# DATA SHEET

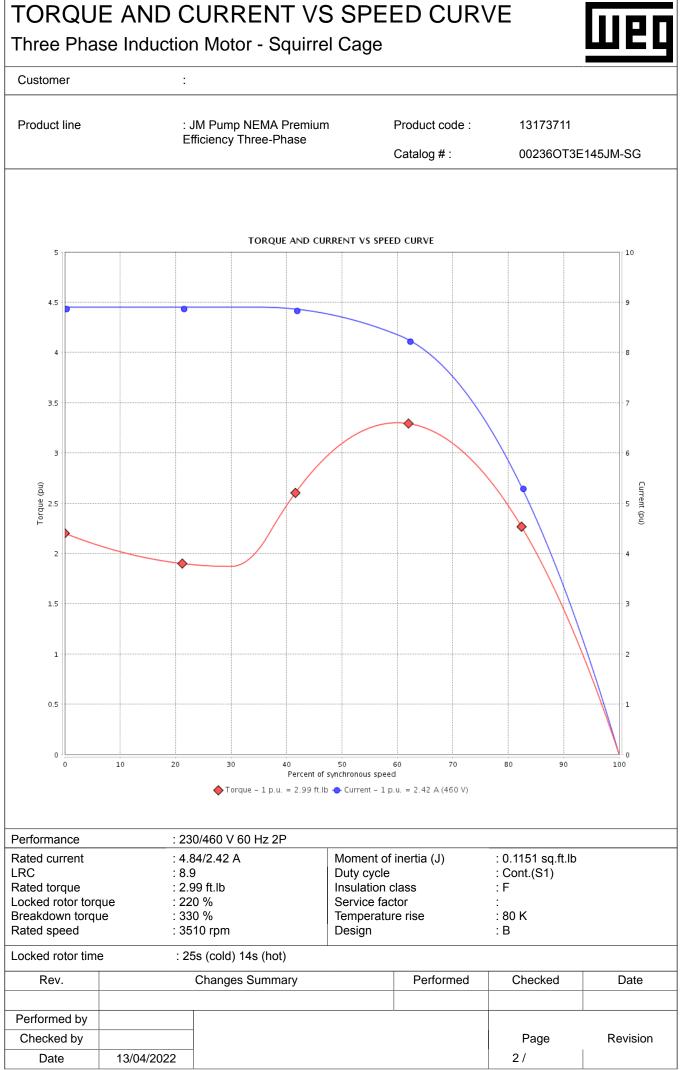
Three Phase Induction Motor - Squirrel Cage

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#### Customer

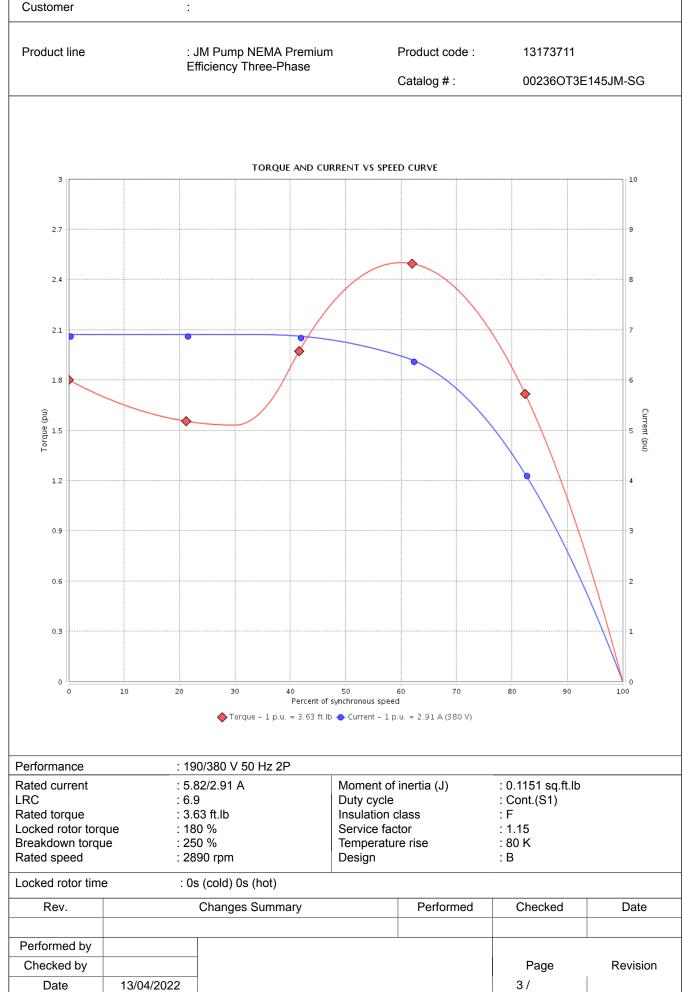
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13173711				
			Catalog # :	00236OT3E145JM-SG				
Frame		: 143/5JM	Cooling method	: IC01 - ODP				
Insulation class		: F	Mounting	: F-1				
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)				
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line				
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 38.8 lb				
Design		: B	Moment of inertia (J)	: 0.1151 sq.ft.lb				
Dutput [HP]		2	2	2				
Poles		2	2	2				
Frequency [Hz]		60	50	50				
Rated voltage [V]		230/460	190/380	220/415				
Rated current [A]		4.84/2.42	5.82/2.91	5.26/2.79				
. R. Amperes [A]		43.1/21.5	40.2/20.1	40.0/21.2				
