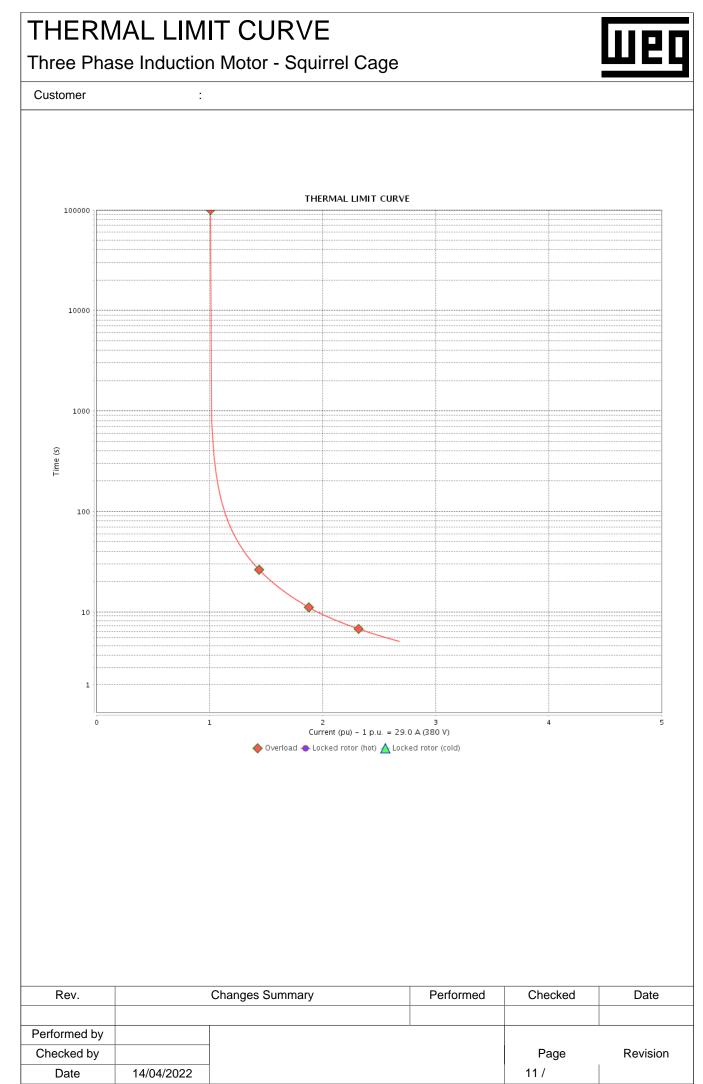


Customer

Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12869998	
				Catalog # :	02036OT3E	254JP-S
Performance	: 19	90/380 V 50 Hz 2P				
Rated current LRC	.RC : 4.5		Moment of inertia (J) Duty cycle		: 0.7848 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		5.3 ft.lb 30 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		90 %	Temperati		: 105 K	
Rated speed		395 rpm	Design		: B	
Heating constant						
Cooling constant						
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# THERMAL LIMIT CURVE

