# DATA SHEET

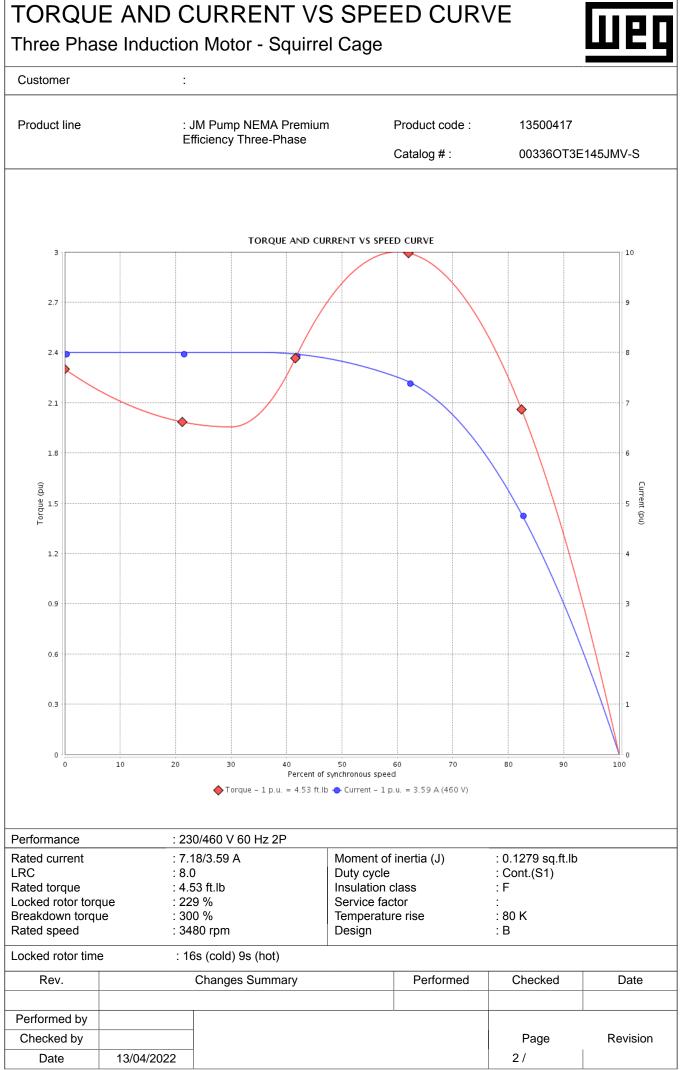
Three Phase Induction Motor - Squirrel Cage

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#### Customer

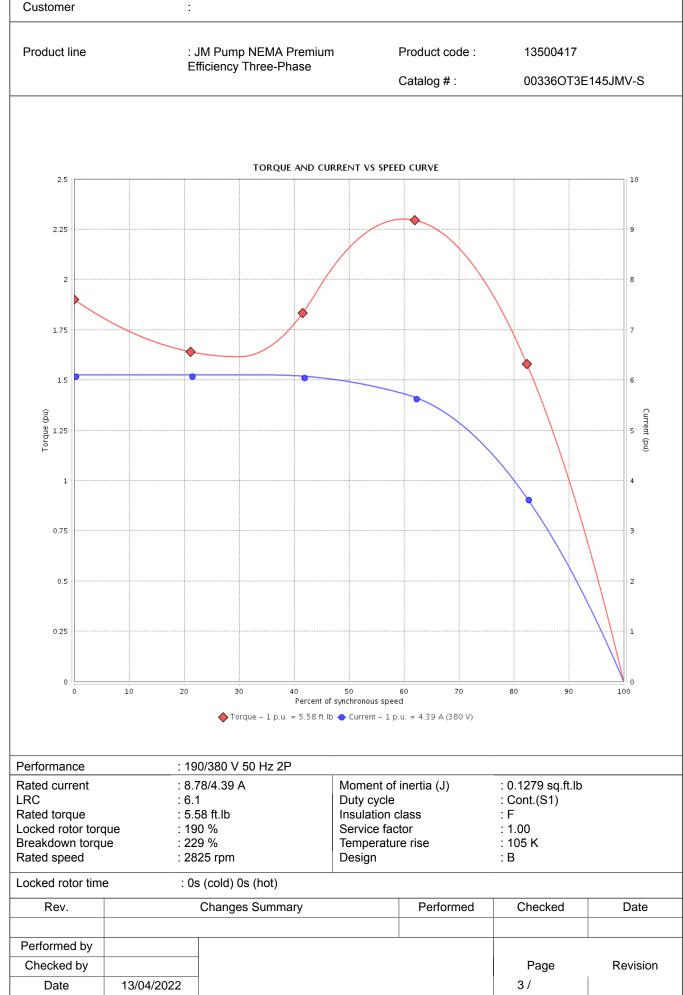
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	F	Product code :	13500417	
		LINGENCY THEE-FIIdSE	(	Catalog # :	00336OT3E	E145JMV-S
Frame		: 143/5JM	Cooling	method	: IC01 - OD	Р
Insulation class		:F	Mounting		: W-6	
Duty cycle		: Cont.(S1)	Rotation		: Both (CW	and CCW)
Ambient tempera	ature	: -20°C to +40°C	Starting	method	: Direct On	Line
Altitude		: 1000 m.a.s.l.	Approx.		: 40.9 lb	
Design		: B		of inertia (J)	: 0.1279 sq	.ft.lb
Output [HP]		3		3		3
Poles		2		2		2
Frequency [Hz]		60		50		50
Rated voltage [V]		230/460		190/380	22	20/415