.RC [A] lo load current [A	1	8.9x(Code K) 1.83/0.917	6.9x(Code H) 1.81/0.906	7.6x(Code J) 1.84/0.978				
Rated speed [RPN	vij	3510	2890	2900				
Slip [%]	1	2.50	3.67	3.33				
Rated torque [ft.lb		2.99	3.63	3.62				
_ocked rotor torqu		220	180	200				
Breakdown torque	e [%]	330	250	280				
Service factor			1.15	1.15				
Temperature rise		80 K	80 K	80 K				
_ocked rotor time		25s (cold) 14s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)				
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)				
	25%	83.7	85.5	85.4				
Efficiency (%)	50%	84.0	85.0	84.7				
	75%	85.5	85.1	85.4				
	100%	85.5	84.2	84.3				
	25%	0.49	0.56	0.52				
Power Factor	50%	0.77	0.83	0.80				
	75%	0.86	0.90	0.88				
	100%	0.91	0.93	0.92				
		Drive end Non drive en	d Foundation loads					
Bearing type		: 6206 ZZ 6203 ZZ	Max. traction	: 69 lb				
Sealing		: Without Without	Max. compression	: 107 lb				
U		Bearing Seal Bearing Se						
Lubrication interv	val	:						
Lubricant amoun	it	:						
Lubricant type		: Mobil Polyrex EM						
Notes USABLE @208V	5.35A SF 1.0	00 SFA 5.35A						
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with to weight subject ocess.	cel the previous one, which shaft end. olerance of +3dB(A). t to changes after		s based on tests with sinusoidal he 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	ed. lotor from the Im and with to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to t MG-1.	he tolerances stipulated in NEMA				
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	ed. lotor from the Im and with to weight subject ocess.	shaft end. blerance of +3dB(A).	power supply, subject to t					
