DATA SHEET

Three Phase Induction Motor - Squirrel Cage

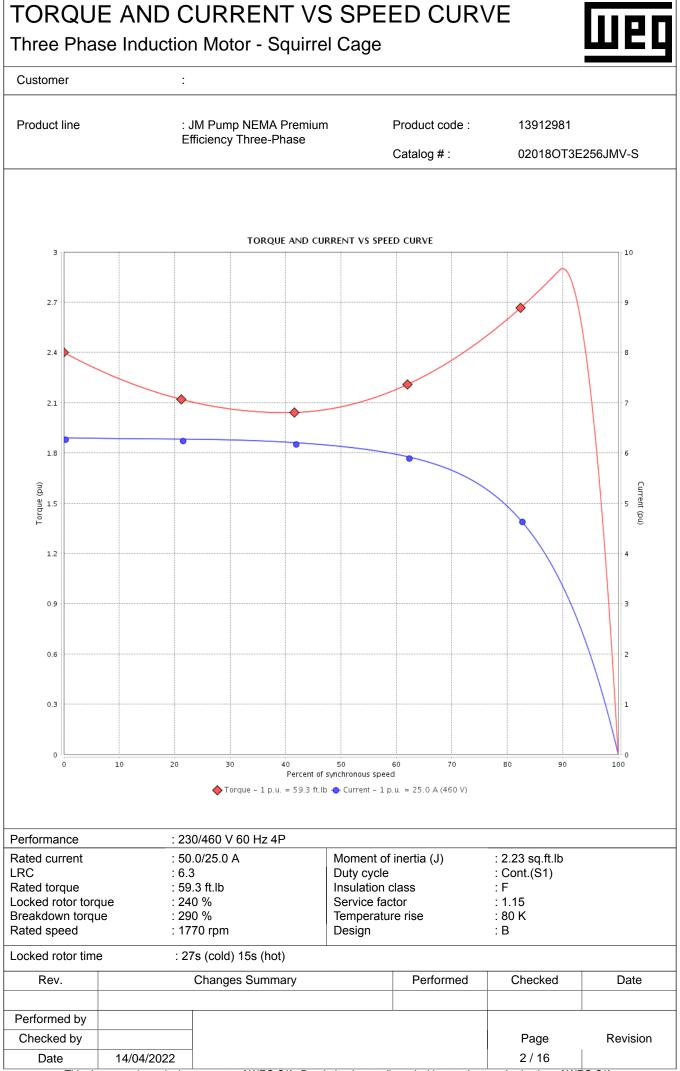
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Customer

Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13912981	
			Catalog # :	02018OT3E256JMV-S	
Frame		: 254/6JM	Cooling method	: IC01 - ODP	
Insulation class		: F	Mounting	: W-6	
Duty cycle		: Cont.(S1)	Rotation ¹	: 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 ³	: 225 lb	
Design		: B	Moment of inertia (J)	: 2.23 sq.ft.lb	
•					
Output [HP]		20	20	20	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		50.0/25.0	59.8/29.9	54.0/28.6	
L. R. Amperes [A]		315/158	311/155	313/166	