Rated current [A]		7.18/3.59		8.78/4.39	7.8	83/4.15
L. R. Amperes [A]		57.4/28.7		53.6/26.8		3.2/28.2
LRC [A]		8.0x(Code J)	6	.1x(Code G)		(Code H)
No load current [A]	1	2.60/1.30		2.60/1.30		71/1.44
Rated speed [RPN	-	3480		2825		2840
Slip [%]	<u> </u>	3.33		5.83		5.33
Rated torque [ft.lb]		4.53		5.58		5.55
Locked rotor torqu		229		190		220
Breakdown torque		300		229		250
Service factor	[,,]			1.00		1.00
Temperature rise		80 K		105 K		105 K
Locked rotor time		16s (cold) 9s (hot)	00	(cold) 0s (hot)		ld) 0s (hot)
Noise level <sup>2</sup>		62.0 dB(A)		60.0 dB(A)		.0 dB(A)
	25%	83.7		89.4		88.4
	25% 50%	83.7		89.4		86.5
Efficiency (%)	50% 75%	84.0		85.0		85.6
	100%	85.5		85.0		83.2
	25%					
		0.50		0.56		0.51
Power Factor	50%	0.76		0.83		0.79
	75%	0.86		0.90		0.88
	100%	0.90		0.93		0.92
		Drive end Non drive en	d Foundatio	on loads		
Bearing type		: 6206 ZZ 6203 ZZ	Max. trac		: 100 lb	
Sealing		: Without Without	Max. com	npression	: 141 lb	
		Bearing Seal Bearing Sea	al			
Lubrication interv		:				
Lubricant amoun	t	:				
Lubricant type		: Mobil Polyrex EM				
Notes USABLE @208V	7.94A SF 1.	00 SFA 7.94A				
must be eliminate (1) Looking the m (2) Measured at 1	d. otor from the m and with t veight subjec ocess.	ncel the previous one, which e shaft end. olerance of +3dB(A). ct to changes after			based on tests w ne tolerances stipu	
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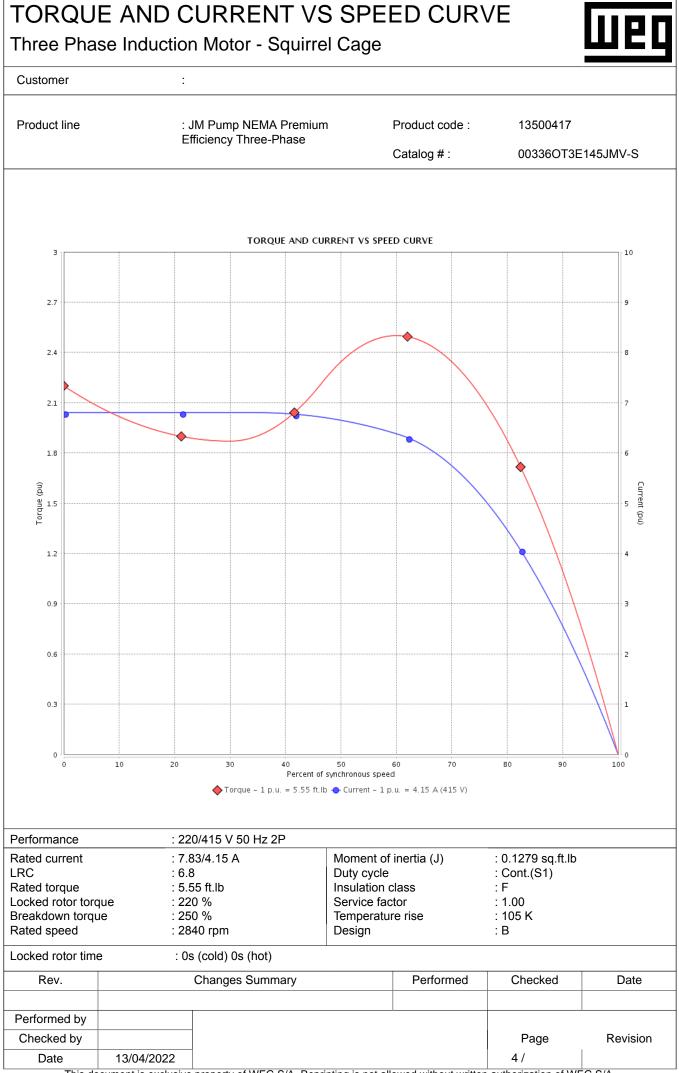
## TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



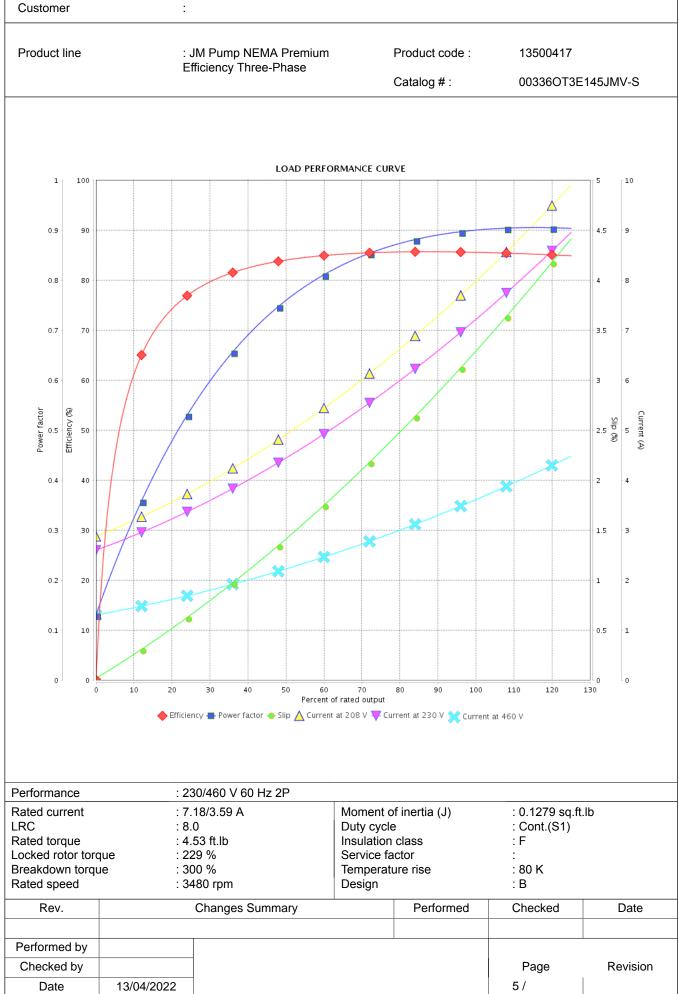
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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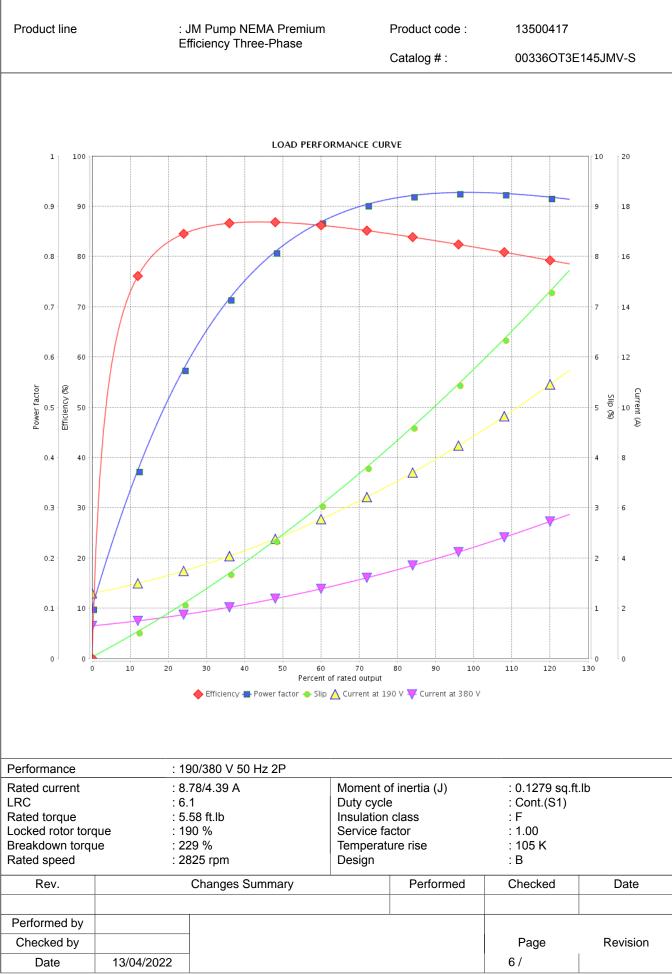
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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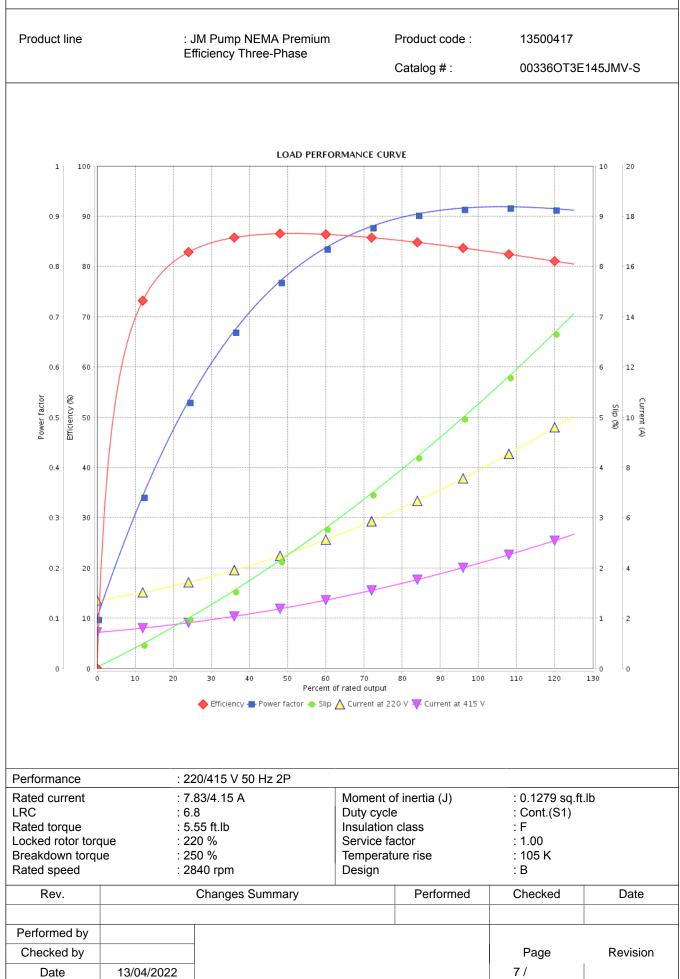


# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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### Customer



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# THERMAL LIMIT CURVE

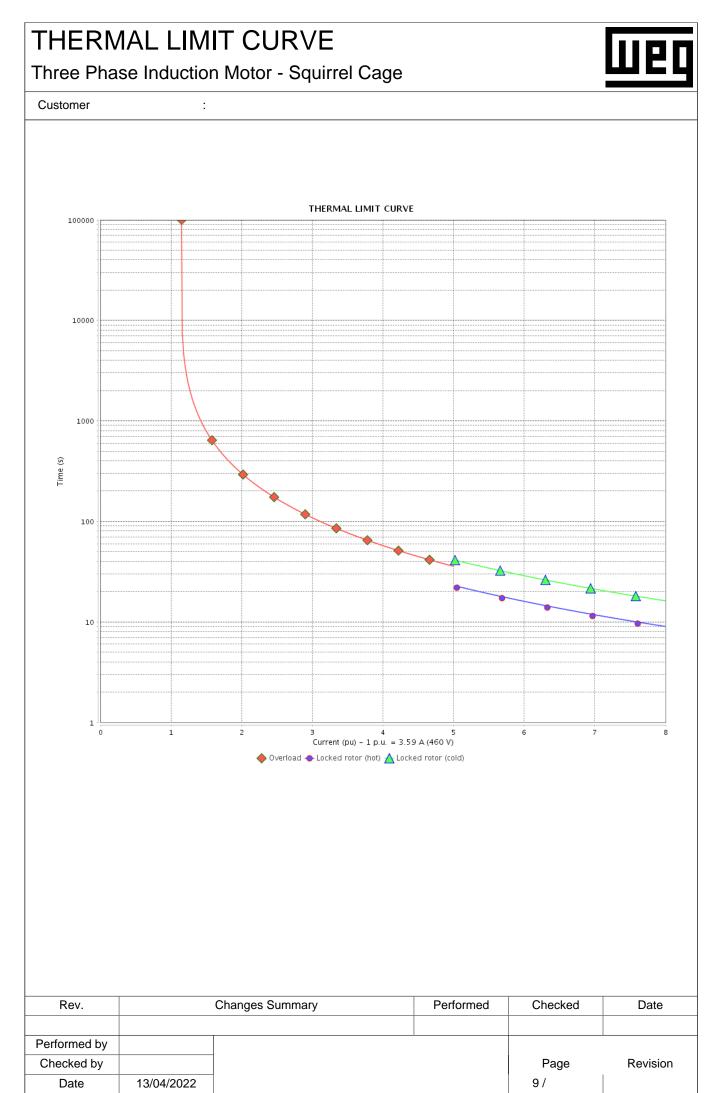
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: . E1	JM Pump NEMA Premium fficiency Three-Phase		Product code :	13500417	
