# DATA SHEET

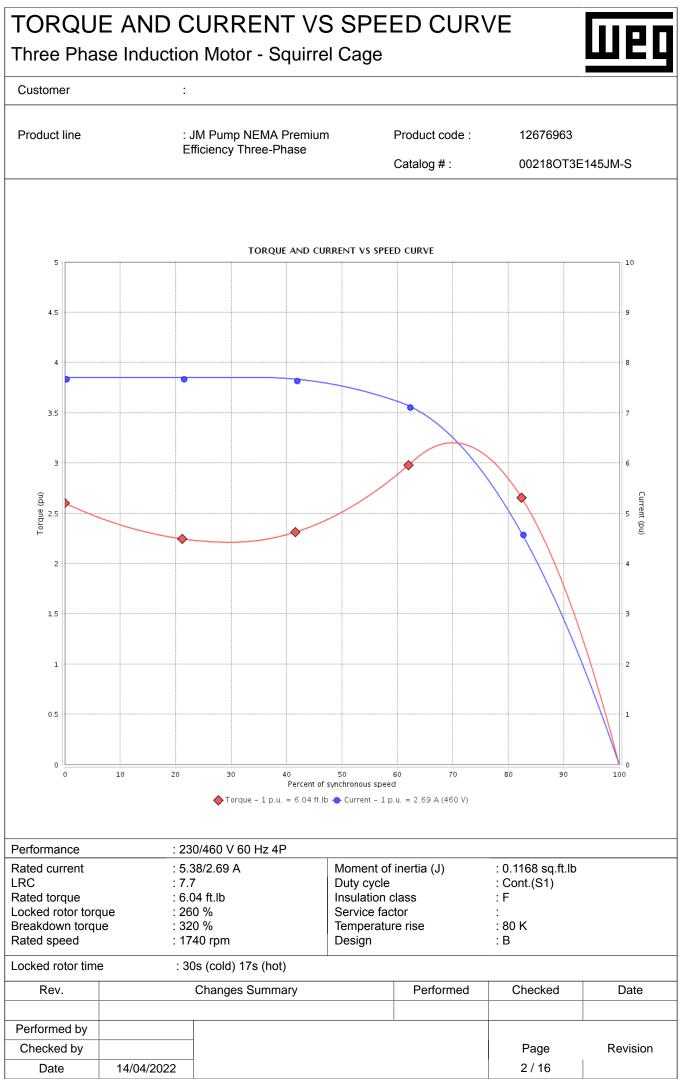
Three Phase Induction Motor - Squirrel Cage