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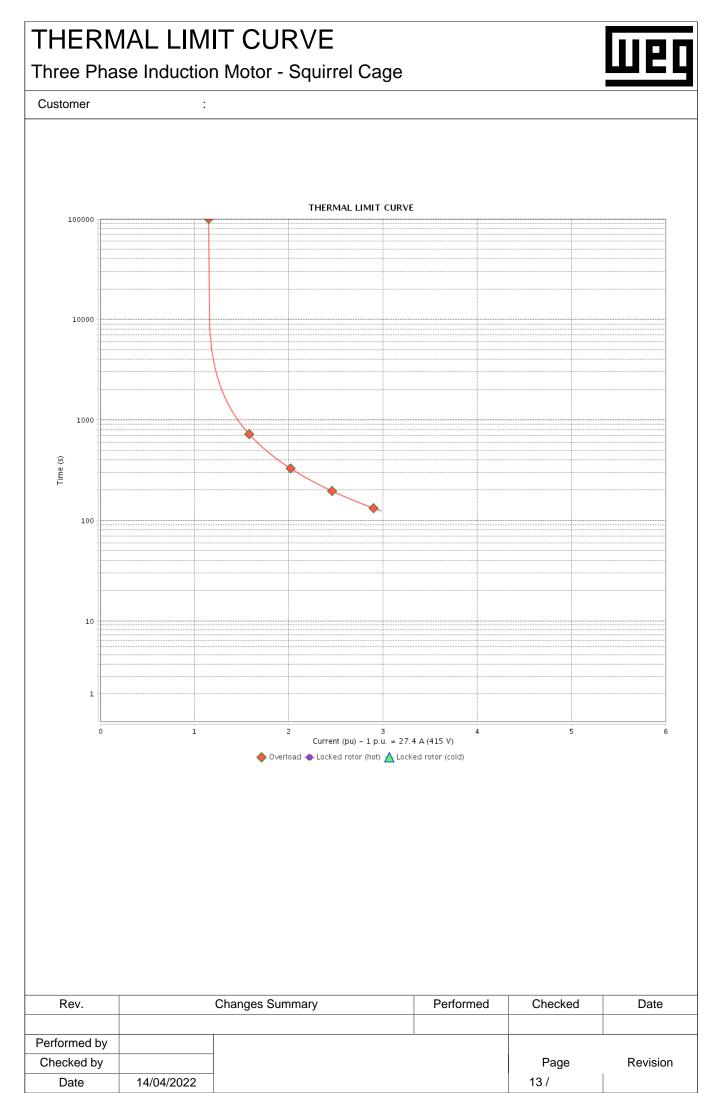


