DATA SHEET

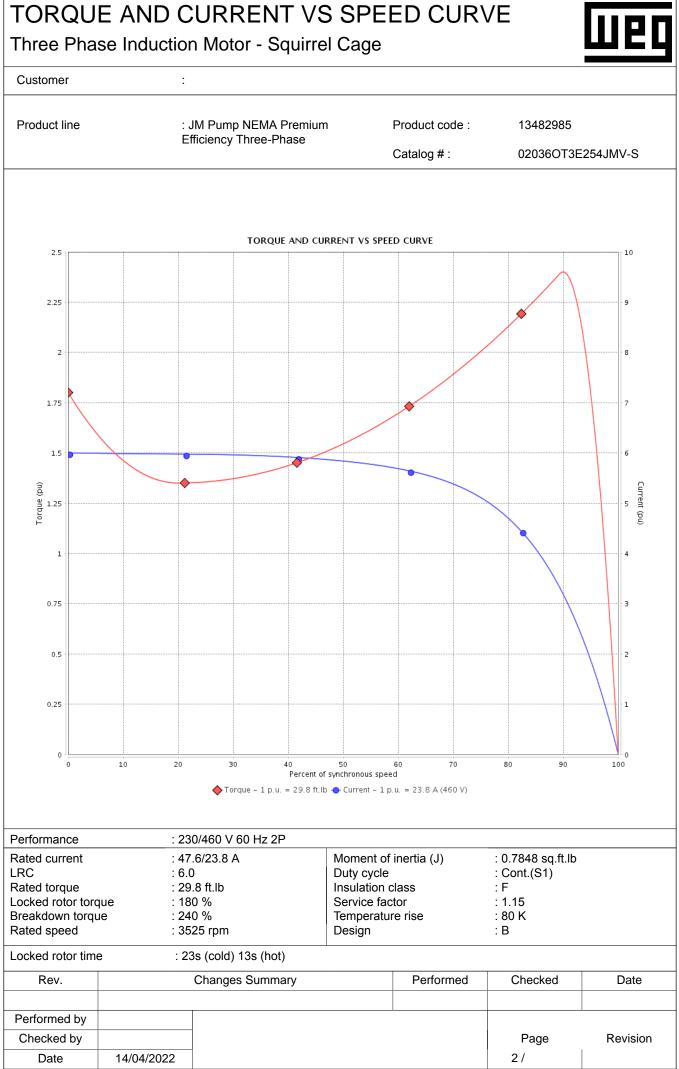
Three Phase Induction Motor - Squirrel Cage