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#### Customer

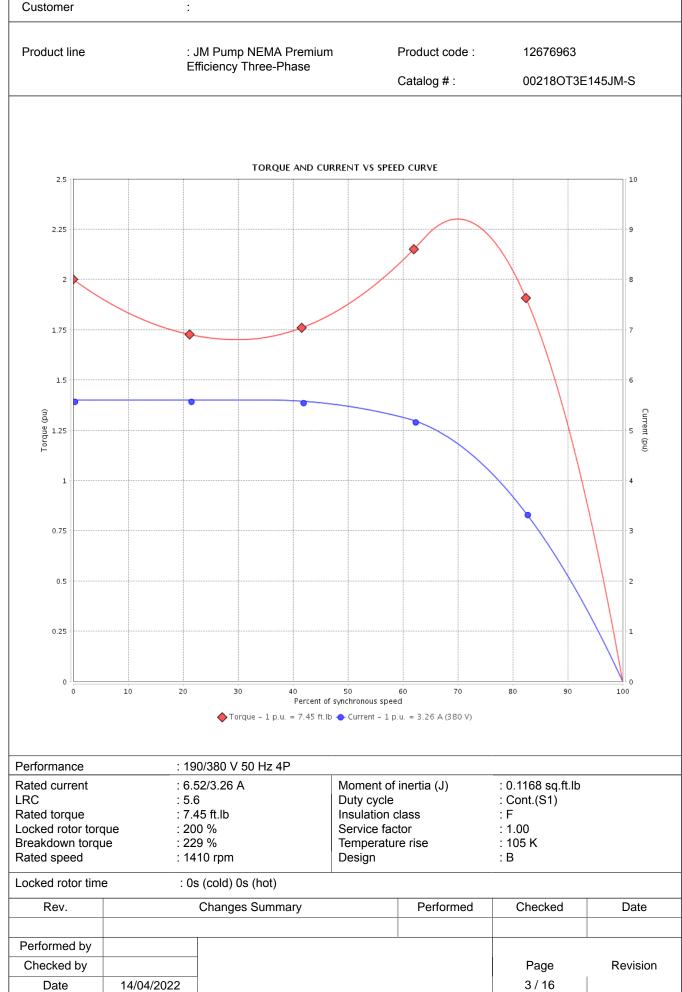
		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	12676963	
			Catalog # :	00218OT3E145JM-S	
Frame		: 143/5JM	Cooling method	: IC01 - ODP	
Insulation class		:F	Mounting	: F-1	
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 41.4 lb	
Design		: B	Moment of inertia (J)	: 0.1168 sq.ft.lb	
Output [HP]		2	2	2	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		5.38/2.69	6.52/3.26	5.90/3.13	
L. R. Amperes [A]		41.4/20.7	36.5/18.3	36.6/19.4	
LRC [A]		7.7x(Code K)	5.6x(Code G)	6.2x(Code H)	
No load current [A	-	2.75/1.38	2.70/1.35	2.82/1.49	
Rated speed [RPN	/]	1740	1410	1420	
Slip [%]		3.33	6.00	5.33	
Rated torque [ft.lb]		6.04	7.45	7.40	
Locked rotor torqu		260	200	220	
Breakdown torque	[%]	320	229	260	
Service factor			1.00	1.00	
Temperature rise		80 K	105 K	80 K	
Locked rotor time		30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
	25%	85.2	88.2	86.4	
Efficiency (%)	50%	85.5	85.9	85.2	
	75%	86.5	85.0	85.2	
	100%	86.5	82.2	83.4	
	25%	0.36	0.42	0.38	
Power Factor	50%	0.61	0.69	0.64	
	75%	0.74	0.80	0.77	
	100%	0.81	0.85	0.83	
		Drive end Non drive en	d Foundation loads		
Bearing type		: 6206 ZZ 6203 ZZ	Max. traction	: 147 lb	
Sealing		: Without Without	Max. compression	: 188 lb	
		Bearing Seal Bearing Sea	al		
Lubrication interv		:			
Lubricant amoun	t				
Lubricant type		: Mobil Polyrex EM			
Notes USABLE @208V	5.95A SF 1.	00 SFA 5.95A			
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro	ed. lotor from the Im and with t weight subjec ocess.	ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after		based on tests with sinusoidal ne tolerances stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v	ed. lotor from the Im and with t weight subjec ocess.	shaft end. olerance of +3dB(A).	power supply, subject to the		
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro	ed. lotor from the Im and with t weight subjec ocess.	shaft end. olerance of +3dB(A).	power supply, subject to the		
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). It to changes after	power supply, subject to the MG-1.	ne 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. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). It to changes after	power supply, subject to the MG-1.	ne 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.	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). It to changes after	power supply, subject to the MG-1.	ne tolerances stipulated in NEMA	



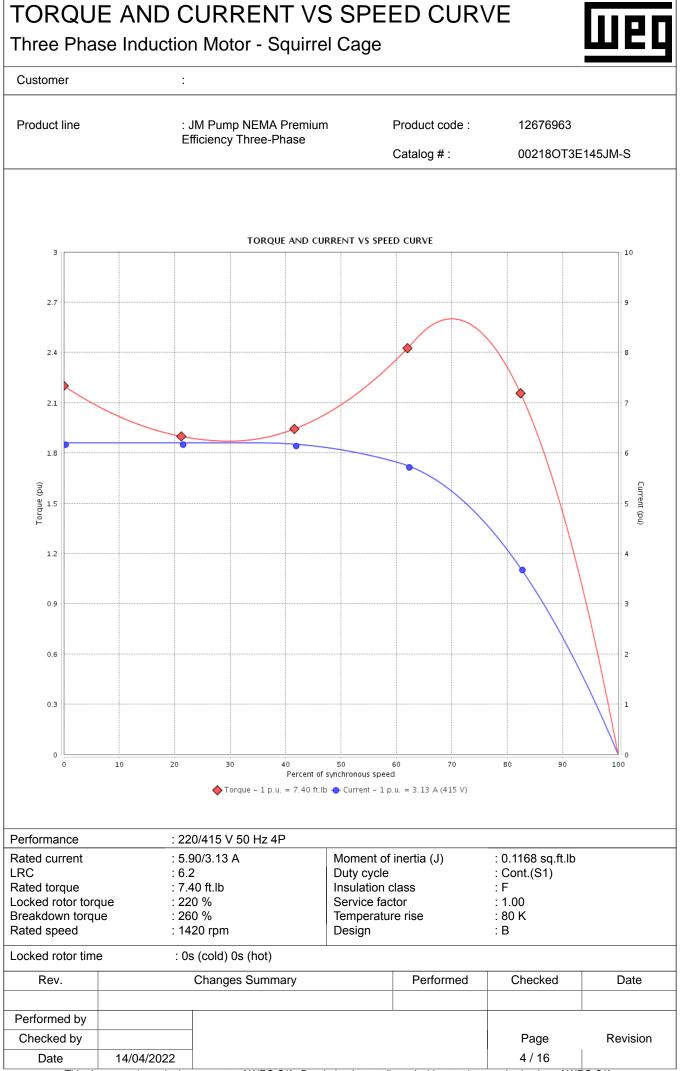
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