LRC [A]		6.3x(Code G)	5.2x(Code F)	5.8x(Code G)	
	1				
No load current [A		22.9/11.4	22.4/11.2	23.6/12.5	
Rated speed [RPN	VIJ	1770	1460	1465	
Slip [%]		1.67	2.67	2.33	
Rated torque [ft.lb		59.3	71.9	71.7	
Locked rotor torqu	ıe [%]	240	180	200	
Breakdown torque		290	220	250	
Service factor		1.15	1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		27s (cold) 15s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)	
Locked rotor time Noise level ²		64.0 dB(A)	62.0 dB(A)	62.0 dB(A)	
	050/				
	25%	91.7	93.0	92.2	
Efficiency (%)	50%	92.4	91.8	91.4	
	75%	92.4	91.2	91.3	
	100%	93.0	89.7	90.2	
	25%	0.38	0.46	0.41	
	50%	0.63	0.72	0.68	
Power Factor	75%	0.74	0.82	0.79	
	100%	0.81	0.85	0.84	
		Drive end Non drive end	Foundation loads		
Decrimentume					
Bearing type		: 6309 Z C3 6208 Z C3	Max. traction	: 747 lb : 972 lb	
Sealing		: Without Without	Max. compression		
		Bearing Seal Bearing Seal			
Lubrication inter		: 20000 h 20000 h			
Lubricant amour	nt	: 13 g 8 g			
Lubricant type		: Mobil Polyrex EM			
,,					
Notes USABLE @208V	′ 55.3A SF 1.	00 SFA 55.3A			
	ed. notor from the			based on tests with sinusoidal e tolerances stipulated in NEMA	
must be eliminate (1) Looking the m		$derance of \pm 3dR(\Lambda)$			
must be eliminate (1) Looking the m (2) Measured at	weight subjec ocess.	t to changes after			