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Customer

		: JM Pump NEMA Premium Efficiency Three-Phase	n Product code :	13482985		
			Catalog # :	02036OT3E2	02036OT3E254JMV-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 temperature		: -20°C to +40°C	Starting method		: Direct On Line	
Altitude	ature	: 1000 m.a.s.l.	Approx. weight ³	: 176 lb		
		: 1000 m.a.s.i. : B	Moment of inertia (J)		+ Ib	
Design		Ъ	Moment of menta (J)	: 0.7848 sq.f	t.1D	
Dutput [HP]		20	20		20	
Poles		2	2		2	
Frequency [Hz]		60	50		50	
Rated voltage [V]		230/460	190/380			
Rated current [A]		47.6/23.8	58.0/29.0	51.	51.7/27.4	
. R. Amperes [A]		286/143	261/131	264	264/140	
_RC [A]		6.0x(Code G)	4.5x(Code D)		5.1x(Code E)	
No load current [A	1	17.0/8.50	16.2/8.09			
					17.1/9.04	
Rated speed [RPN	/I]	3525	2895		905	
Slip [%]		2.08	3.50		3.17	
Rated torque [ft.lb]		29.8	36.3		36.2	
Locked rotor torqu	e [%]	180	130	1	140	
Breakdown torque		240	190	2	210	
Service factor		1.15	1.00		1.00	
Temperature rise		80 K	105 K		80 K	
Locked rotor time		23s (cold) 13s (hot)	Os (cold) Os (hot)		Os (cold) Os (hot)	
Noise level ²	0.501	70.0 dB(A)	68.0 dB(A)) dB(A)	
	25%	90.0	92.6		91.6	
Efficiency (%)	50%	90.2	90.6		0.6	
	75%	91.0	89.5		0.0	
	100%	91.0	87.2	8	88.7	
	25%	0.49	0.56).51	
_	50%	0.76	0.82		0.78	
Power Factor	75%	0.83	0.88).86	
	100%	0.83	0.88).89	
	100%				0.09	
		Drive end Non drive er				
Bearing type		: 6309 Z C3 6208 Z C	³ Max. traction	: 276 lb : 452 lb		
Sealing		: Without Without	Max. compression			
-		Bearing Seal Bearing Se	eal			
Lubrication interv	/al	: 15797 h 20000 h				
		: 13 g 8 g				
Lubricant amoun		: Mobil Polyrex EM				
Lubricant type						
	52.6A SF 1.	· · · · · · · · · · · · · · · · · · ·				
Lubricant type Notes USABLE @208V This revision repla must be eliminate	aces and car	00 SFA 52.6A	These are average values power supply, subject to the MC 1			
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1	aces and car ed. otor from the m and with t veight subjec ocess.	00 SFA 52.6A				
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	aces and car ed. otor from the m and with t veight subjec ocess.	00 SFA 52.6A ncel the previous one, which e shaft end. olerance of +3dB(A).	power supply, subject to the			
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	aces and car ed. otor from the m and with t veight subjec ocess.	00 SFA 52.6A ncel the previous one, which e shaft end. olerance of +3dB(A).	power supply, subject to th MG-1.	he tolerances stipul	ated in NEMA	
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	aces and car ed. otor from the m and with t veight subjec ocess.	00 SFA 52.6A ncel the previous one, which e shaft end. olerance of +3dB(A).	power supply, subject to th MG-1.	he tolerances stipul	ated in NEMA	
Lubricant type Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and car ed. otor from the m and with t veight subjec ocess.	00 SFA 52.6A ncel the previous one, which e shaft end. olerance of +3dB(A).	power supply, subject to th MG-1.	he tolerances stipul	ated in NEMA	