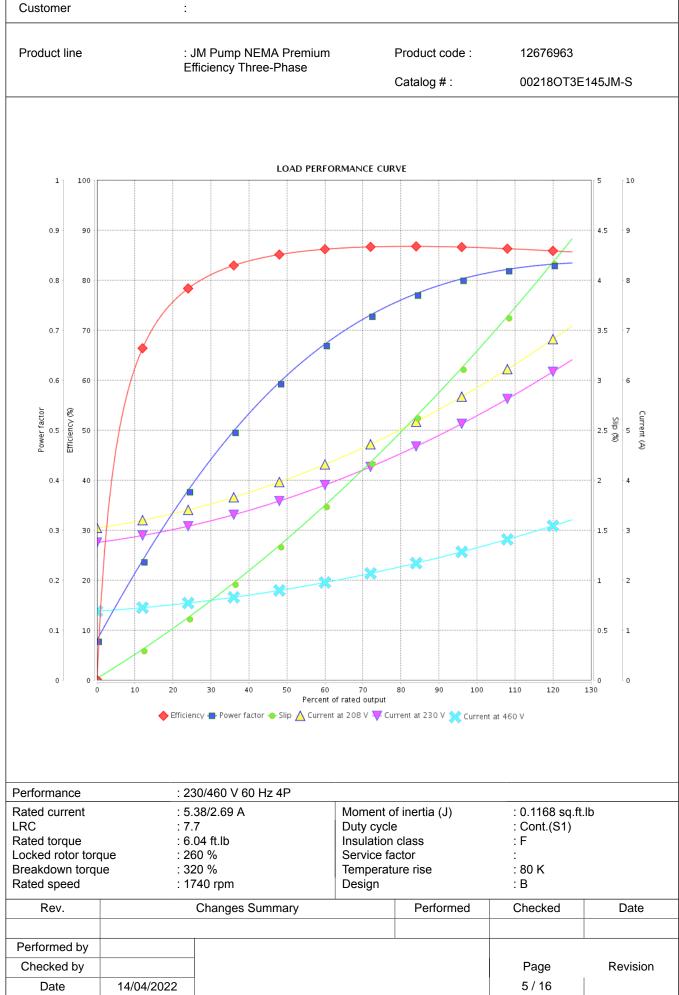
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# LOAD PERFORMANCE CURVE