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 to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to t MG-1.	he 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 to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to t MG-1.	he 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 to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to t MG-1.	he tolerances stipulated in NEMA				



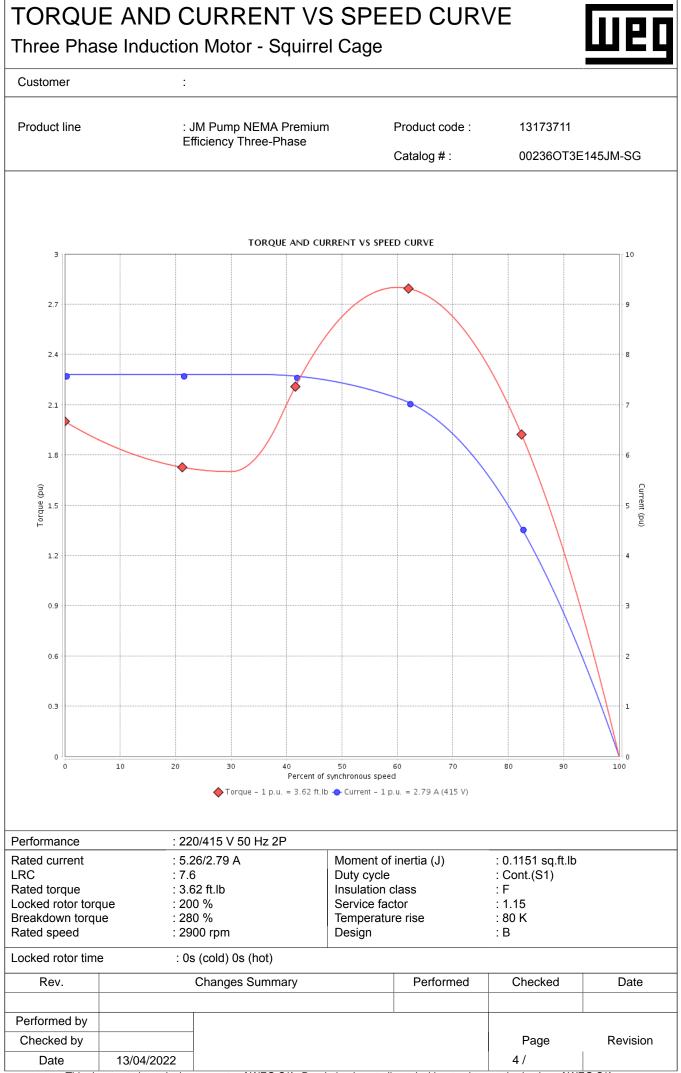
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



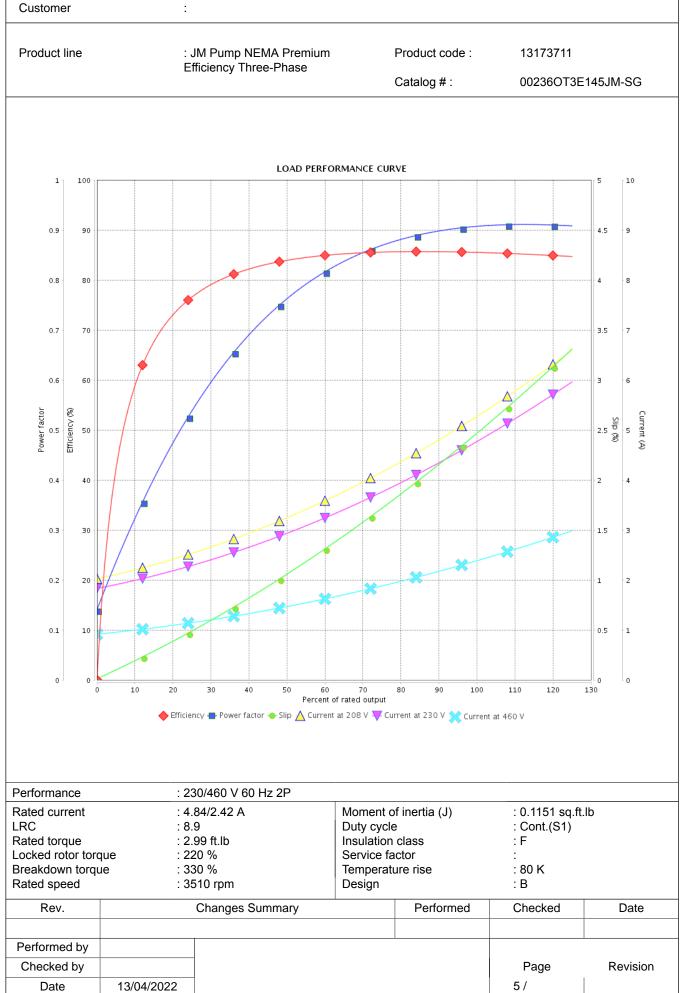
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# LOAD PERFORMANCE CURVE

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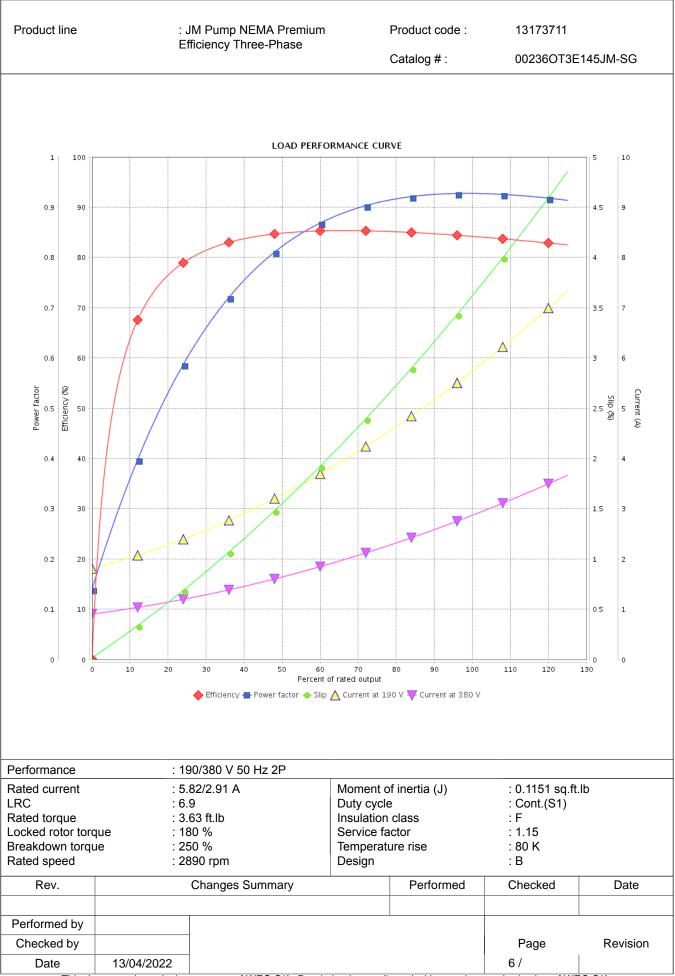
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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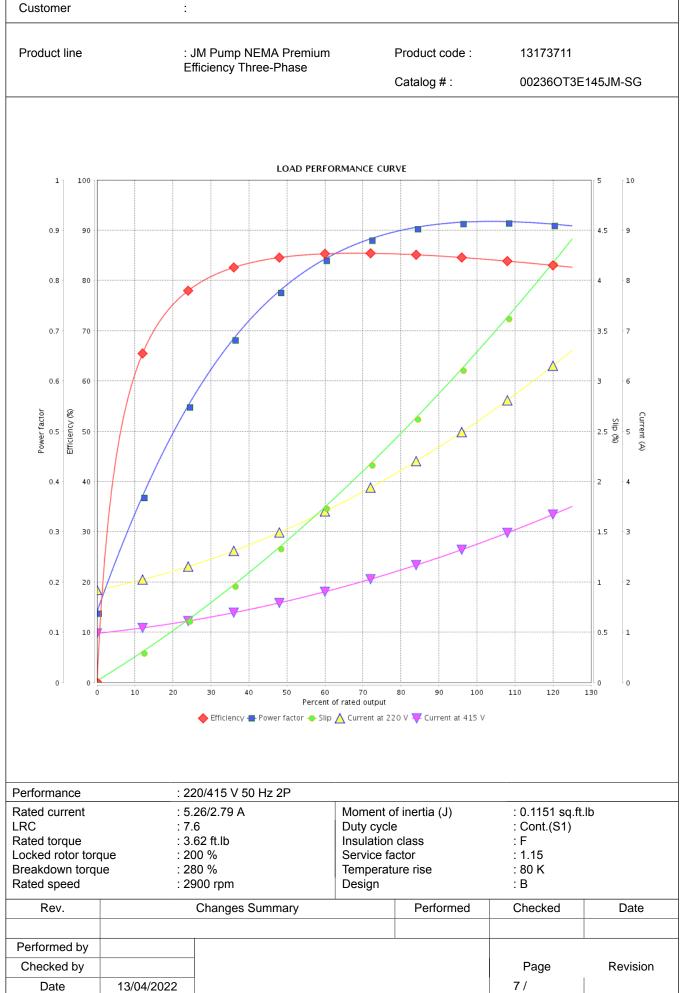