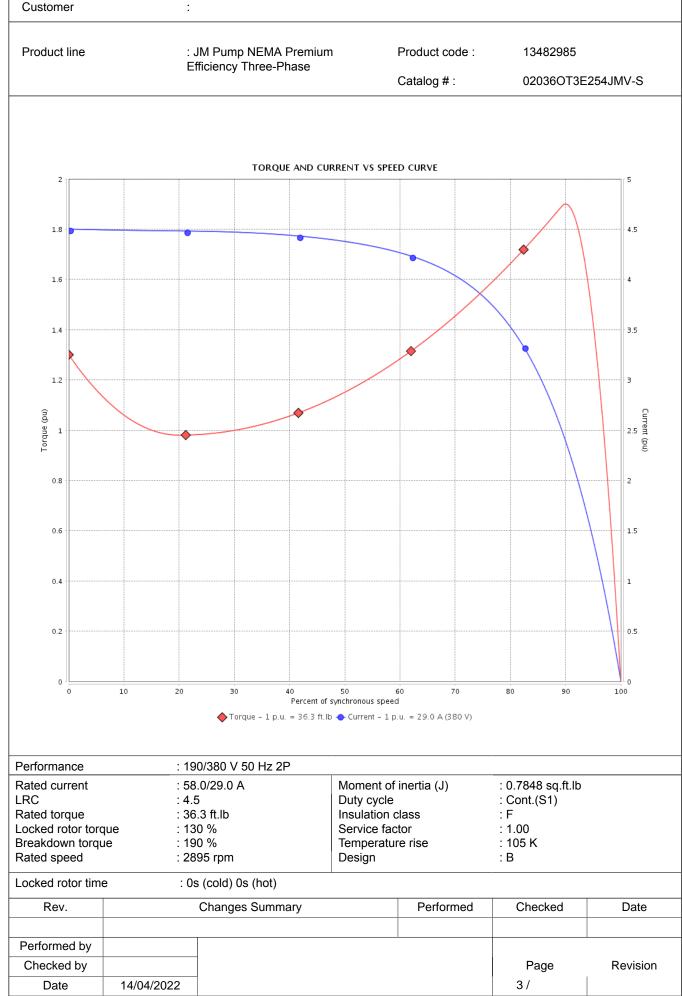


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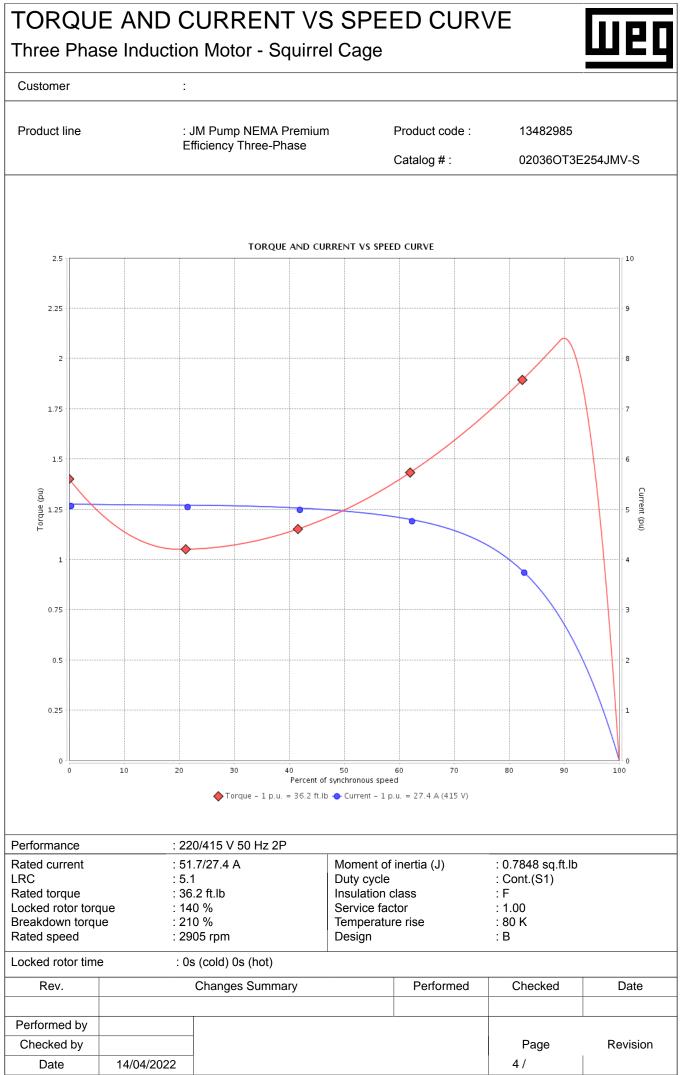
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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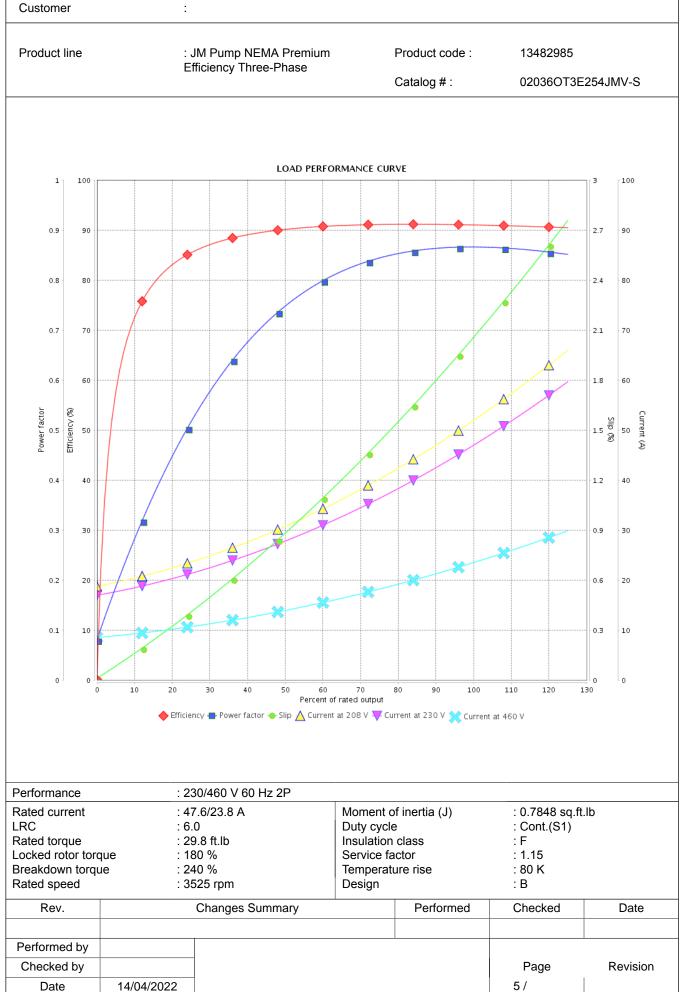


