# DATA SHEET

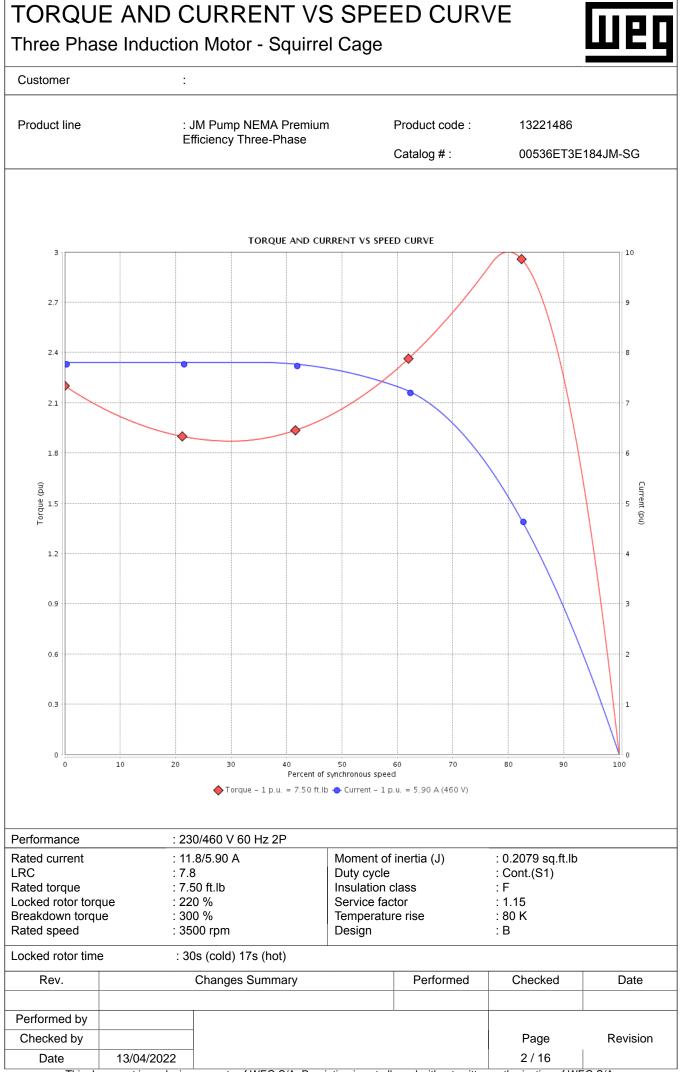
Three Phase Induction Motor - Squirrel Cage

:



#### Customer

Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13221486	13221486 00536ET3E184JM-SG	
				Catalog # :	00536ET3E		
Frame		: 182/4JM		Cooling method	: IC411 - TE	FC	
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°	С	Starting method		: Direct On Line	
Altitude		: 1000 m.a.s.l.	J. J	Approx. weight <sup>3</sup>		: 88.9 lb	
Protection degre	<u>م</u>	: IP55		Moment of inertia (J)	: 0.2079 sq.1	ft lh	
Design	C	: B			. 0.2070 34.	11.10	
Dutput [HP]		5		5		5	
Poles		2		2		2	
Frequency [Hz]		60	)	50		50	
Rated voltage [V]		230/4	160	190-220/380		415	
Rated current [A]		11.8/5	5.90	14.3-12.4/7.17		6.59	
. R. Amperes [A]		92.0/4		91.8-79.3/45.9		50.7	
_RC [A]		7.8x(Co		6.4x(Code G)			
	1					7.7x(Code J)	
No load current [A		4.40/2		4.34-3.75/2.17		2.45	
Rated speed [RPN	<b>/</b> I]	350		2860		2885	
Slip [%]		2.7		4.67		3.83	
Rated torque [ft.lb]		7.5		9.18		9.10	
Locked rotor torqu		220		180			
Breakdown torque		30		250		220 300	
Service factor		1.1		1.00	1.00		
Temperature rise		80		105 K		05 K	
Locked rotor time		30s (cold)		Os (cold) Os (hot)		d) 0s (hot)	
Noise level <sup>2</sup>		68.0 d		65.0 dB(A) 65.0 d		) dB(A)	
	25%	0.00					
$\Box$ fficience (0()	50%	87.	5	88.1	88.1 88.0		
Efficiency (%)	75%	88.	5	87.3	8	38.1	
	100%	88.		85.2		36.8	
	25%	0.00		00.2	`		
	50%			0.82		0.76	
Power Factor		0.76					
	75%	0.85		0.89		0.86	
	100%	0.89		0.92		0.90	
Decisions to ma			Non drive end	Foundation loads			
Bearing type		: 6207 ZZ 6205 ZZ		Max. traction	: 130 lb		
Sealing		: V'Ring	Without Bearing Seal	Max. compression	: 219 lb		
Lubrication interv	val						
Lubricant amoun		· -	-				
	n e	 . Mahil D.					