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# LOAD PERFORMANCE CURVE

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# THERMAL LIMIT CURVE

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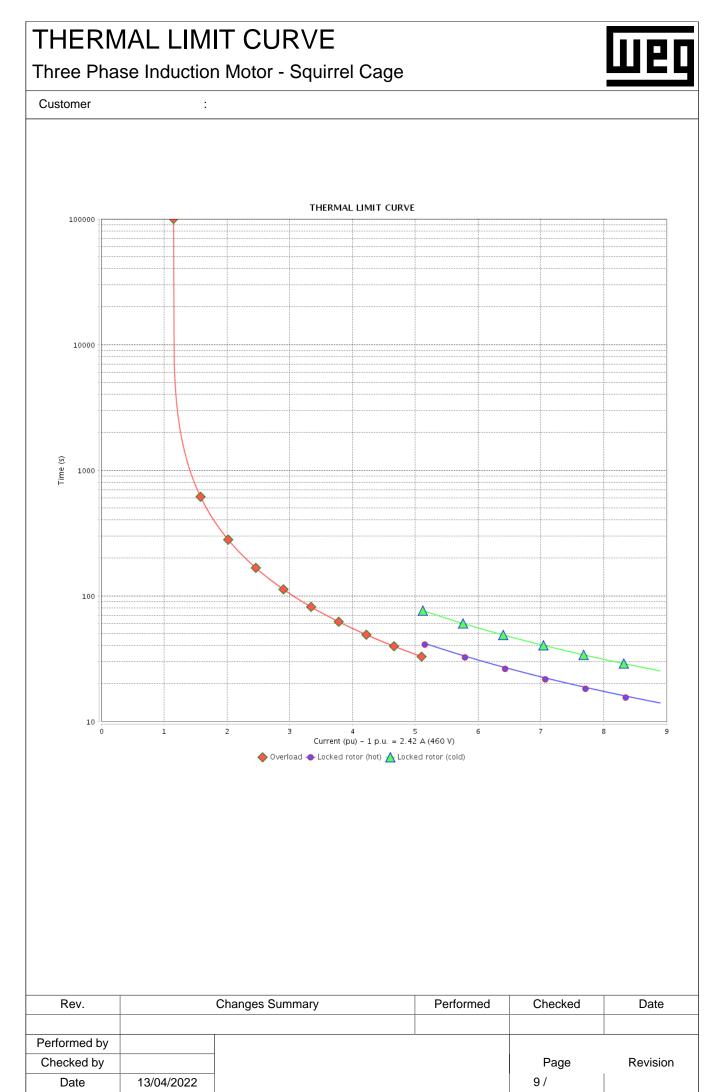
Product line	: . Et	JM Pump NEMA Premium fficiency Three-Phase		Product code : Catalog # :	13173711 00236OT3E145JM-SG			
					002000102			
Performance	: 23	30/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque		84/2.42 A 9 99 ft.lb 20 % 30 % 510 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1151 sq.ft.lb : Cont.(S1) : F : : 80 K : B			
Heating constant	:							
Cooling constant								
Rev.		Changes Summary		Performed	Checked	Date		
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# THERMAL LIMIT CURVE

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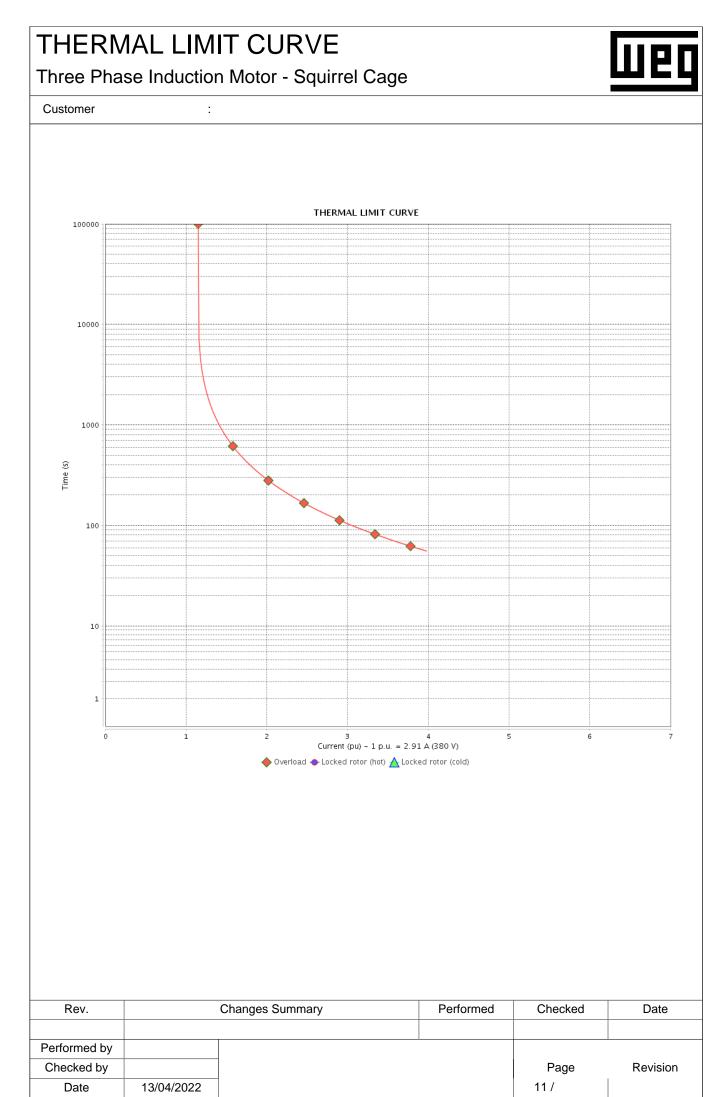