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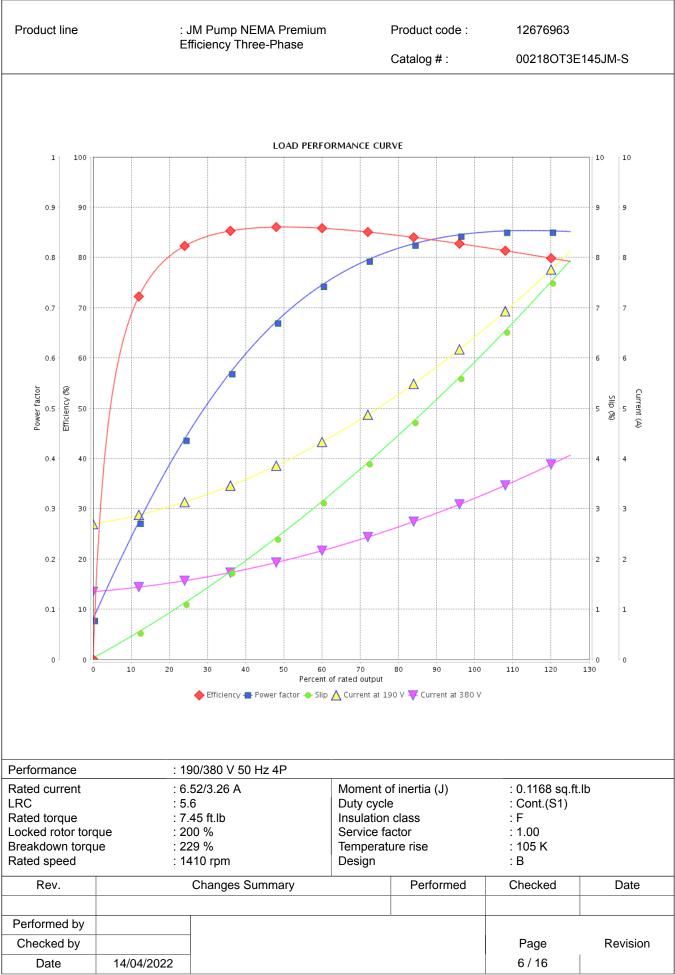
### LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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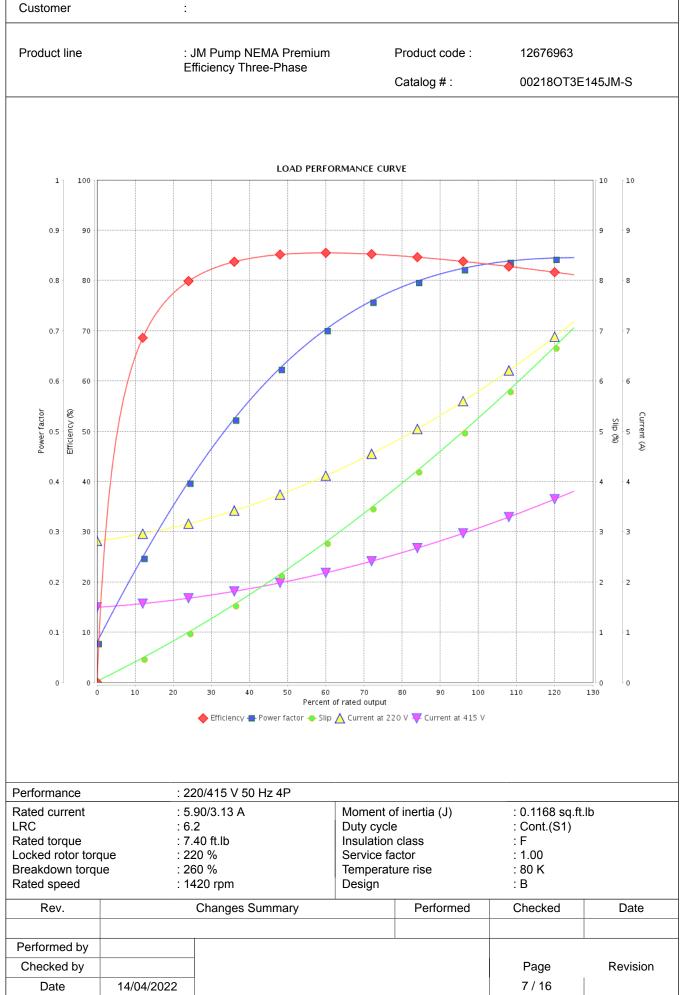
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# LOAD PERFORMANCE CURVE

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### Customer



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## THERMAL LIMIT CURVE

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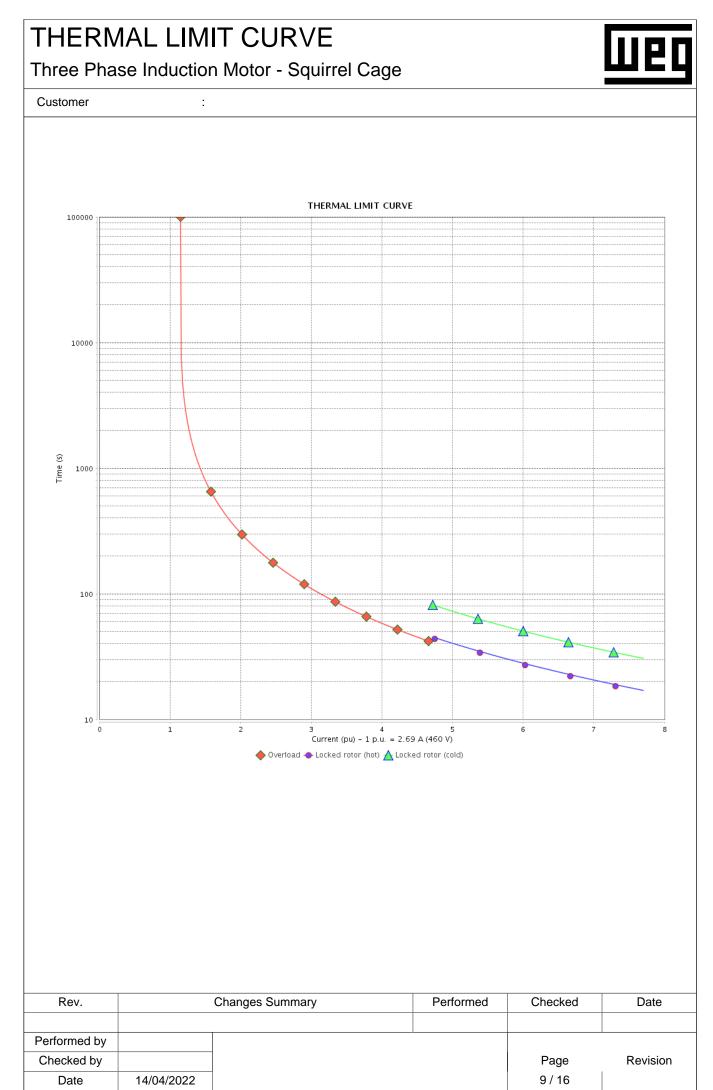