	_			Catalog # :	00336OT3E	145JMV-S
Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 8. : 4. que : 22 ue : 30	18/3.59 A	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1279 sq.ft : Cont.(S1) : F : : 80 K : B	lb
Heating constan	t					
Cooling constant						
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Date	13/04/2022				8 /	



# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

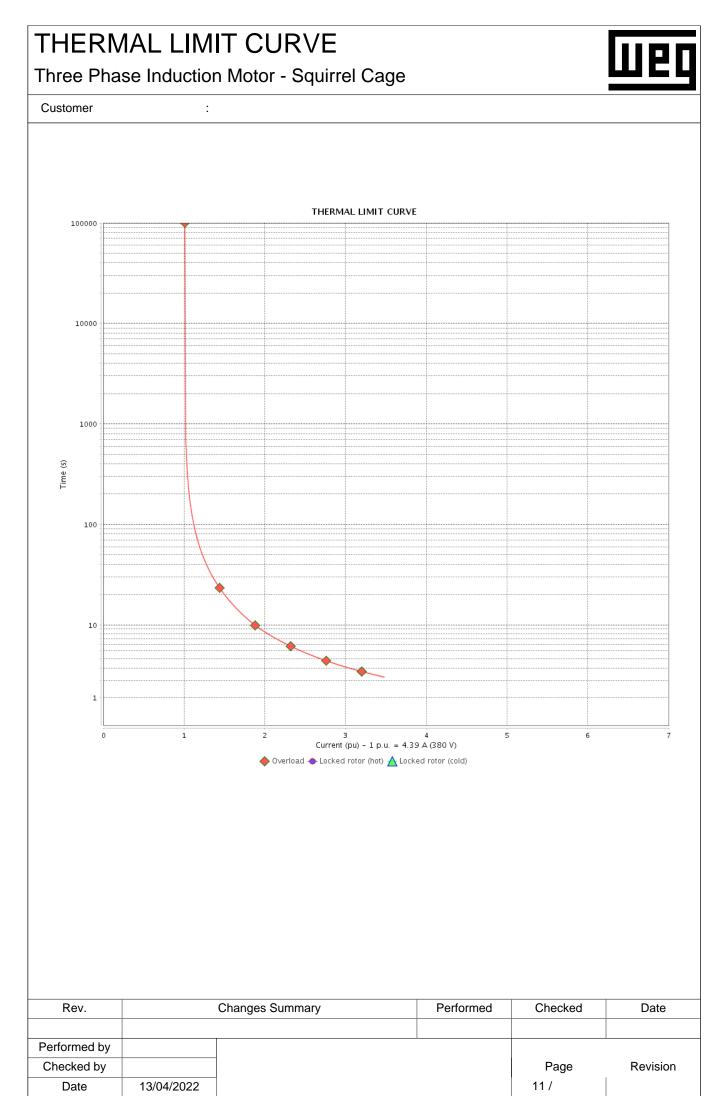
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Customer

Product line		JM Pump NEMA Premium fficiency Three-Phase		Product code :	13500417	
				Catalog # :	00336OT3E	145JMV-S