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	weight subjec ocess.		Performed	Checked Date	
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must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate w manufacturing pr (4) At 100% of fu Rev.	weight subjec ocess.	Changes Summary	Performed		

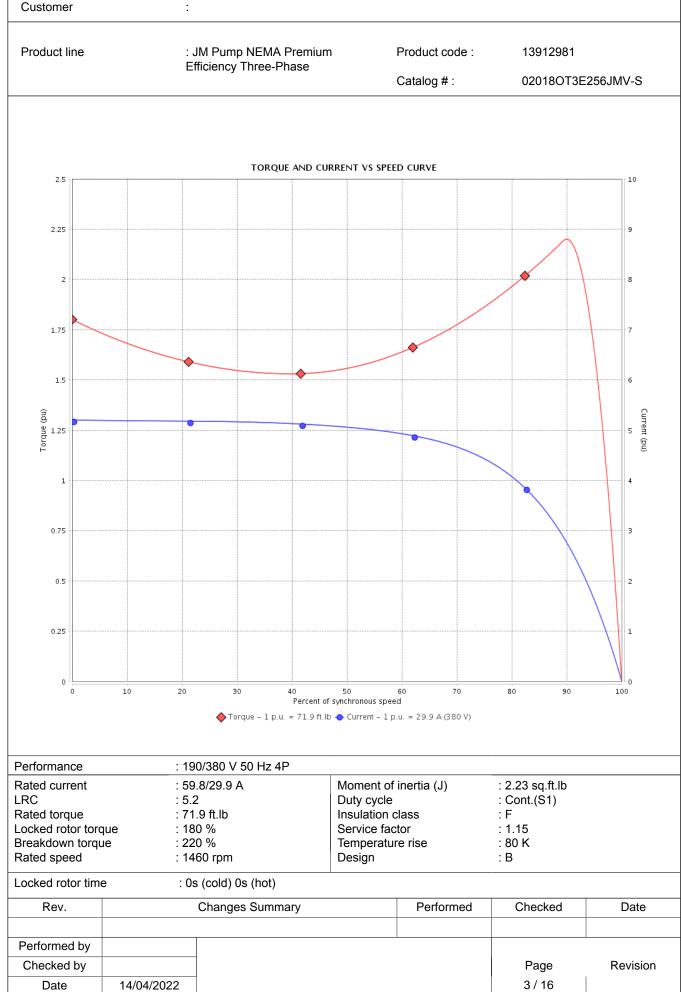
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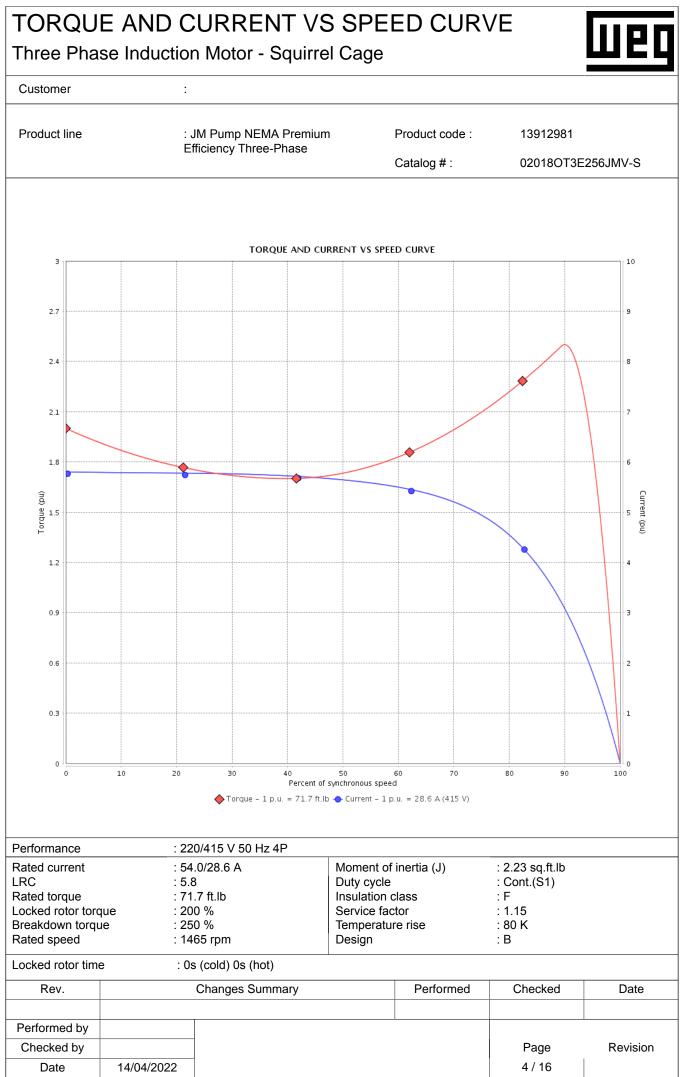
TORQUE AND CURRENT VS SPEED CURVE

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Customer



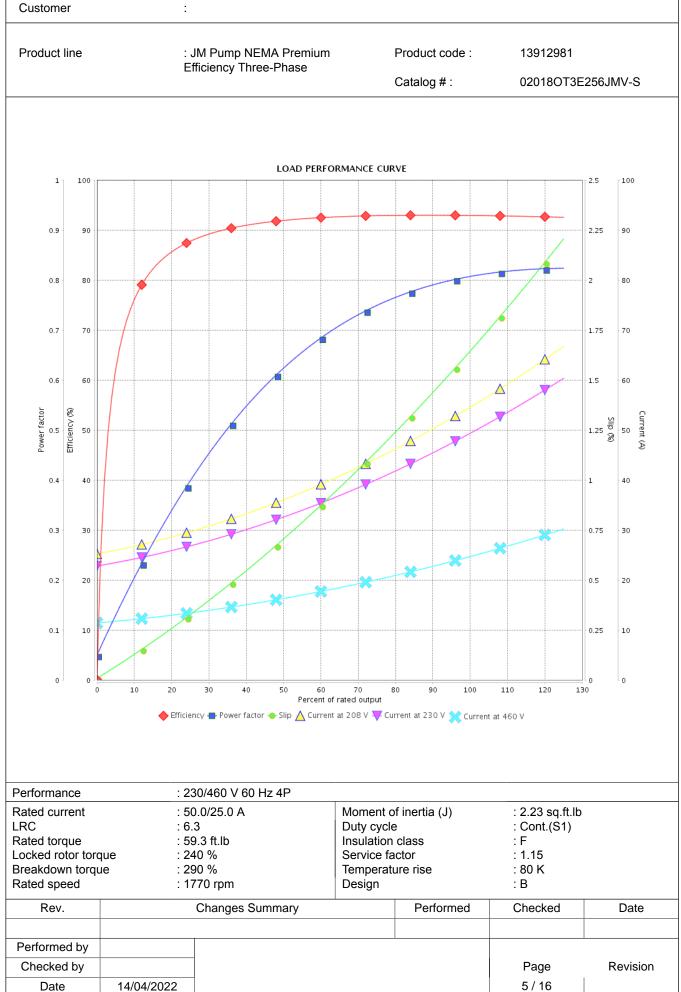