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LOAD PERFORMANCE CURVE

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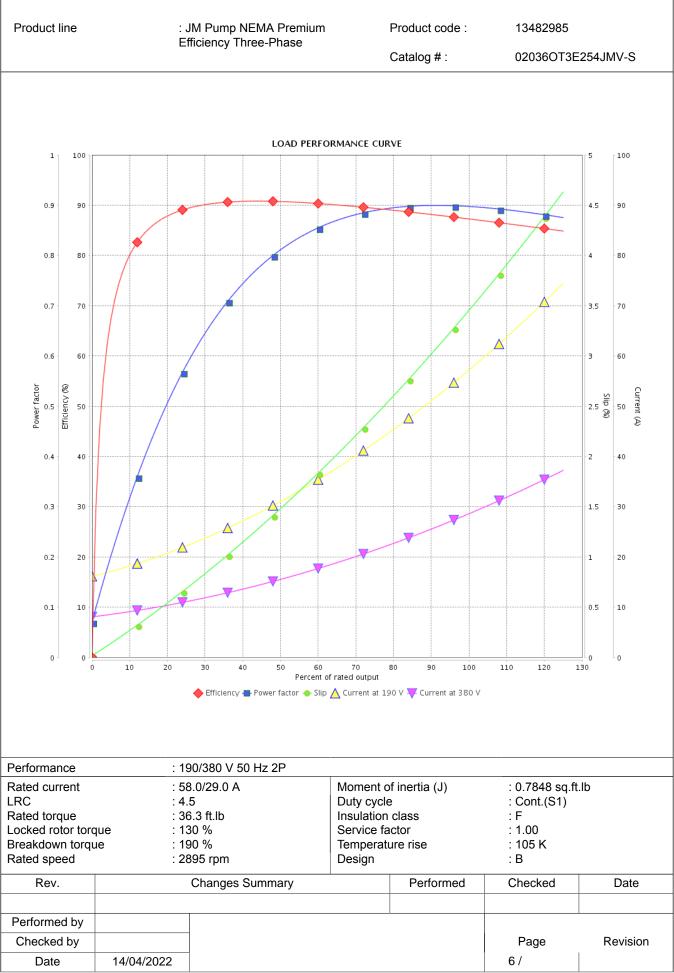
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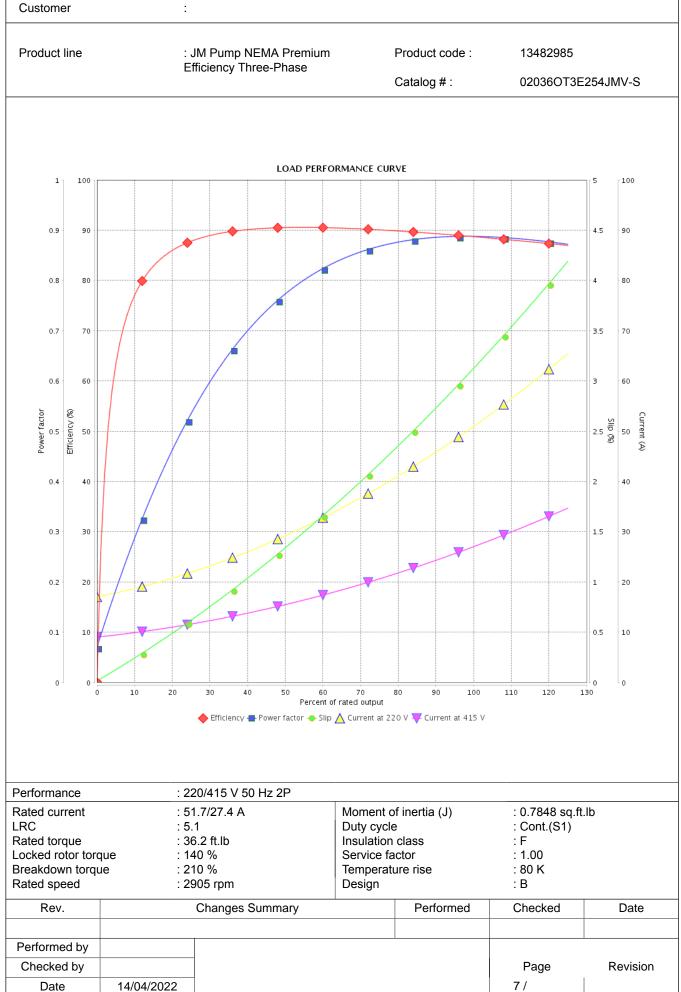
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THERMAL LIMIT CURVE