Lubricant type			olyrex EM				
Notes							
USABLE @208V	13.1A SF 1.	00 SFA 13.1A					
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	aces and car ed. notor from the 1m and with t weight subject	ncel the previous e shaft end. olerance of +3dB	(A).	These are average values I power supply, subject to the MG-1.			
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate	aces and car ed. notor from the 1m and with t weight subject ocess.	ncel the previous e shaft end. olerance of +3dB	(A).	power supply, subject to the			
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This revision replamust be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of ful Rev.	aces and car ed. notor from the 1m and with t weight subject ocess.	ncel the previous e shaft end. olerance of +3dB st to changes afte	(A). r	power supply, subject to the MG-1.	e tolerances stipu	lated in NEMA	
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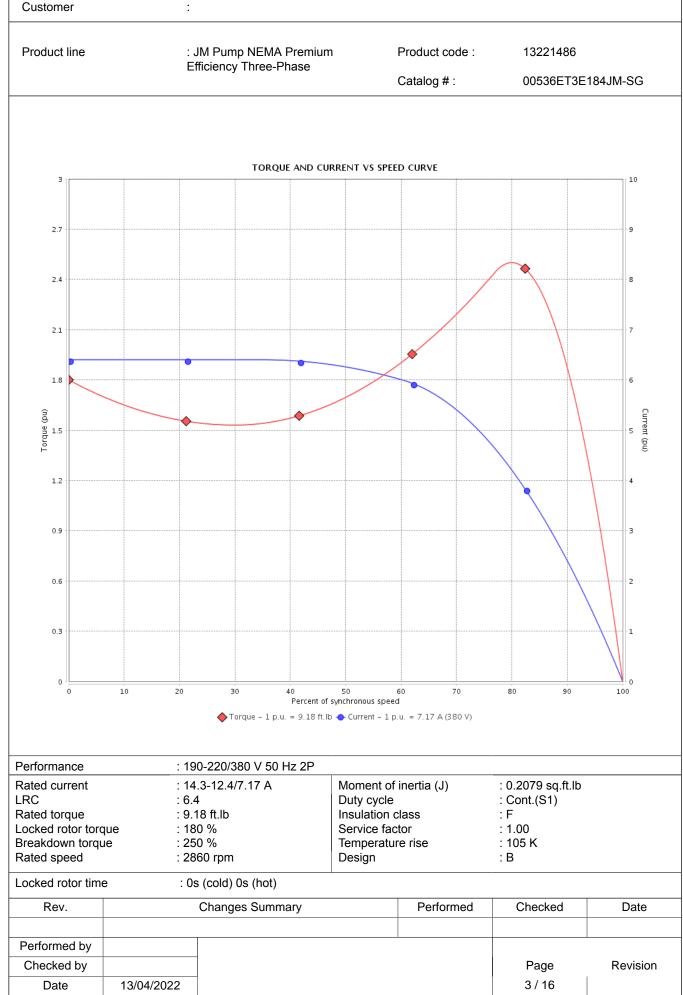


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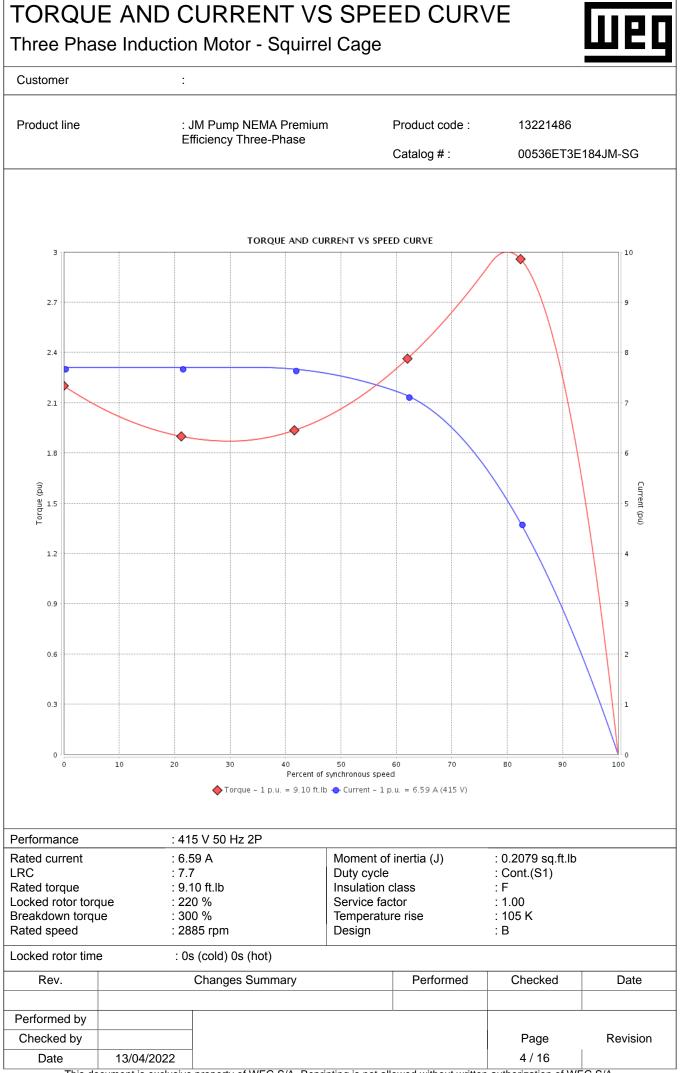