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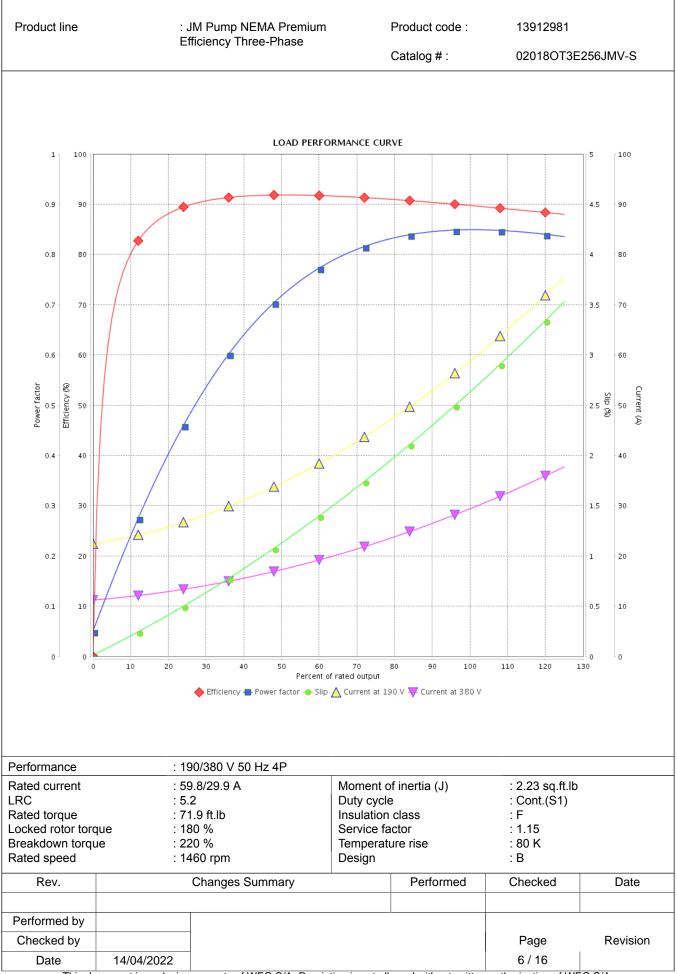
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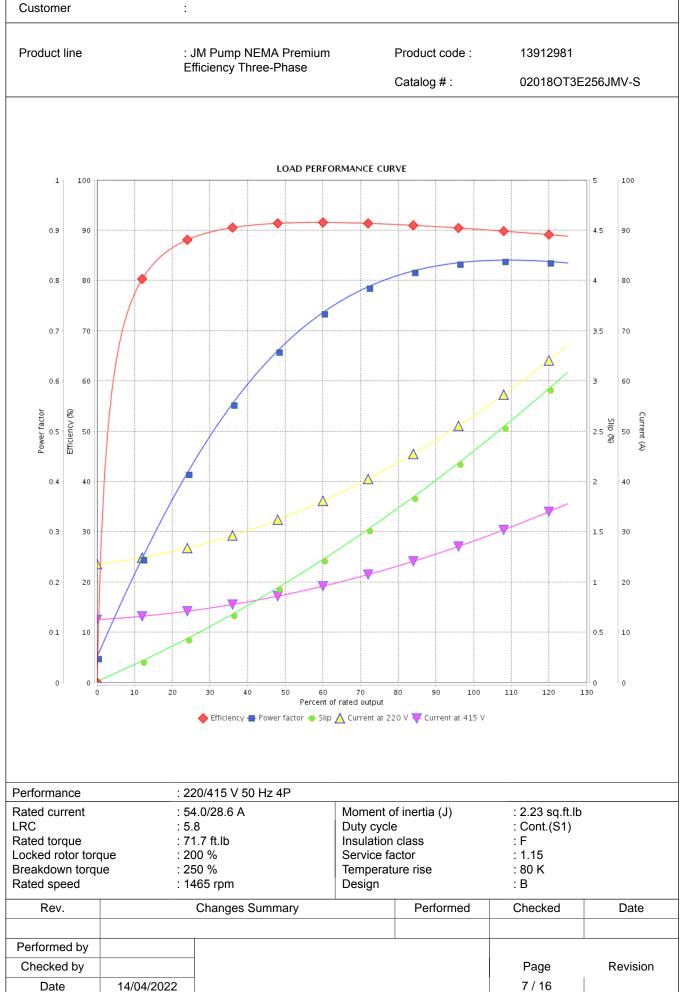
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THERMAL LIMIT CURVE

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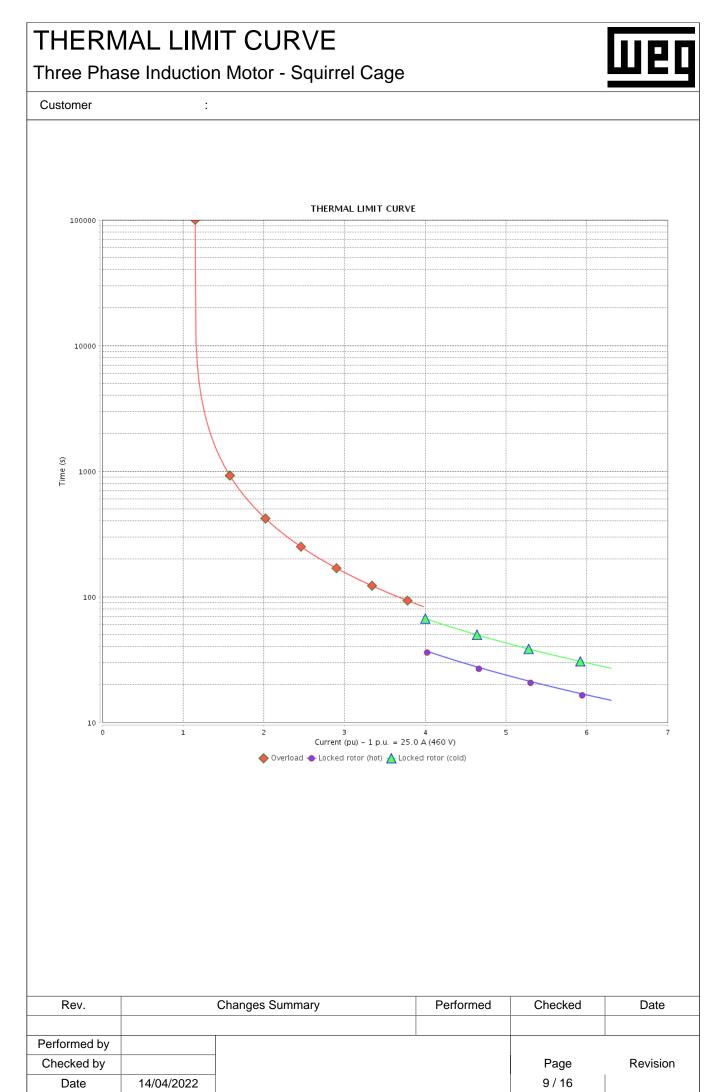
Customer

Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13912981	13912981	
	-			Catalog # :	02018OT3E256JMV-S		
Performance	: 2	230/460 V 60 Hz 4P					
Rated current		50.0/25.0 A		f inertia (J)	: 2.23 sq.ft.lb		
LRC	: 6		Duty cycle		: Cont.(S1)		
Rated torque Locked rotor toro		59.3 ft.lb 240 %	Insulation Service fa		: F : 1.15		