Performance	: 19	90/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8. : 6. : 5. gue : 19 Je : 22	78/4.39 A	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1279 sq.ft : Cont.(S1) : F : 1.00 : 105 K : B	lb
Heating constan						
Cooling constant						
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

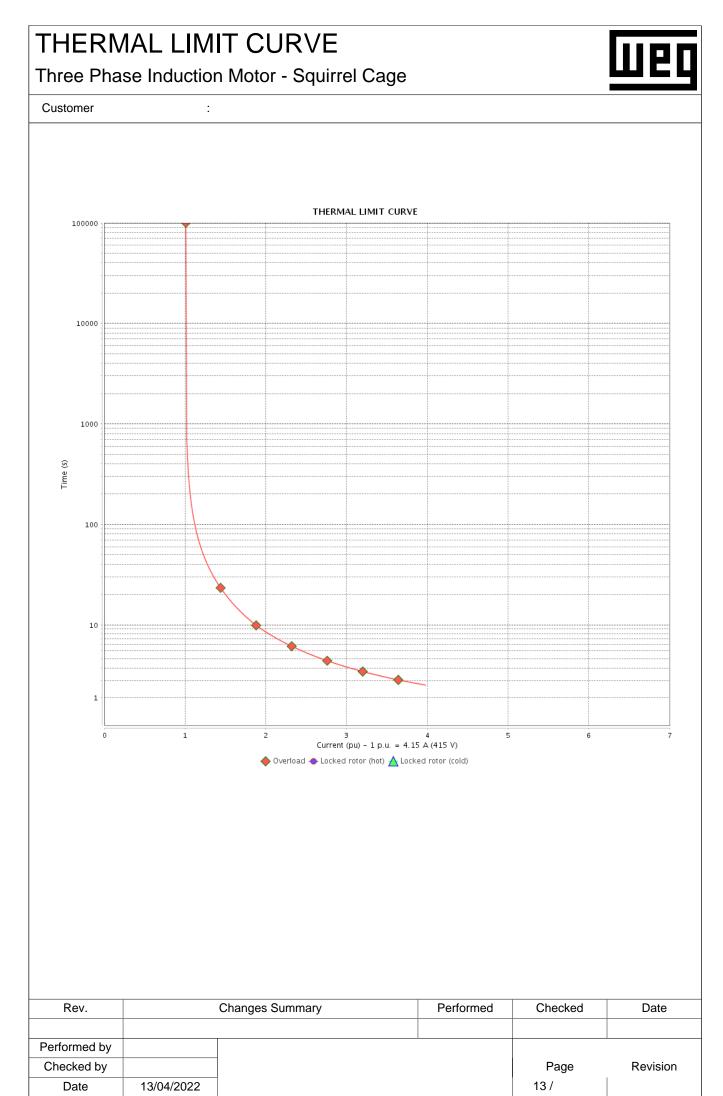
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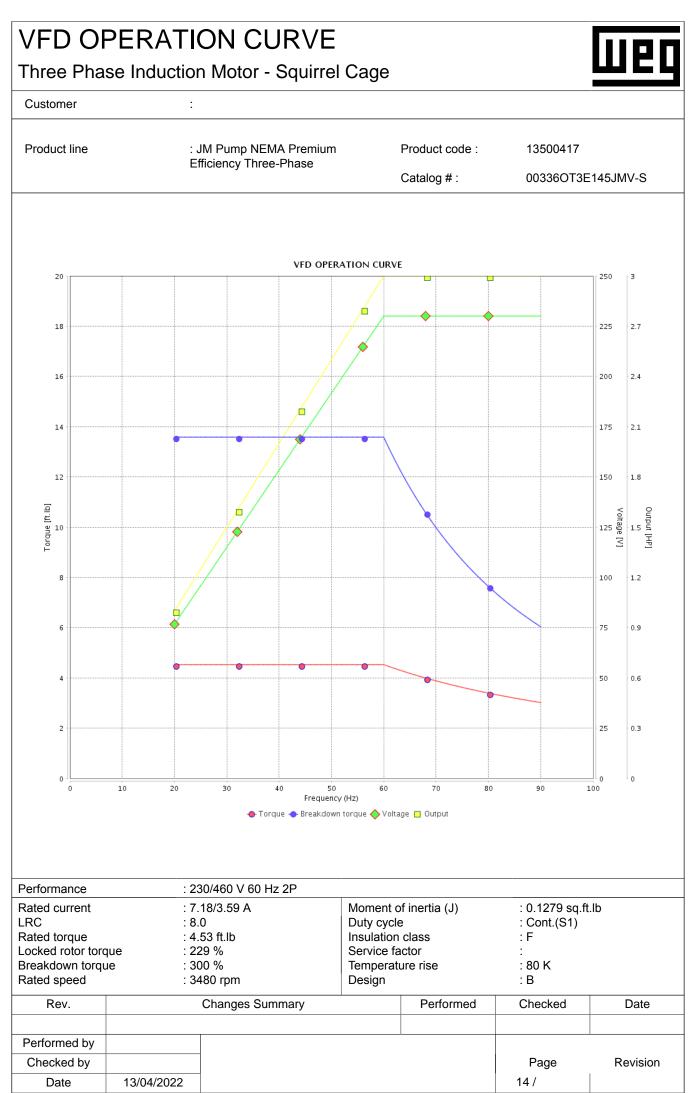


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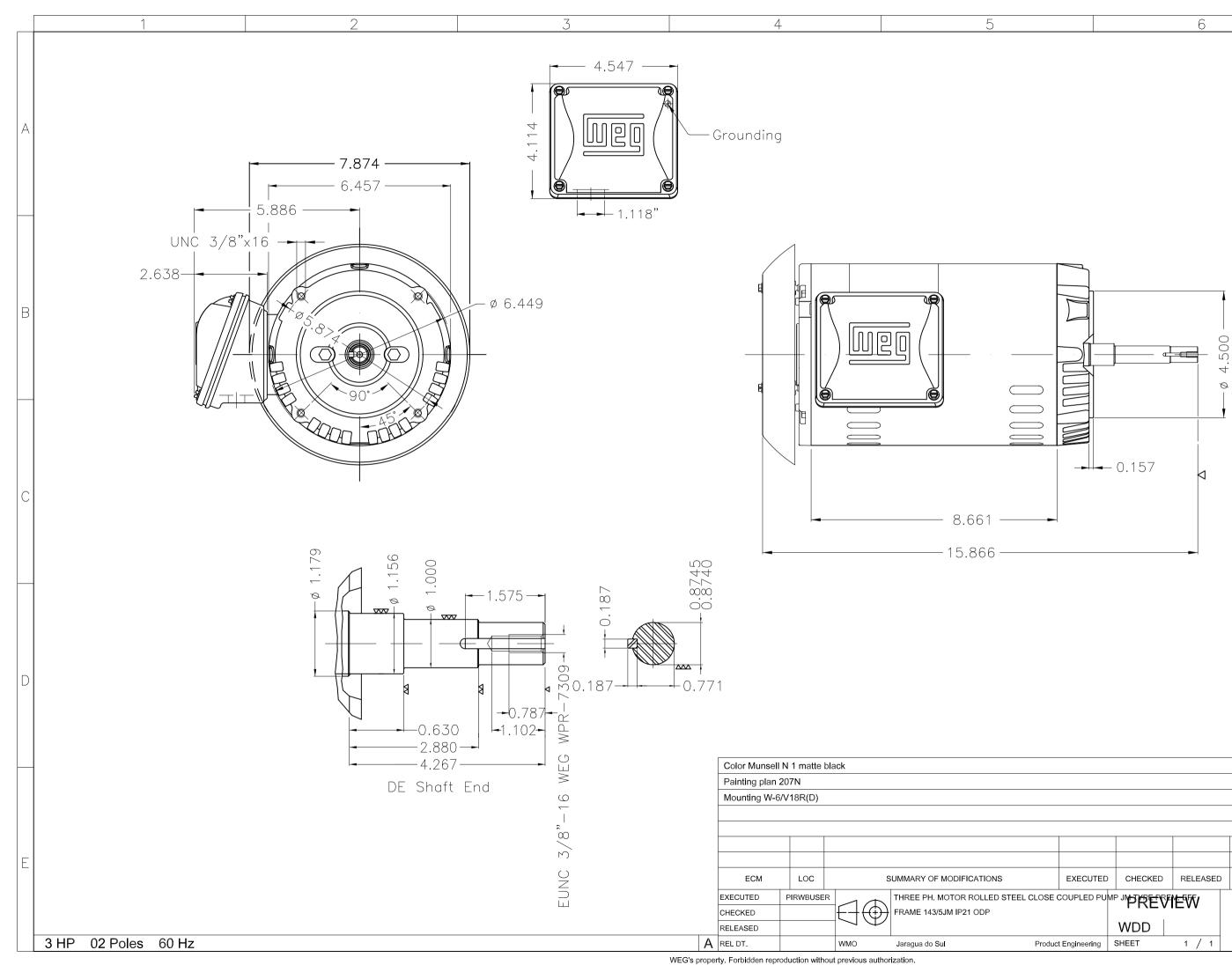
Product line	: . E1	JM Pump NEMA Premium fficiency Three-Phase		Product code :	13500417	
				Catalog # :	00336OT3E	145JMV-S
Performance	: 22	20/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 6. : 5. que : 22 Je : 28 : 28	83/4.15 A	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1279 sq.ft : Cont.(S1) : F : 1.00 : 105 K : B	lb