Product line	: C Ei	JM Pump NEMA Premium fficiency Three-Phase		Product code :	13173711 00236OT3E145JM-SG			
				Catalog # :	00236013E	145JM-SG		
Performance		90/380 V 50 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque		82/2.91 A 9 63 ft.lb 80 % 50 % 890 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ictor	: 0.1151 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Heating constant								
Cooling constant								
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# THERMAL LIMIT CURVE

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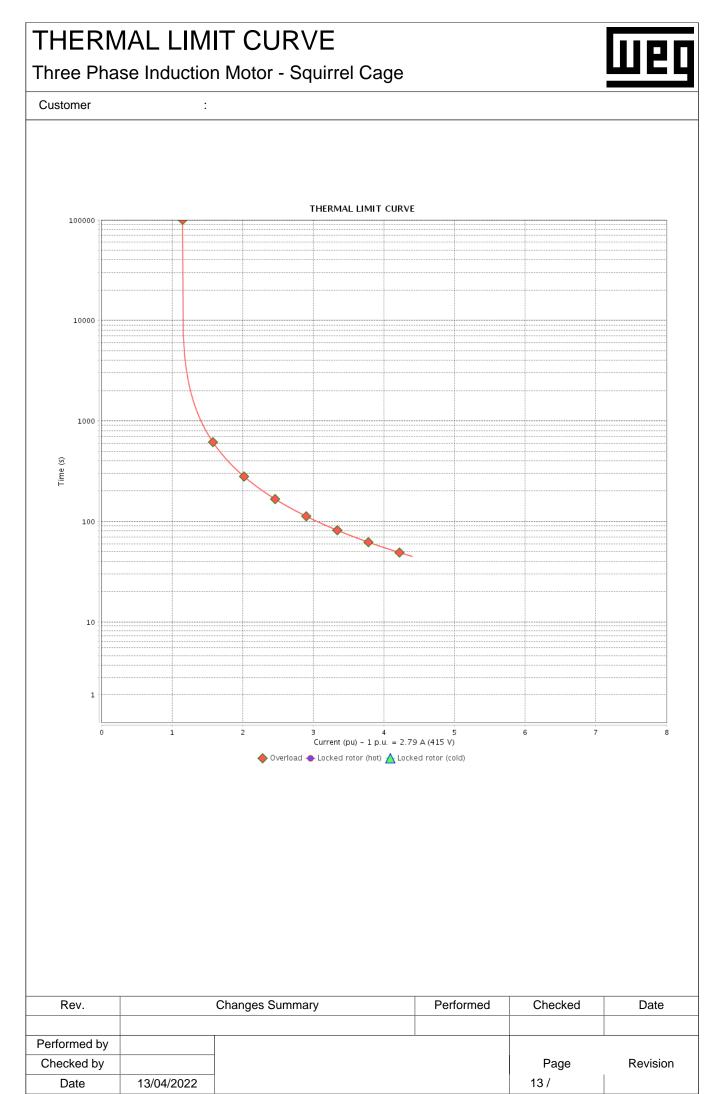


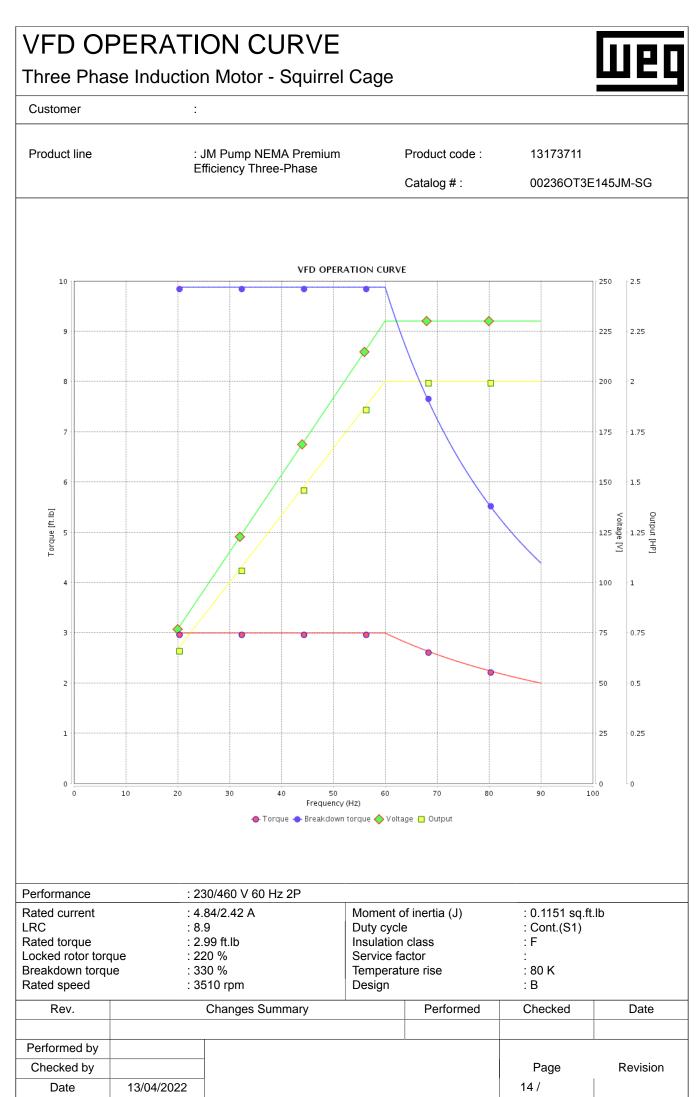
Customer

Product line	:.	JM Pump NEMA Premium		Product code :	13173711			
	E	fficiency Three-Phase		Catalog # :	00236OT3E	145JM-SG		