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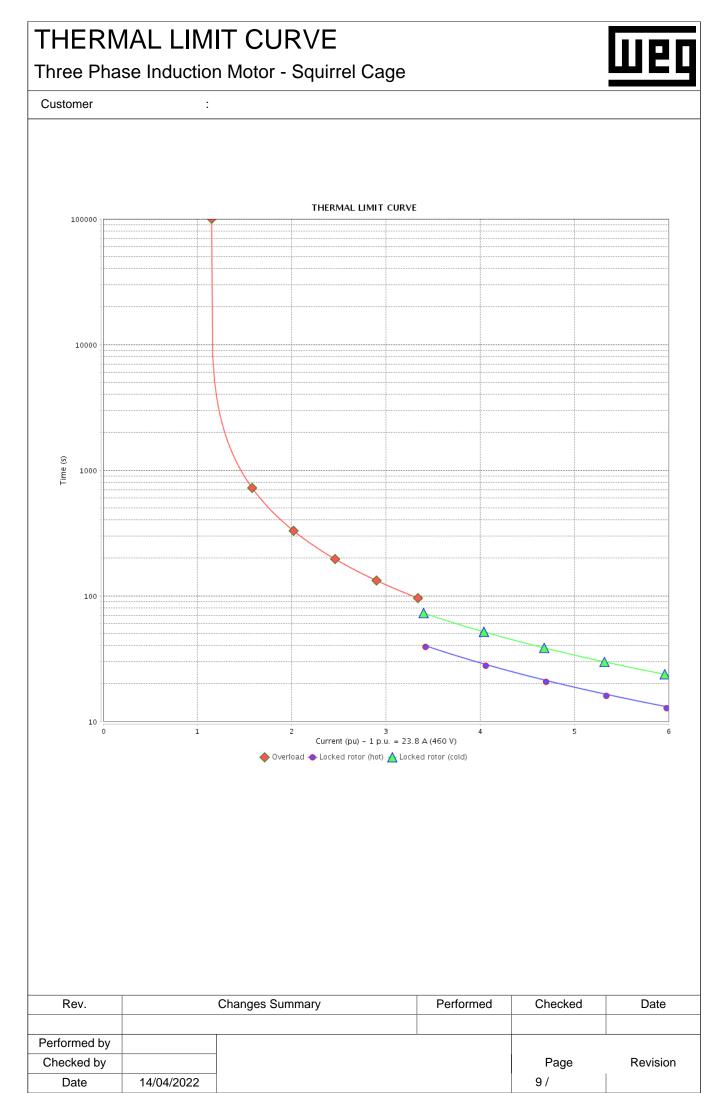


Customer

Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13482985	
				Catalog # :	02036OT3E2	02036OT3E254JMV-S
Performance		30/460 V 60 Hz 2P				
Rated current		7.6/23.8 A		f inertia (J)	: 0.7848 sq.ft.	lb
LRC Rated torque	: 6. · 20	0 9.8 ft.lb	Duty cycle Insulation	elass	: Cont.(S1) : F	
Locked rotor torque		30 %	Service fa		: 1.15	
Breakdown torque	e : 24	40 %	Temperate	ure rise	: 80 K	
Rated speed	: 38	525 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				8 /	