Heating constant						
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date
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6						Dimensions in inches
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
LED STEEL CLOSE ( P	COUPLED PUN	WDD	MEWV	Ше	Ī	A3
Produc	t Engineering	SHEET	1 / 1			XME



	20	11 0.0			
FR 143/5JM		kW 2.2			
DUTY CONT.		V 230	230/460		
ALT 1000 m.a.s.l		-	7.18/3.59		
INS CL F AT 80K		-	8.26/4.13		
AMB 40°C	DES B	SF 1.15			
ENCL ODP	CODE J	DEM 2400			
USABLE @ 208V 7.94A	tA	- <b></b>	5.5%		
ALTERNATE RATING:	3.0HP	50Hz	190-220/380-415V	15V	SF1.00
8.78-7.56/4.39-4.01A	A	2825RPM	EFF 81.8%	Ē	IEC 60034-1
Inverter du	ty motor For	BOHz use o	Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 3:1 CT	1 VT, 3:1	ст
DE 6206-ZZ OC	ODE 6203-ZZ	MOBIL	MOBIL POLYREX EM		
T4 T5	5 _T6	T4	T5 T6		
	•	- E	•	T1-BLU	T2-WHT
WAT 18		AT E	LT8 LT9	T3-ORG	T4-YEL
		ן קר.	10 I	T5-BLK	T6-GRY
	•		• Z • 3	T7-PNK	T8-RED
YY [] [2	_്	ר ב- א	-2 -2	T9-BRK RED	RED
INTERCHANGE AN	Y TWO LINE WIR	RES TO REVER	INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION		000000000
WARNING: Mo and nation shocks. D	tor must be gro al electrical cot disconnect pow	unded in acco les to prevent er source befo	WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.	×	
	TISSEMENT: L	e moteur dolt	AVERTISSEMENT: Le moteur doit être mis à la terre		ÿ

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre <sup>I</sup>