Performance	: 22	20/415 V 50 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque		26/2.79 A .6 .62 ft.lb 00 % 80 % 900 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1151 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Heating constant								
Cooling constant								
Rev.		Changes Summary		Performed	Checked	Date		
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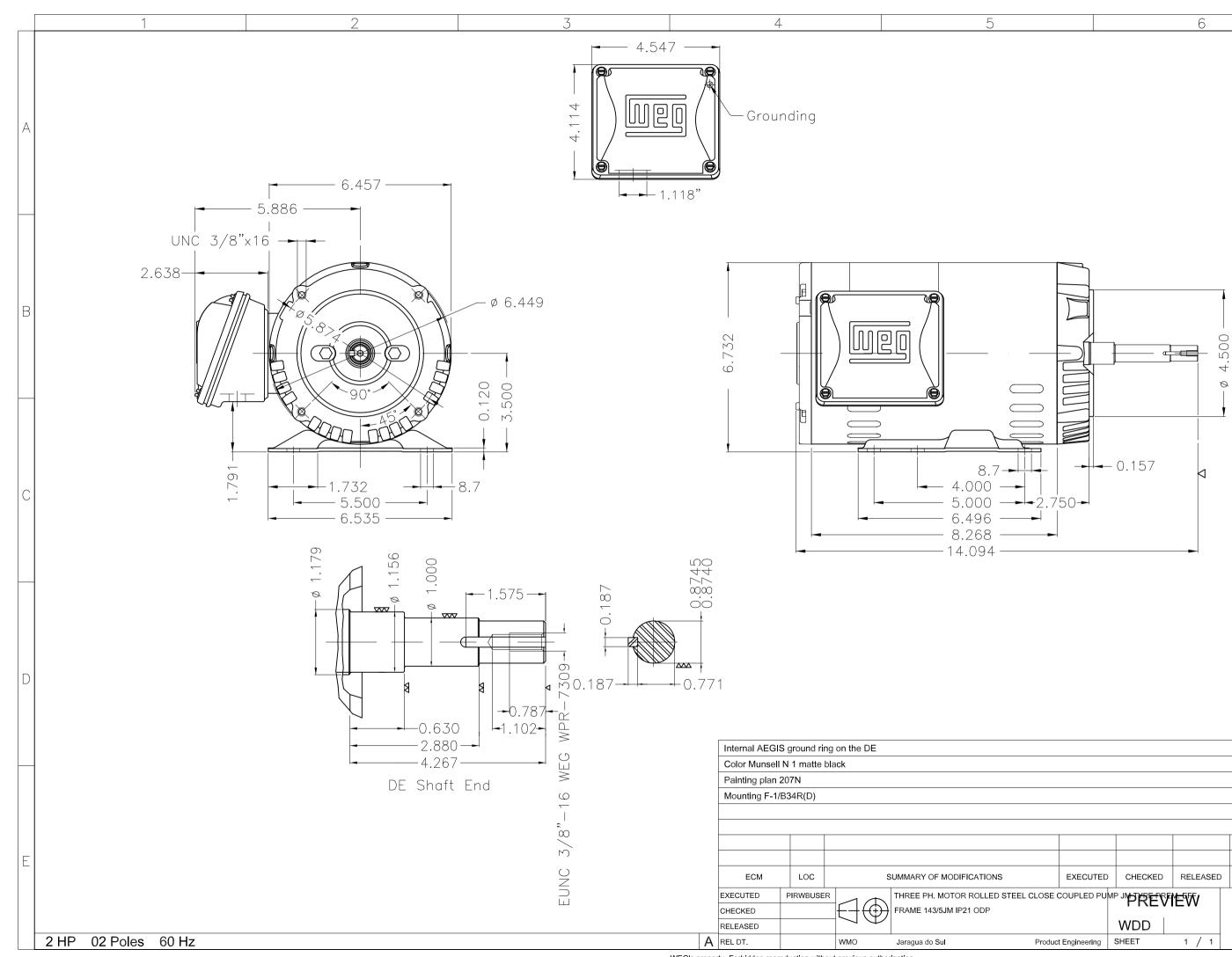
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						Dimensions in inches
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
LED STEEL CLOSE	COUPLED PU	<sup>MP JI</sup> PREV	MEWV	<b>.</b>		
F		WDD		ШĿ		A3
	1					XME

COLOUS 1379 COLOUS LISTED Energy Verified	C€		 kw 1.5	V 230/460 A 4,84/2.42	-		PF U.91 DDM 9540		50Hz 190-220/380-415V SF1.15	te on VPWM 1000:1 VT. 3:1	MOBIL POLYREX EM	T4 T5 T6	T1-BLU	DULL TS TS-BLK T6-GRY	LI L I T9-BRK RED	IS TO REVERSE THE ROTATION HOW HOW INCLUDED	NING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.	AVERTISSEMENT: Le moteur doit ête mis à la terre <b>de la terre doit et la terre doit et la terre doit</b> odes électriques locaux et nationaux afin d'éviter tout e. Déconnectez l'allimentation avant l'entretien de la machine.
LIED REMIUM	MADE IN MÉXICO MAT: 13173711 CC029A W01.TO0IC0X0N	MODEL 002360T3E145JM-SG 060CT2021 B/N:	· .	DUTY CONT.	CL F AT 80K	AMB 40°C DES B	ENCL ODP CODE K	USABLE @ 208V 5.35A N	2.0HP 5	inverter duty motor For 8	DE 6206-ZZ ODE 6203-ZZ	T4 T5 T6	<b>P</b> '			INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION	WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.	AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codre électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectes l'alimentation avant l'entreflen de la machine.