Customer

Product line	: F	JM Pump NEMA Premium		Product code :	12676963	
		,,		Catalog # :	00218OT3E	145JM-S
Performance	. 2	30/460 V 60 Hz 4P				
Performance Rated current		30/460 V 60 Hz 4P 3.38/2.69 A	Momento	f inertia (J)	: 0.1168 sq.ft.l	lh
LRC	: 7	.7	Duty cycle	9	: Cont.(S1)	U
Rated torque		.04 ft.lb	Insulation		: F	
Locked rotor toro Breakdown torqu		60 % 20 %	Service fa Temperate		: 80 K	
Rated speed		740 rpm	Design		: B	
Heating constant	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					I	
Checked by					Page	Revision
Date	14/04/2022	1			8 / 16	

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# THERMAL LIMIT CURVE

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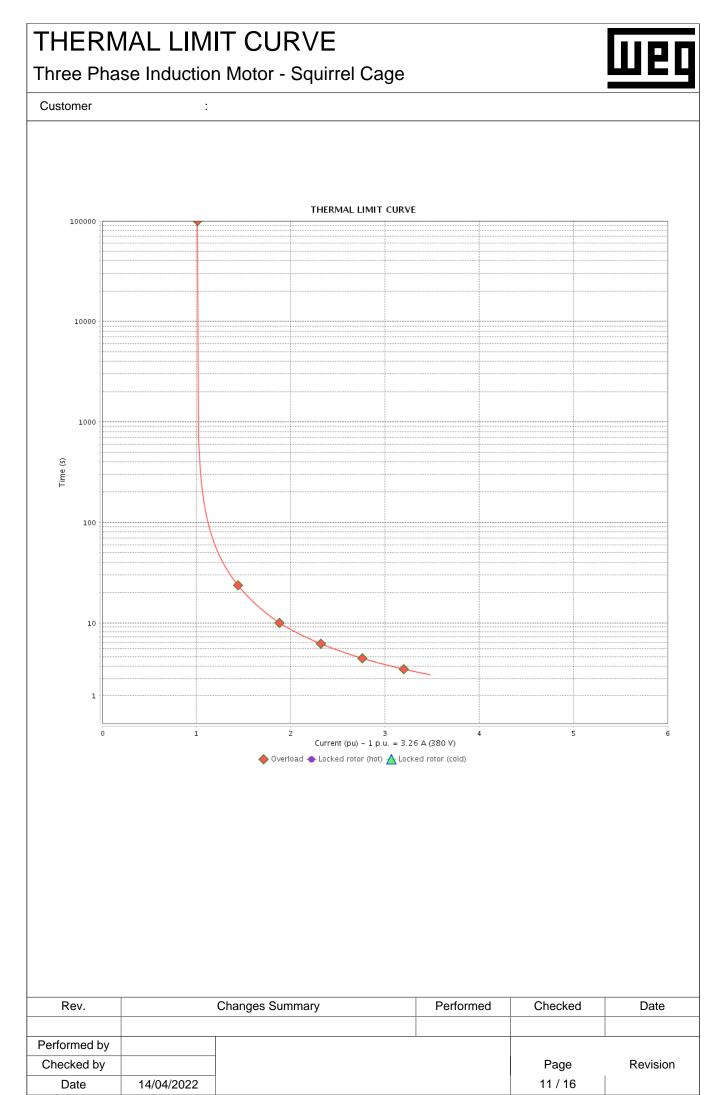


Customer

Product line	: E	JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676963	
				Catalog # :	00218OT3E	145JM-S
<b>D</b> (						
Performance Rated current		90/380 V 50 Hz 4P .52/3.26 A	Momonto	f inertia (J)	: 0.1168 sq.ft.l	ь
LRC	: 5		Duty cycle	e	: Cont.(S1)	b
Rated torque		.45 ft.lb	Insulation	class	: F	
Locked rotor toro Breakdown torqu		00 % 29 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		410 rpm	Design		: B	
Heating constan	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Date	14/04/2022				10 / 16	