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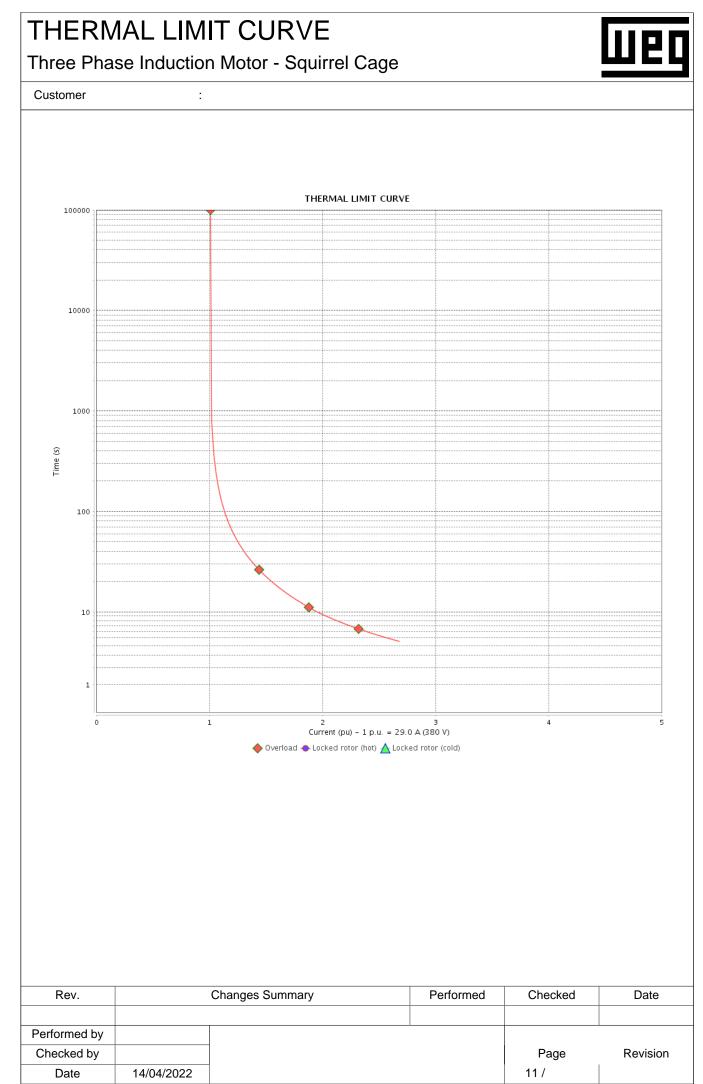