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



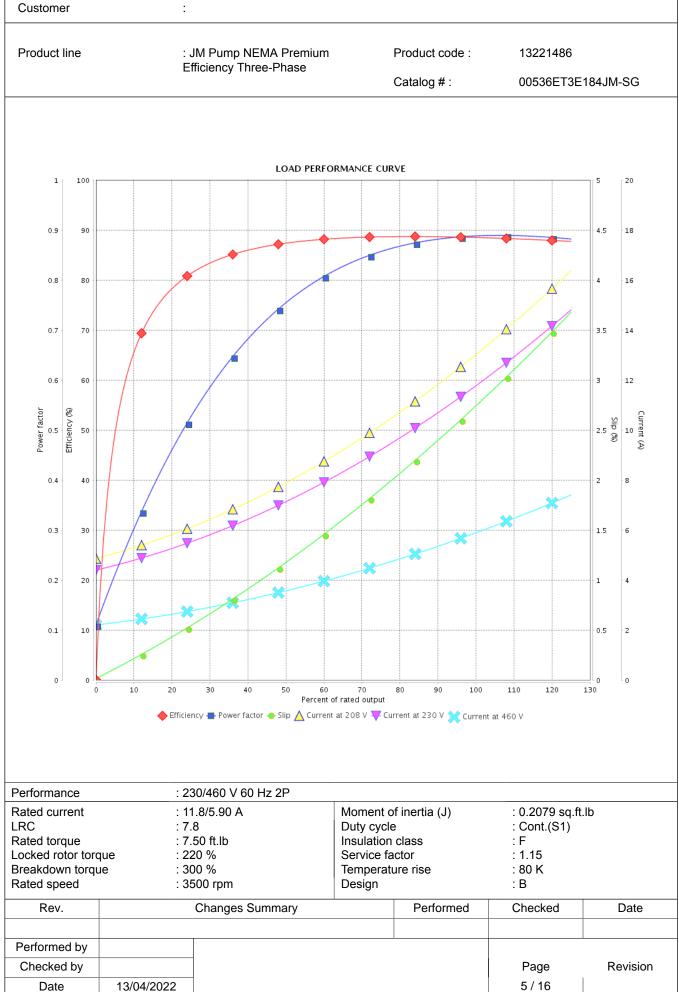
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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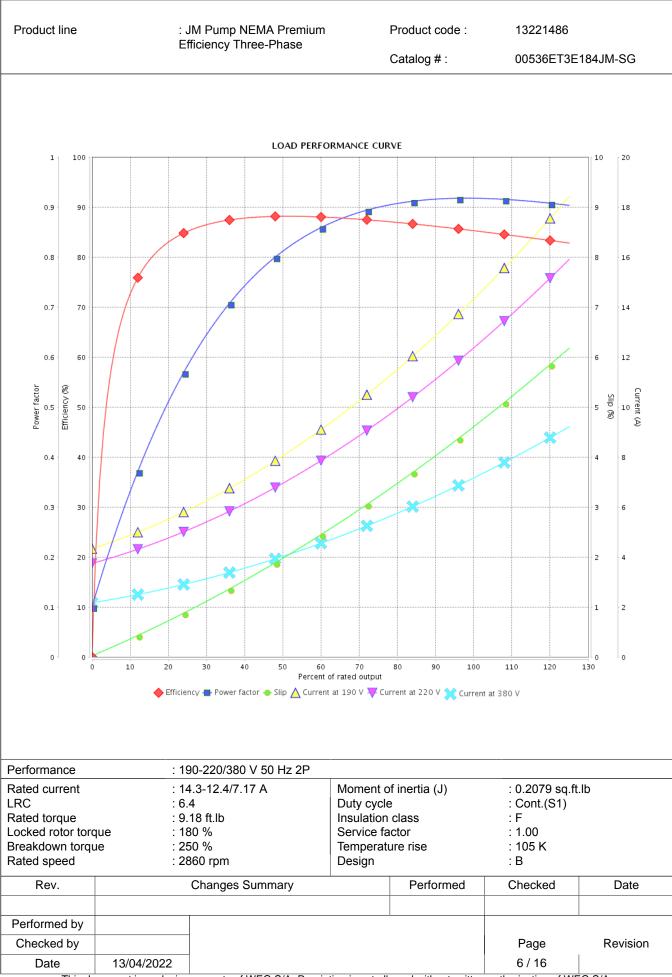
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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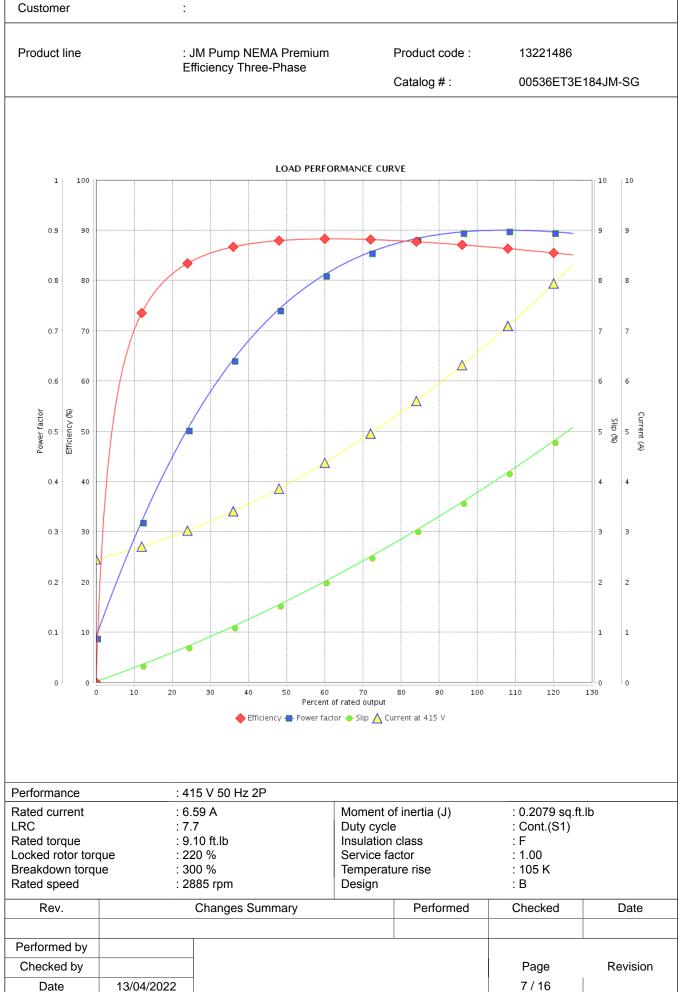
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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# THERMAL LIMIT CURVE

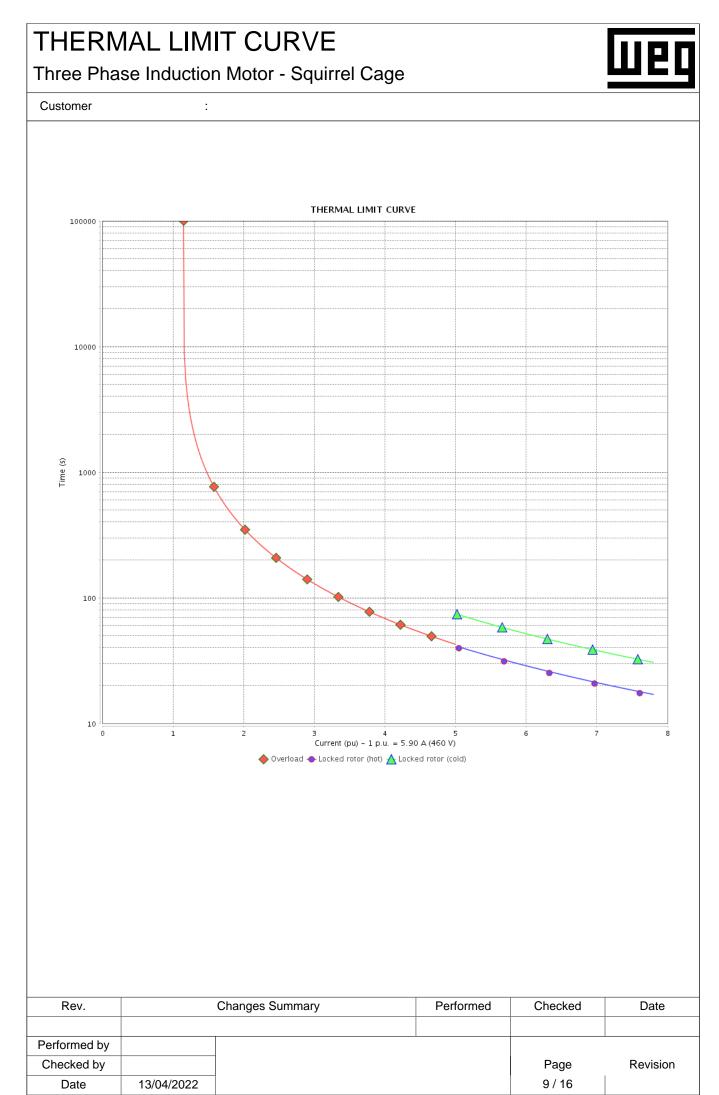