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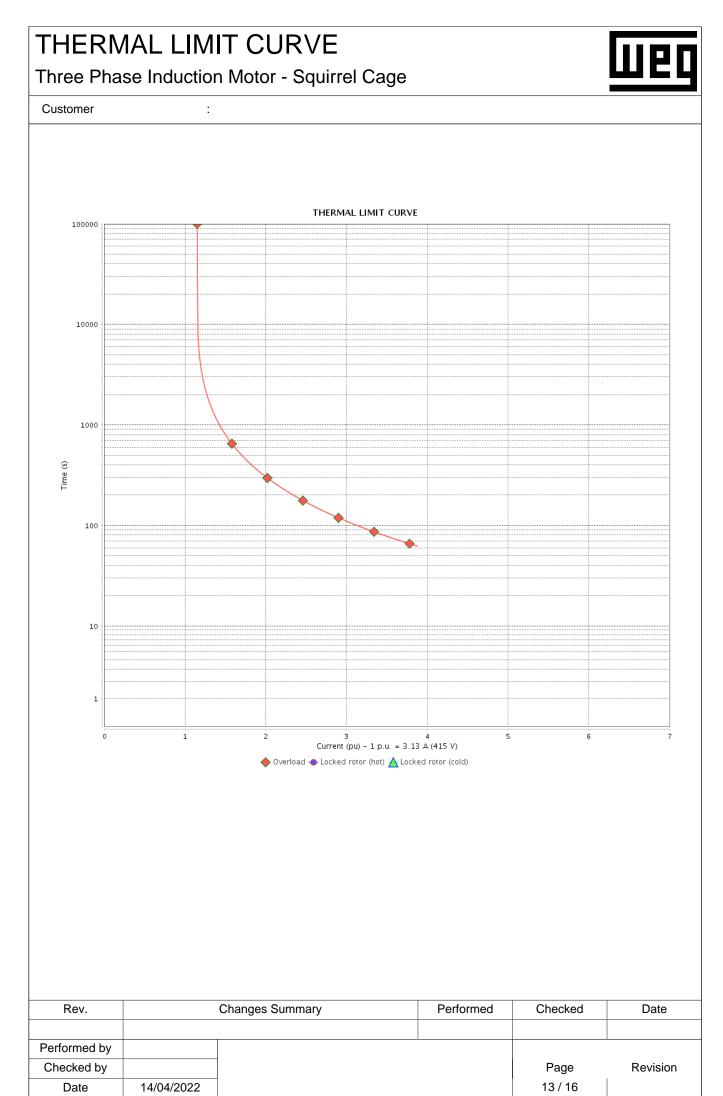
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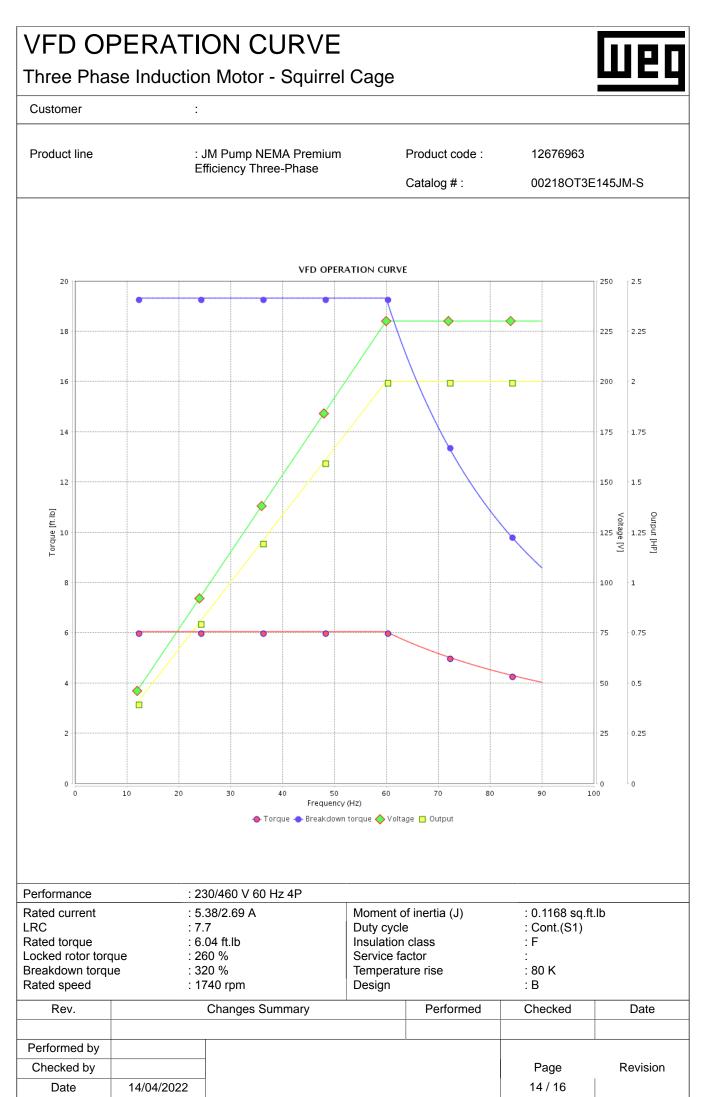