Customer

Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13482985	
				Catalog # :	02036OT3E	02036OT3E254JMV-S
Performance		90/380 V 50 Hz 2P				
Rated current: 58.0/29.0 ALRC: 4.5Rated torque: 36.3 ft.lbLocked rotor torque: 130 %Breakdown torque: 190 %Rated speed: 2895 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.7848 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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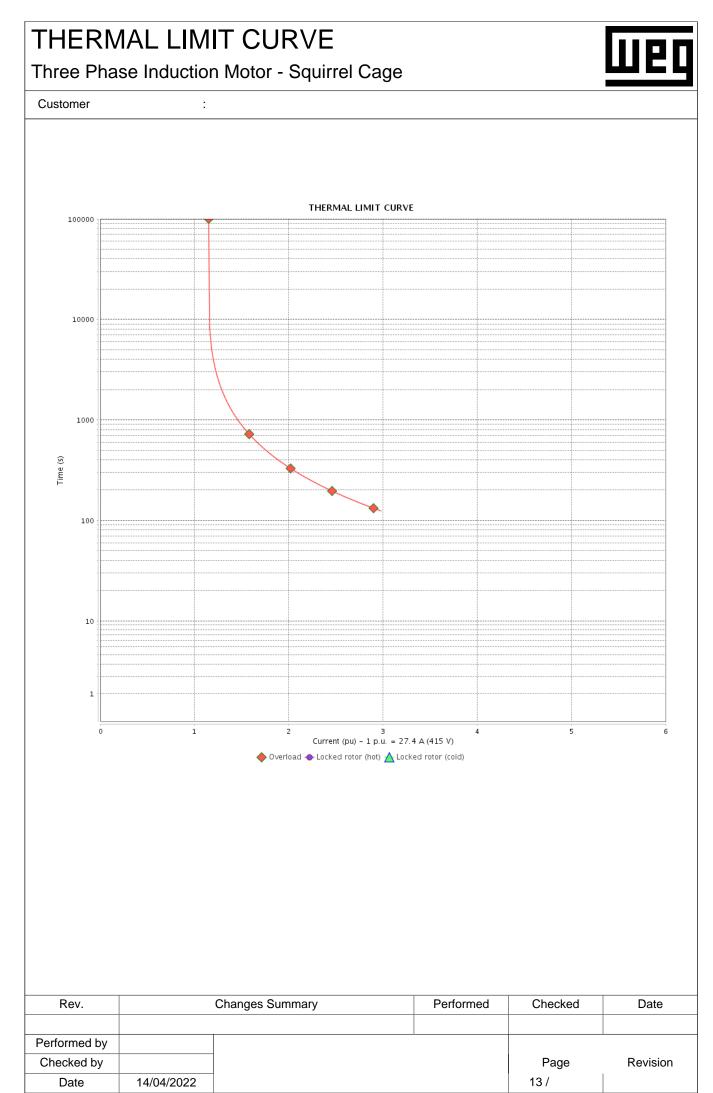
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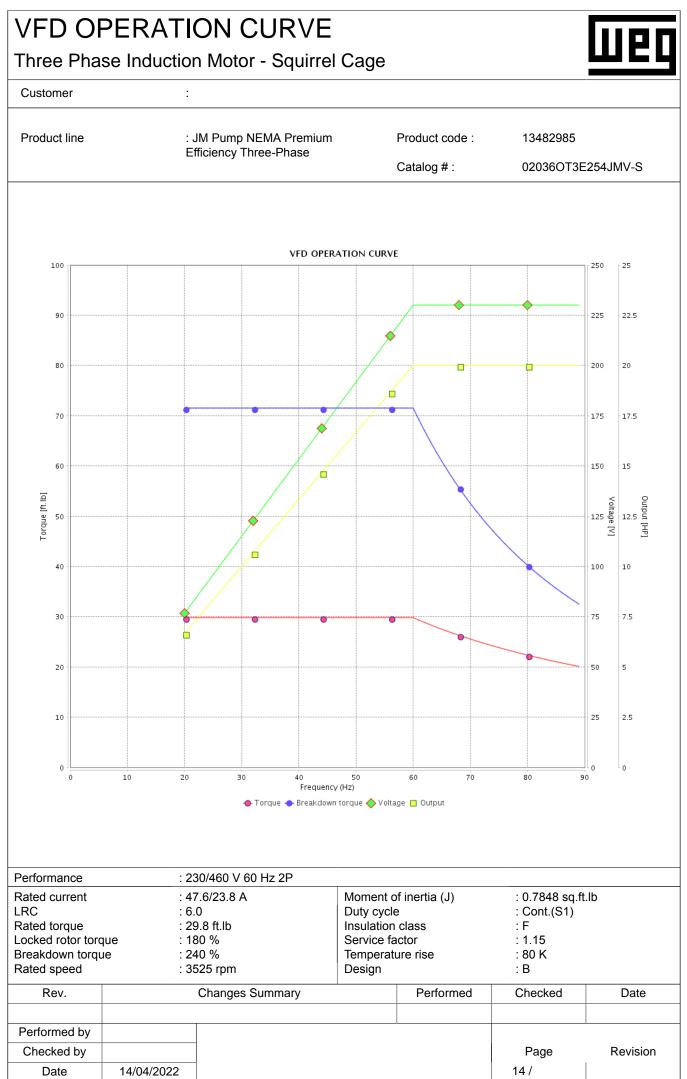