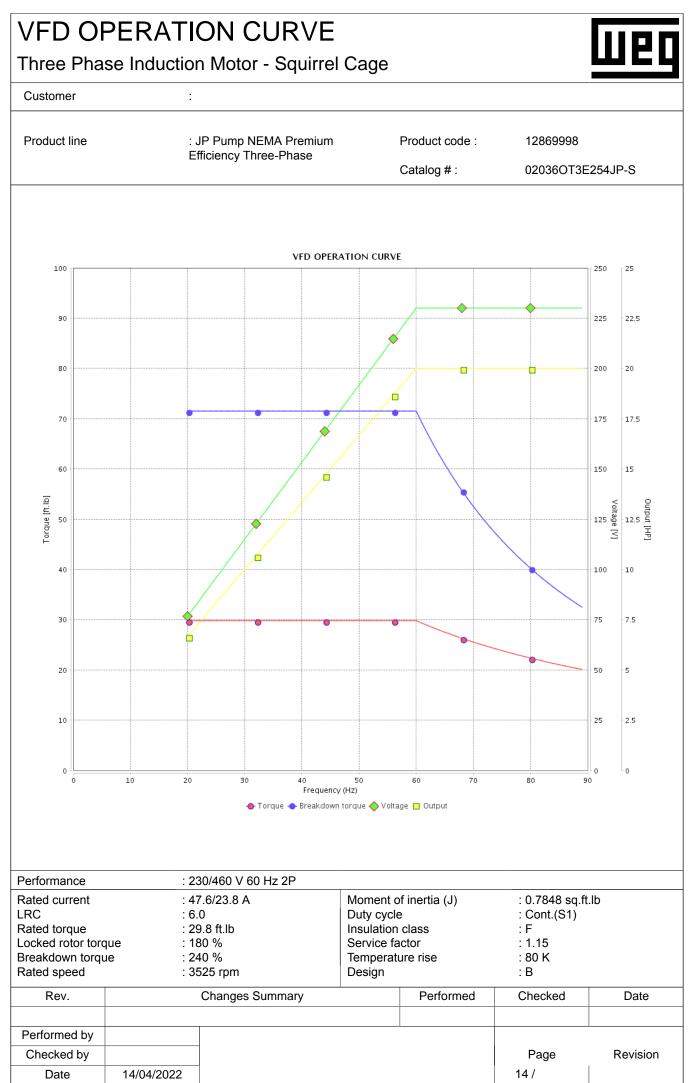
Customer

Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12869998	
		······, ······		Catalog # :	02036OT3E	254JP-S
Performance	: 22	20/415 V 50 Hz 2P				
Rated current : 51.7/27.4 A				f inertia (J)	: 0.7848 sq.ft.lb	
LRC Rated torque	: 5. · 36	1 6.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torqu	ue : 14	40 %	Service fa		: 1.00	
Breakdown torque		10 %	Temperatu	ure rise	: 80 K	
Rated speed	: 29	905 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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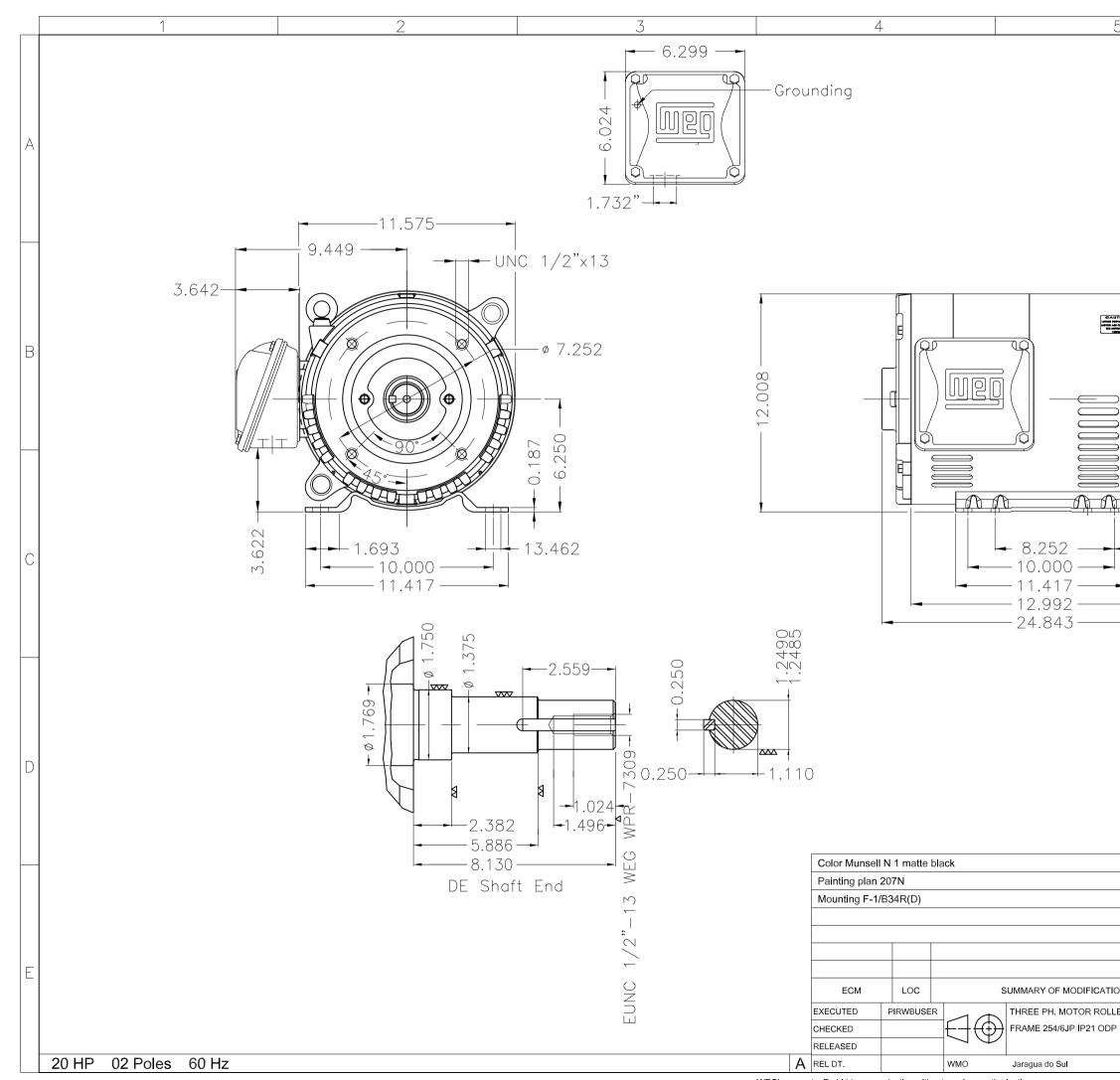
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