Breakdown torqu	Je : 2	290 %	Temperati		: 80 K		
Rated speed	: 1	770 rpm	Design		: B		
Heating constan	t						
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
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Performed by							
Checked by					Page	Revision	
Date	14/04/2022				8 / 16		

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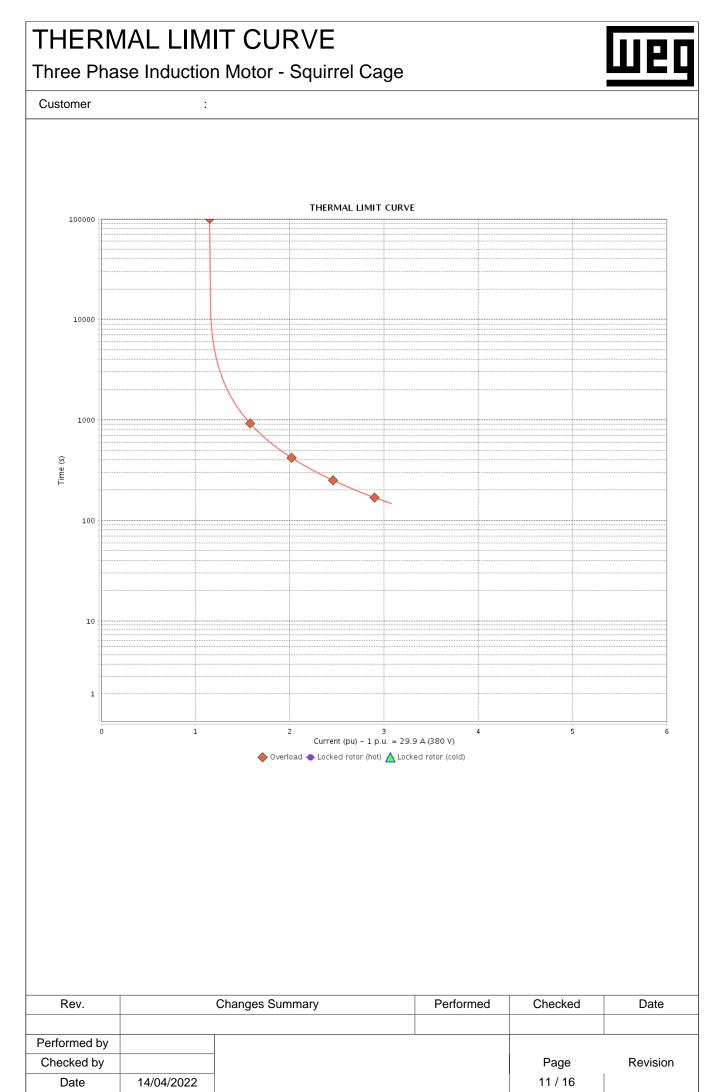
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Customer

Efficiency Three-Phase	13912981 02018OT3E256JMV-S	
Performance : 190/380 V 50 Hz 4P		
Rated current: 59.8/29.9 AMoment of inertia (J): 2.23 sq.ft.lbLRC: 5.2Duty cycle: Cont.(S1)		