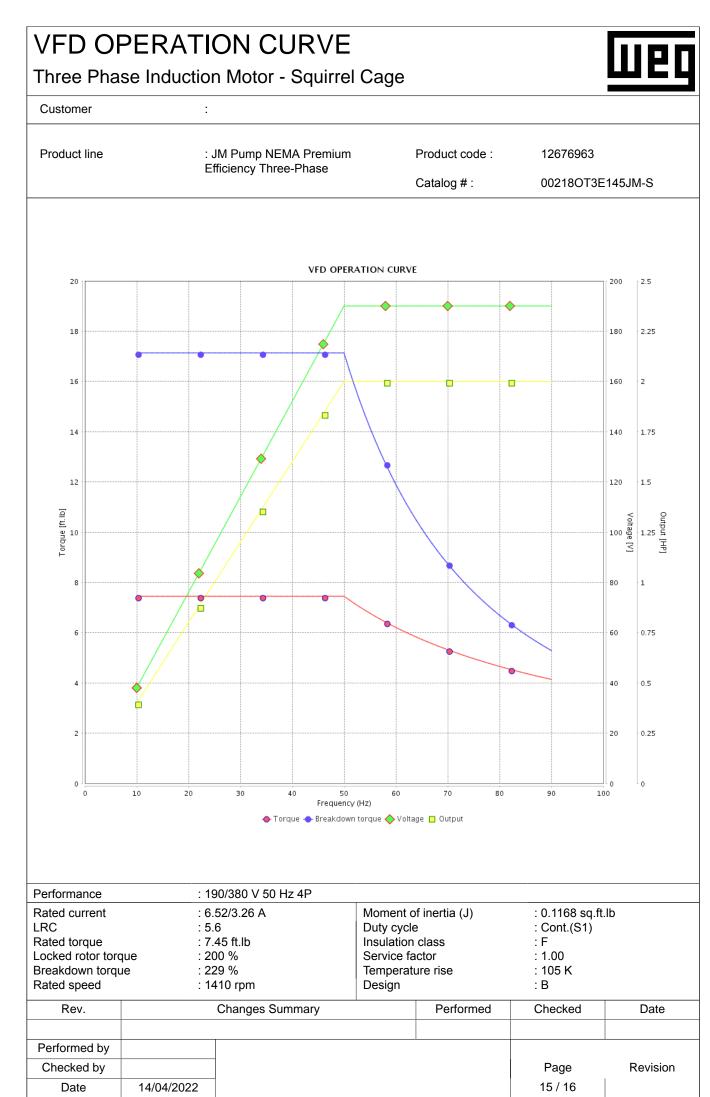
Customer

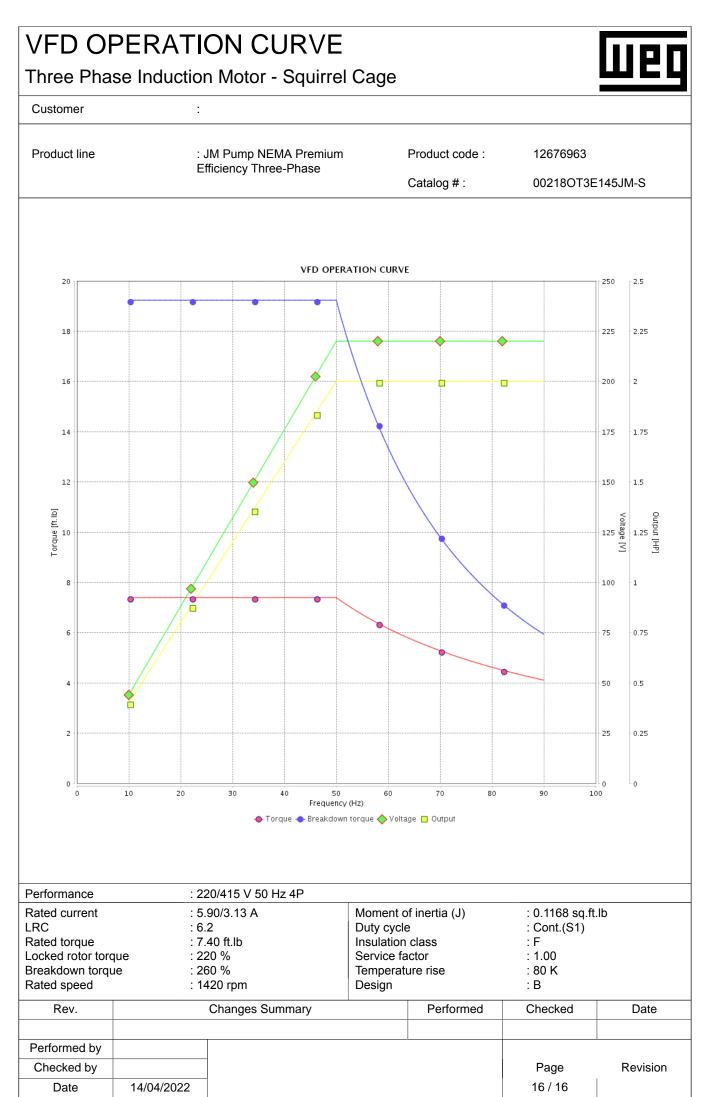
Product line		JM Pump NEMA Premium fficiency Three-Phase		Product code :	12676963	
	_			Catalog # :	00218OT3E	145JM-S
Performance		20/415 V 50 Hz 4P .90/3.13 A	Mamonta	finantia (1)	· 0 1169 og ft l	h
Rated current LRC	. 5 : 6		Duty cycle	f inertia (J) e	: 0.1168 sq.ft.l : Cont.(S1)	D
Rated torque		.40 ft.lb	Insulation	class	: F	
Locked rotor toro Breakdown torqu		20 % 60 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		420 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				12 / 16	