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13221486 00536ET3E184JM-SG	
			Catalog # :		
Performance	: 230/460 V 60 Hz 2P				
	: 11.8/5.90 A		f inertia (J)	: 0.2079 sq.ft.l	b
	: 7.8 : 7.50 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.15	
reakdown torque : 300 %		Temperature rise		: 80 K : B	
	: 3500 rpm	Design		: B	
Heating constant					
Cooling constant	Changes Summers		Performed	Checked	Data
Rev.	Changes Summary		renonnea	Спескей	Date
Performed by					
Checked by				Page	Revision
Date 13/04/2022	,			Fage 8 / 16	I CONSION
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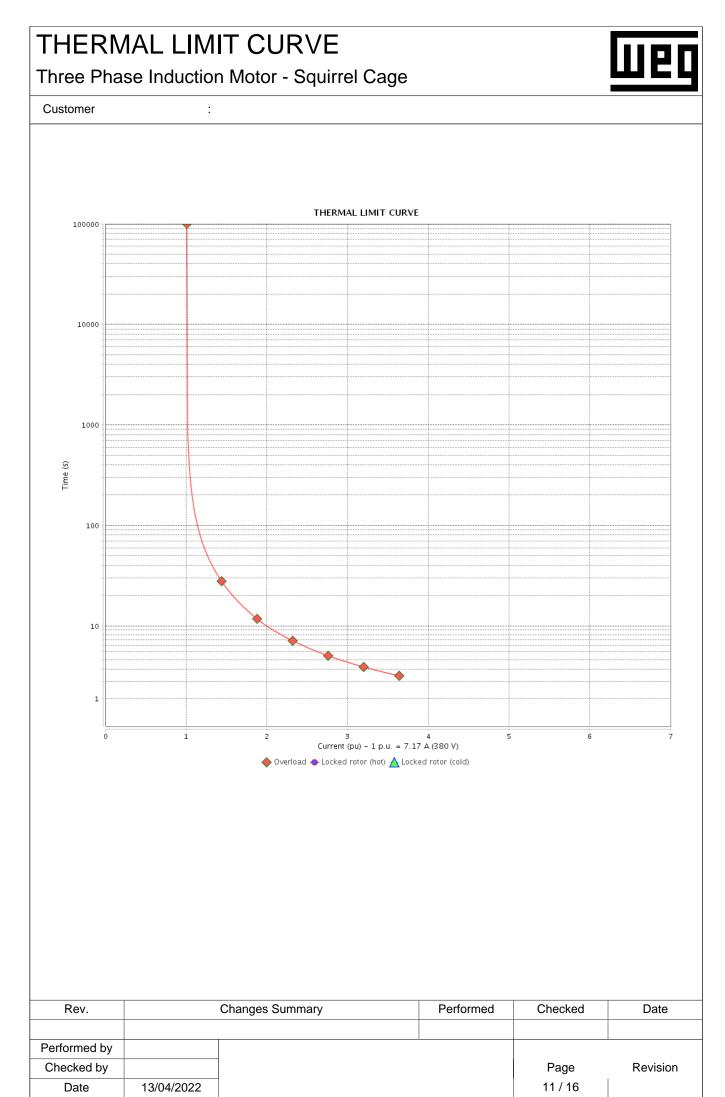
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: JM Pump NEMA Premium Efficiency Three-Phase			Product code :	13221486	
				Catalog # :	00536ET3E1	84JM-SG
Performance	:	190-220/380 V 50 Hz 2P				
Rated current: 14.3-12.4/7.17 ALRC: 6.4Rated torque: 9.18 ft.lbLocked rotor torque: 180 %Breakdown torque: 250 %		6.4 9.18 ft.lb 180 % 250 %	Moment of inertia (J): 0.2079 sq.ft.Duty cycle: Cont.(S1)Insulation class: FService factor: 1.00Temperature rise: 105 K		b	