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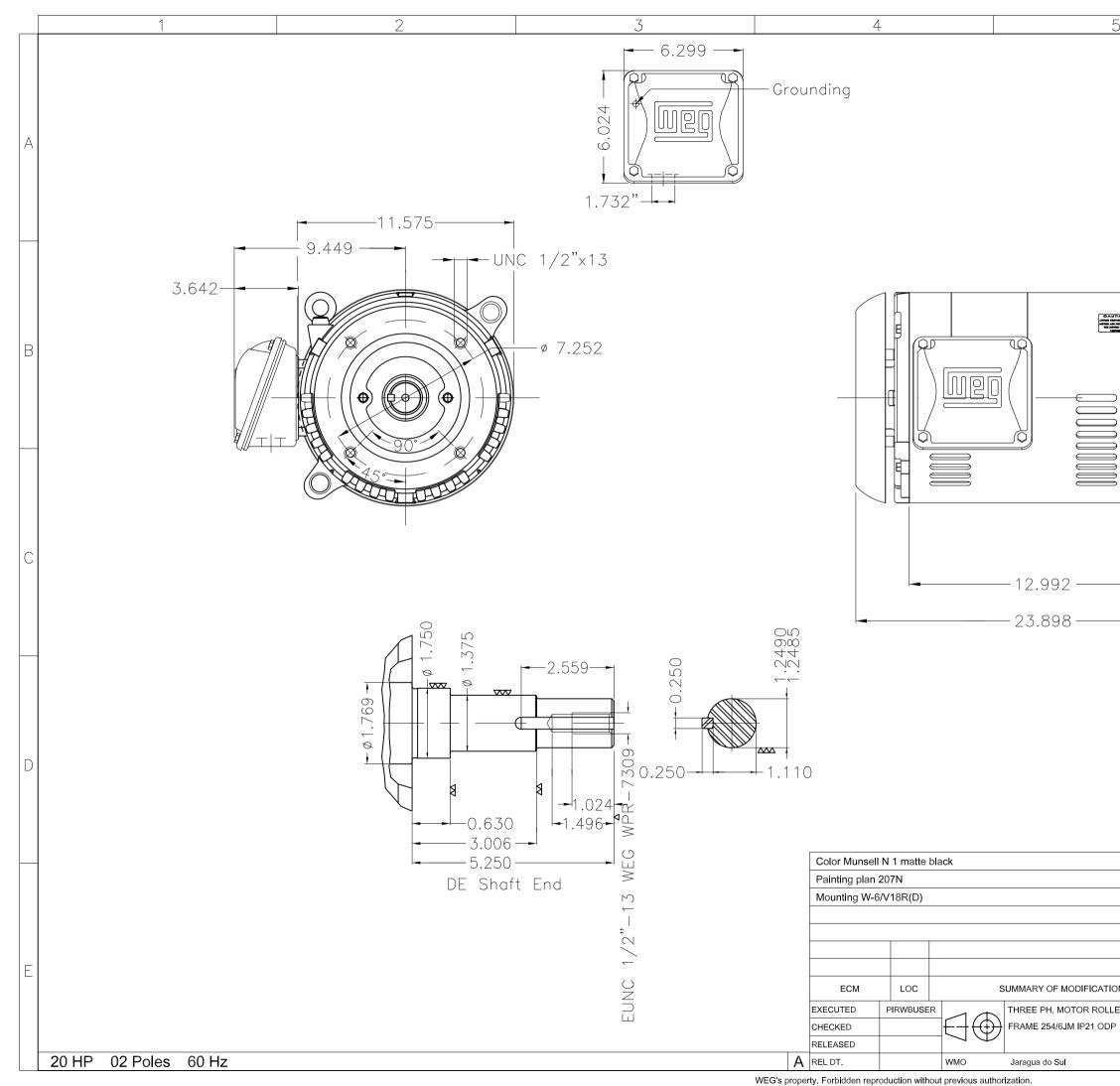
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13482985	
				Catalog # :	02036OT3E2	02036OT3E254JMV-S
Performance	• 2'	20/415 V 50 Hz 2P				
Rated current		1.7/27.4 A	Moment o	f inertia (J)	: 0.7848 sq.ft.l	h
LRC	: 5.	.1	Duty cycle	9	: Cont.(S1)	
Rated torque		6.2 ft.lb	Insulation		: F	
Locked rotor torque Breakdown torque		40 % 10 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		905 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					I	
Checked by		1			Page	Revision
Date	14/04/2022				12 /	

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	t Engineering		1 / 4		XME
Produc	t Engineering	SHEET	1 / 1		X