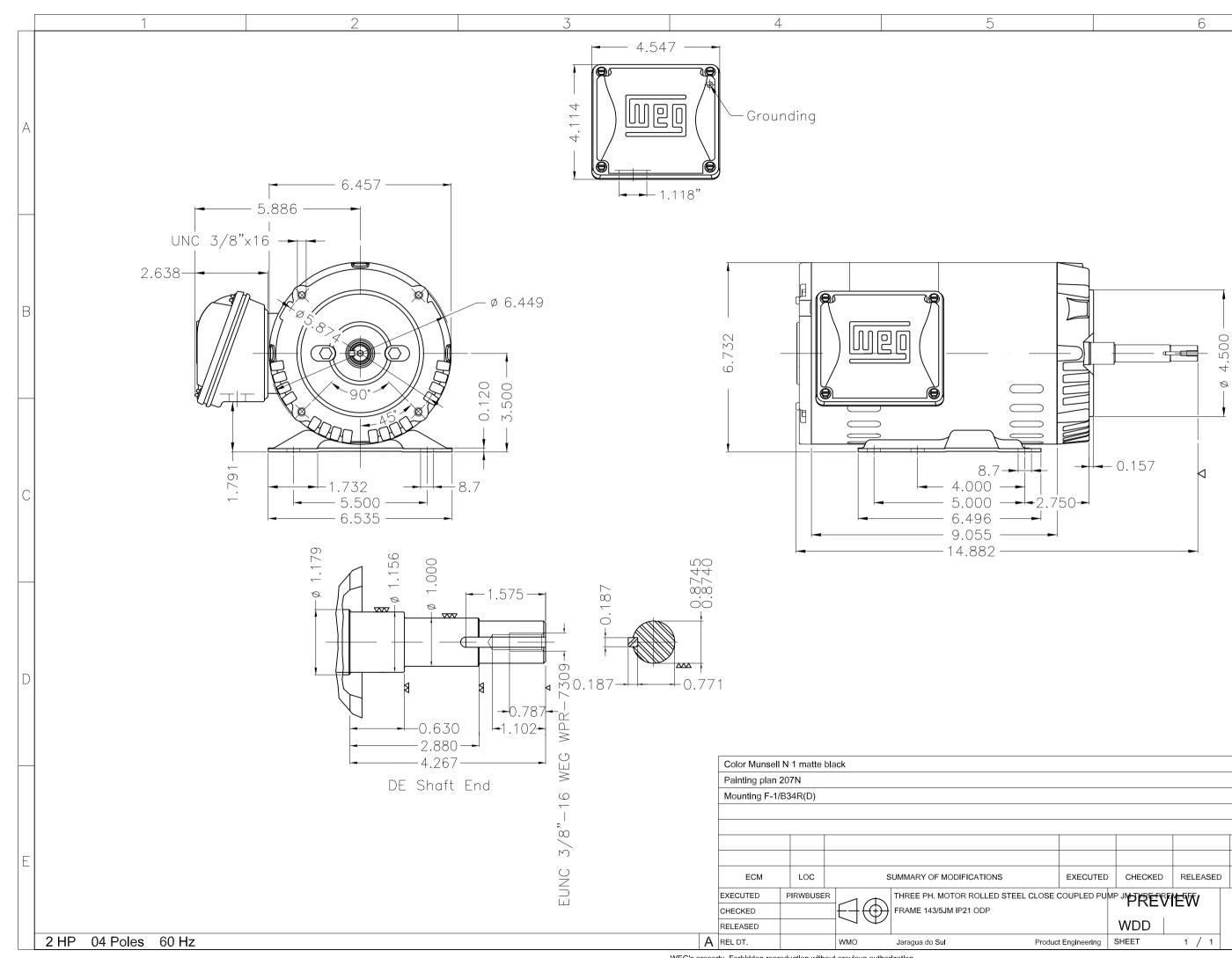
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