Rated speed		2860 rpm	Design		: B	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				10 / 16	
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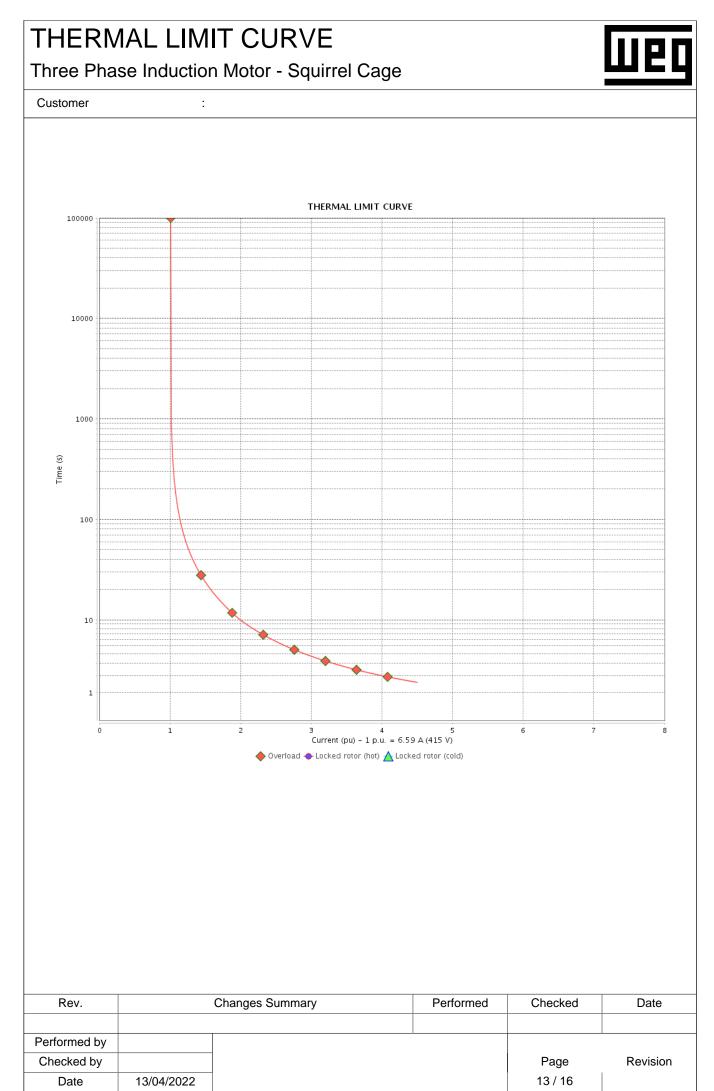
Three Phase Induction Motor - Squirrel Cage

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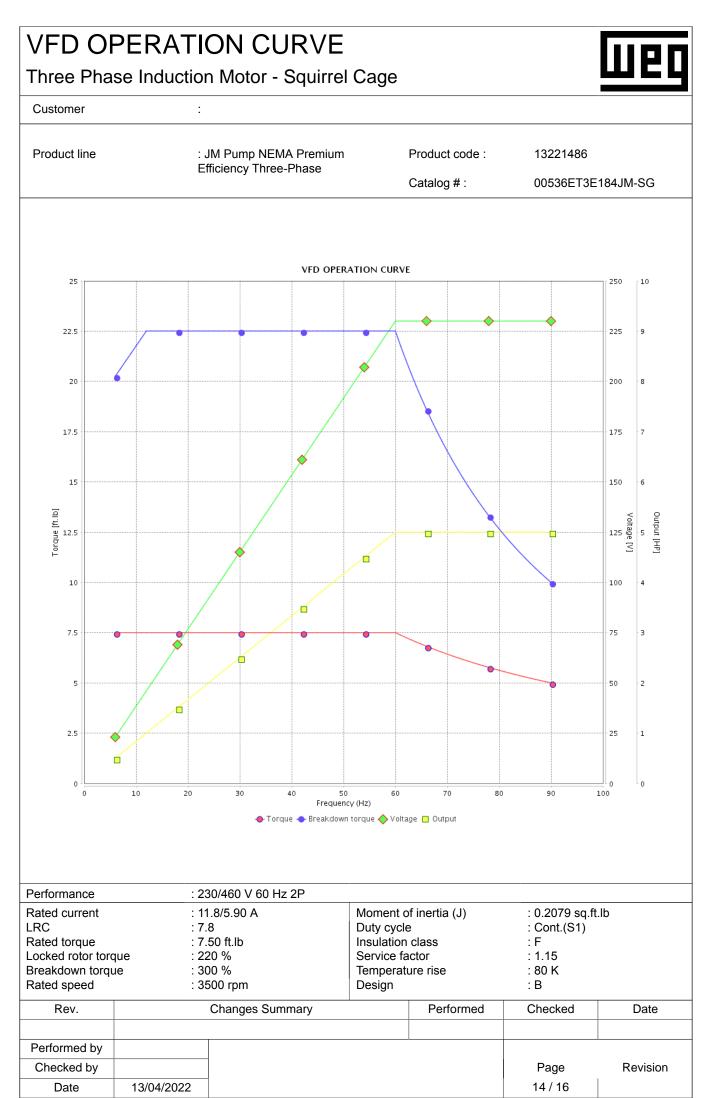


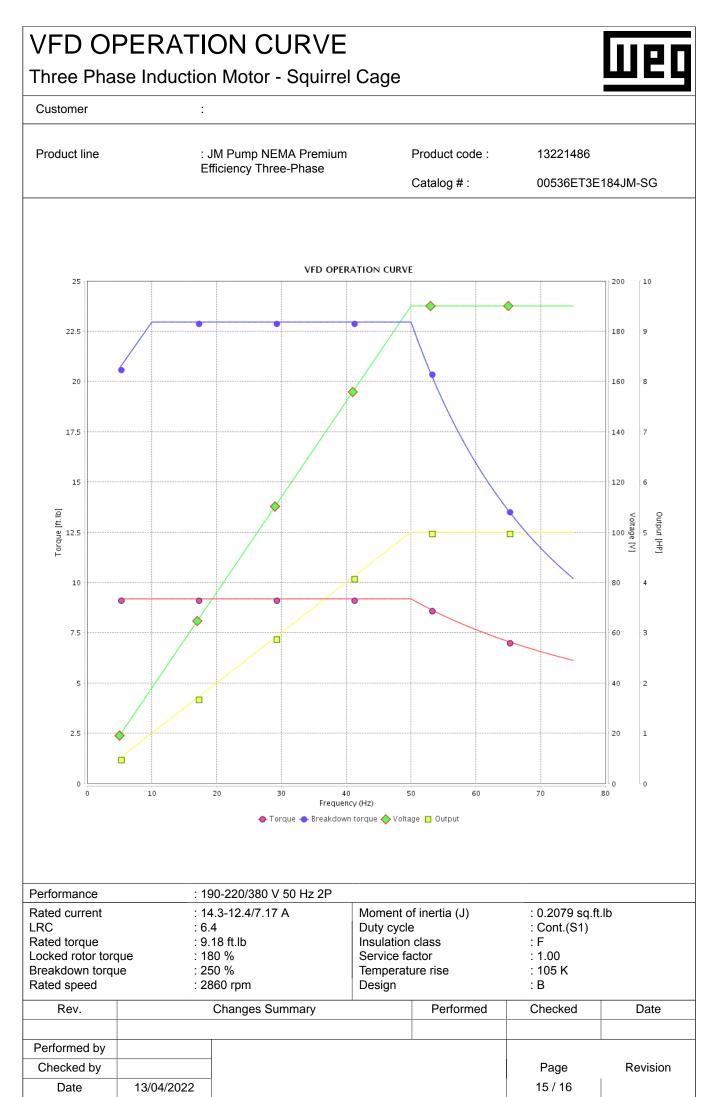
Customer

Product line	: JM Pump NEMA Premium Efficiency Three-Phase			Product code :	13221486	
				Catalog # :	00536ET3E	184JM-SG