Rated torque : 71.9 ft.lb Insulation class : F		
Locked rotor torque : 180 % Service factor : 1.15		
Breakdown torque: 220 %Temperature rise: 80 KRated speed: 1460 rpmDesign: B		
Heating constant Cooling constant		
Rev. Changes Summary Performed Checked Date		
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Date 14/04/2022 10 / 16		

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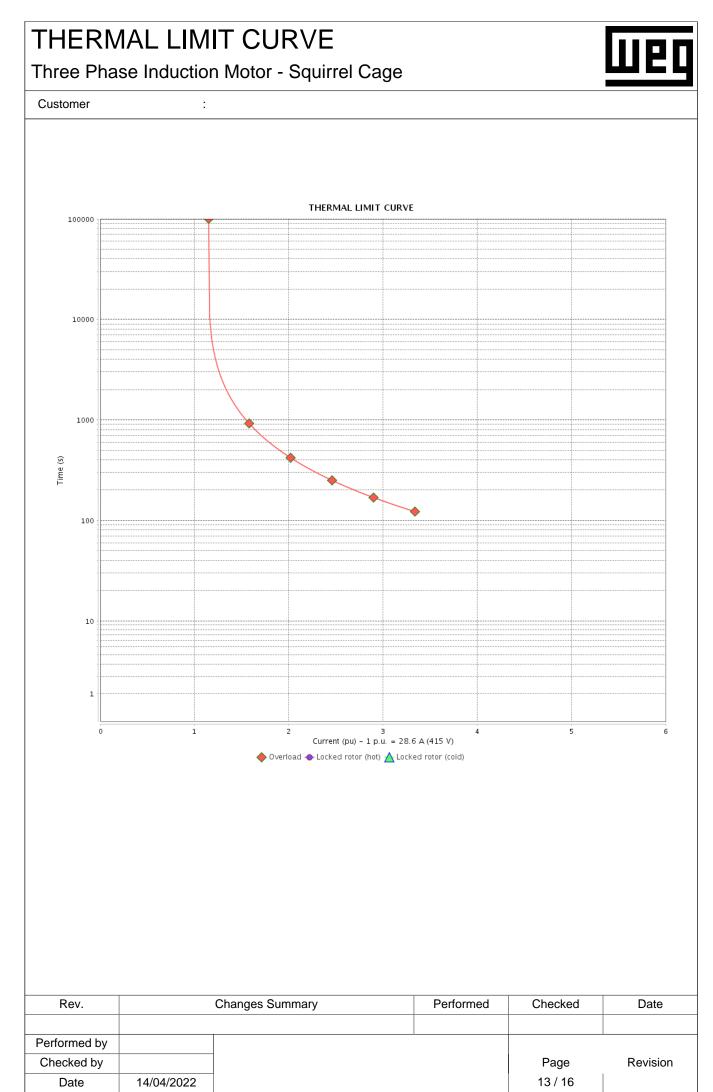
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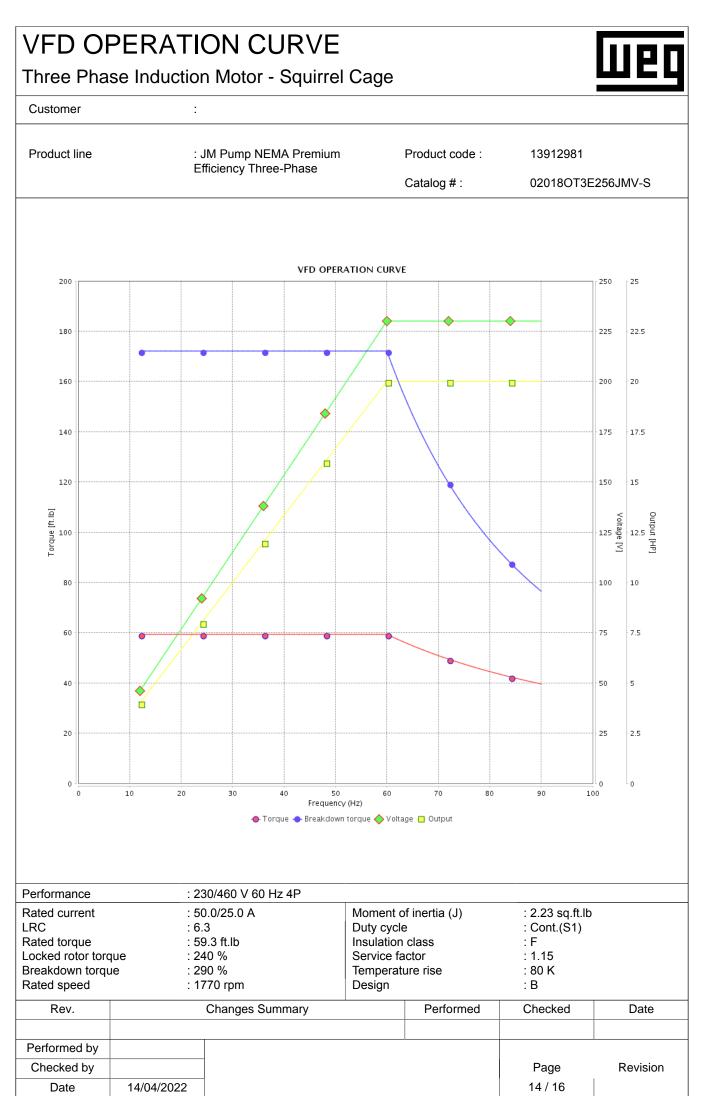


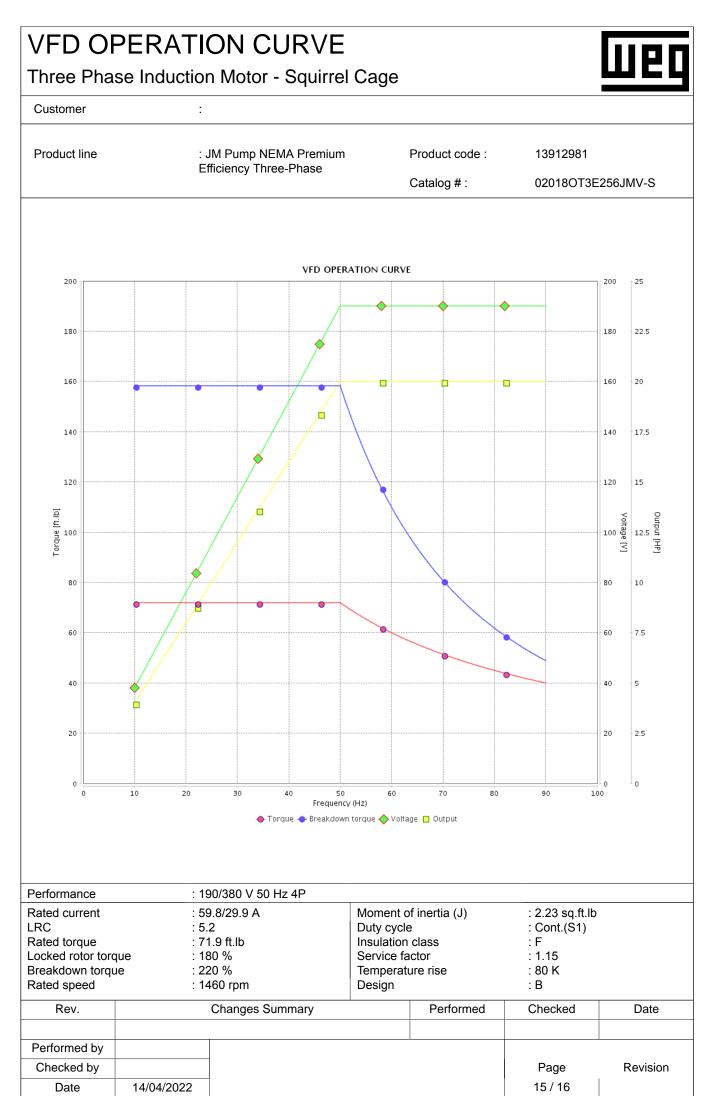
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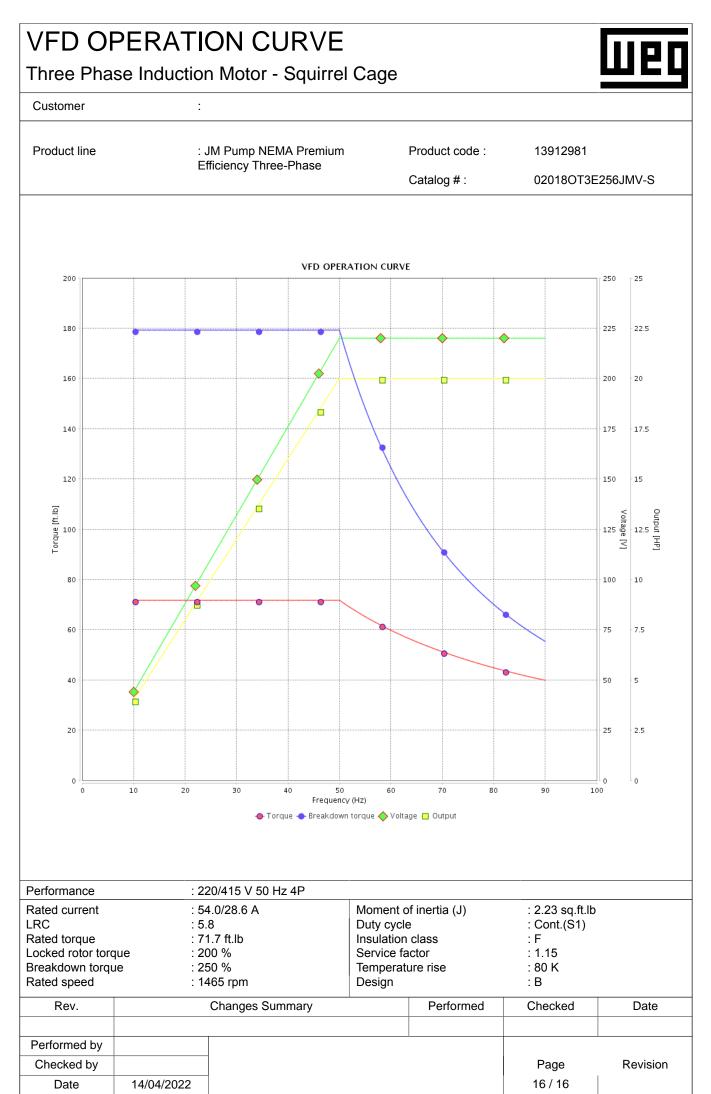
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13912981 02018OT3E256JMV-S	
				Catalog # :	02016013E	20011/10-3
Performance		20/415 V 50 Hz 4P				
Rated current		4.0/28.6 A	Moment o	f inertia (J)	: 2.23 sq.ft.lb	
Rated current154.0/2LRC15.8Rated torque171.7 ftLocked rotor torque200 %Breakdown torque250 %Rated speed1465 ft		Duty cycl7 ft.lbInsulation0 %Service fa0 %Temperation		class ctor	: Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant						
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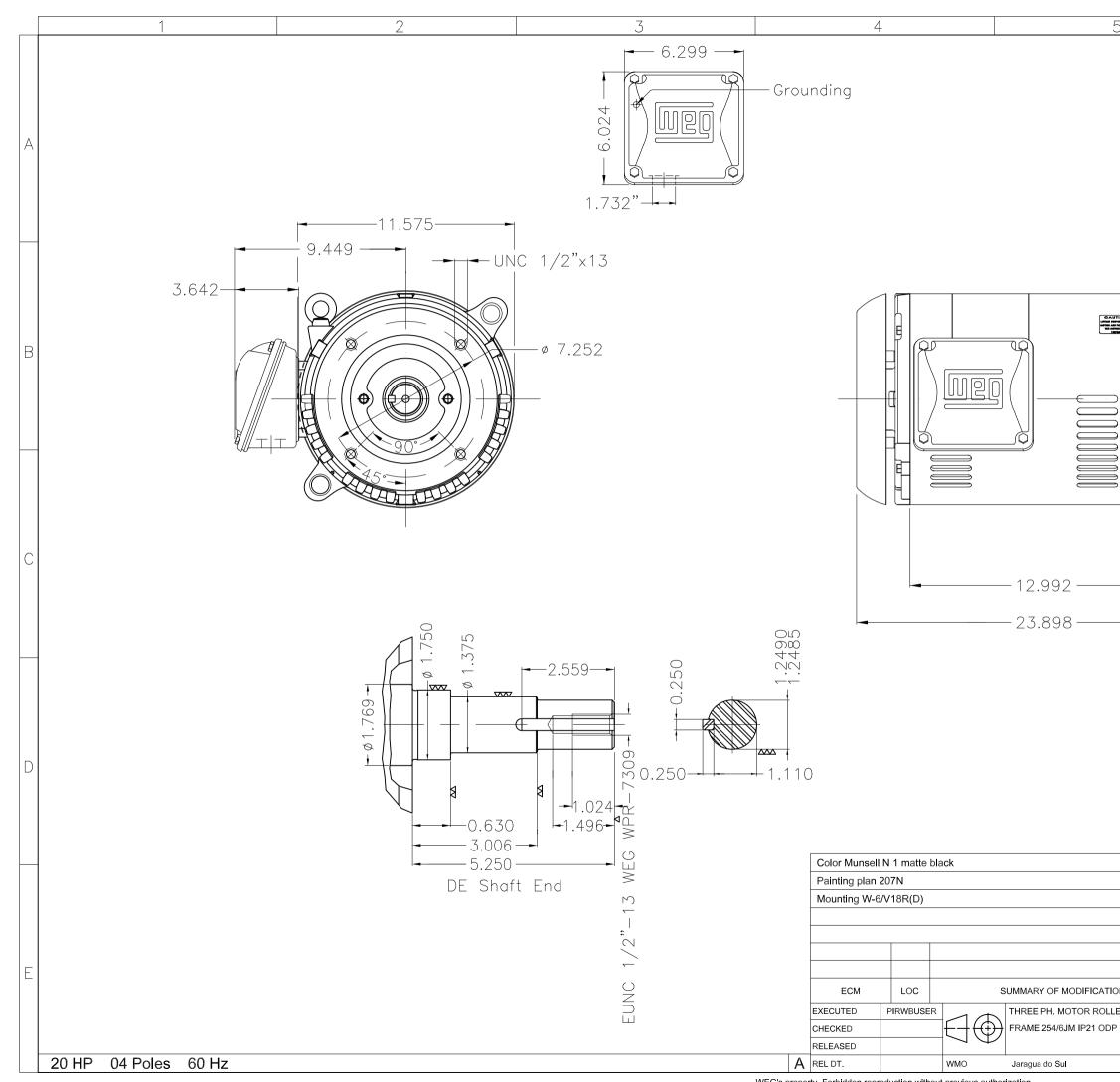
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