Performance	: 47	15 V 50 Hz 2P				
Rated current: 6.59 ALRC: 7.7Rated torque: 9.10 ft.lbLocked rotor torque: 220 %Breakdown torque: 300 %Rated speed: 2885 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2079 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant						
Cooling constant		Changes Summers		Dorformed	Checked	Data
Rev.		Changes Summary		Performed	Спескеа	Date
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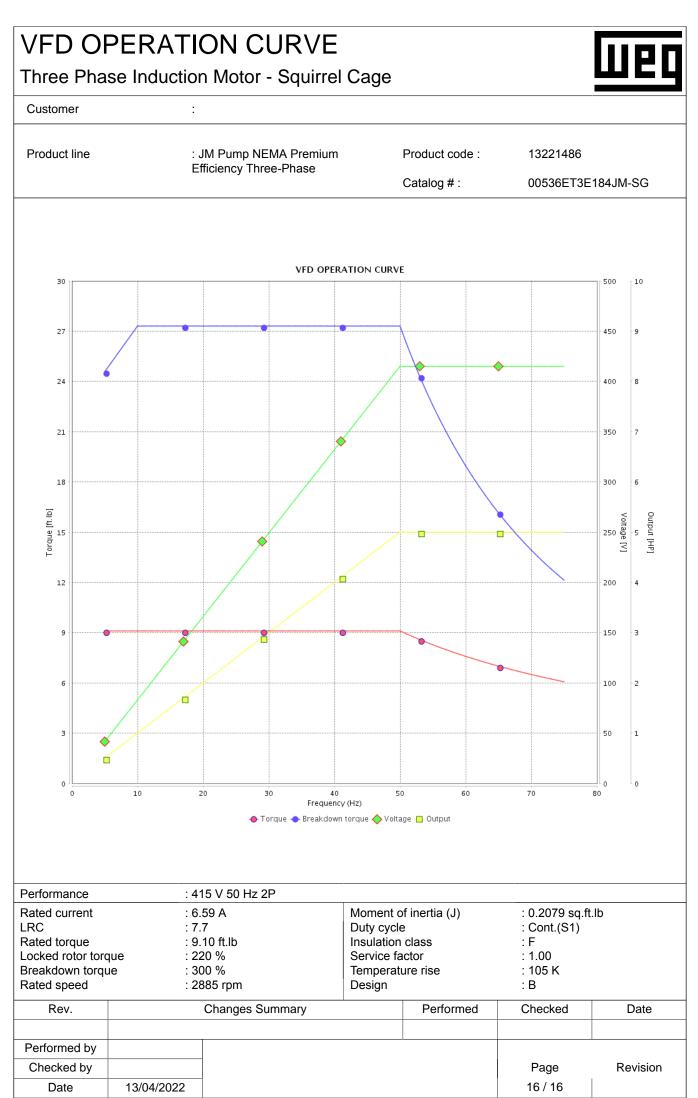


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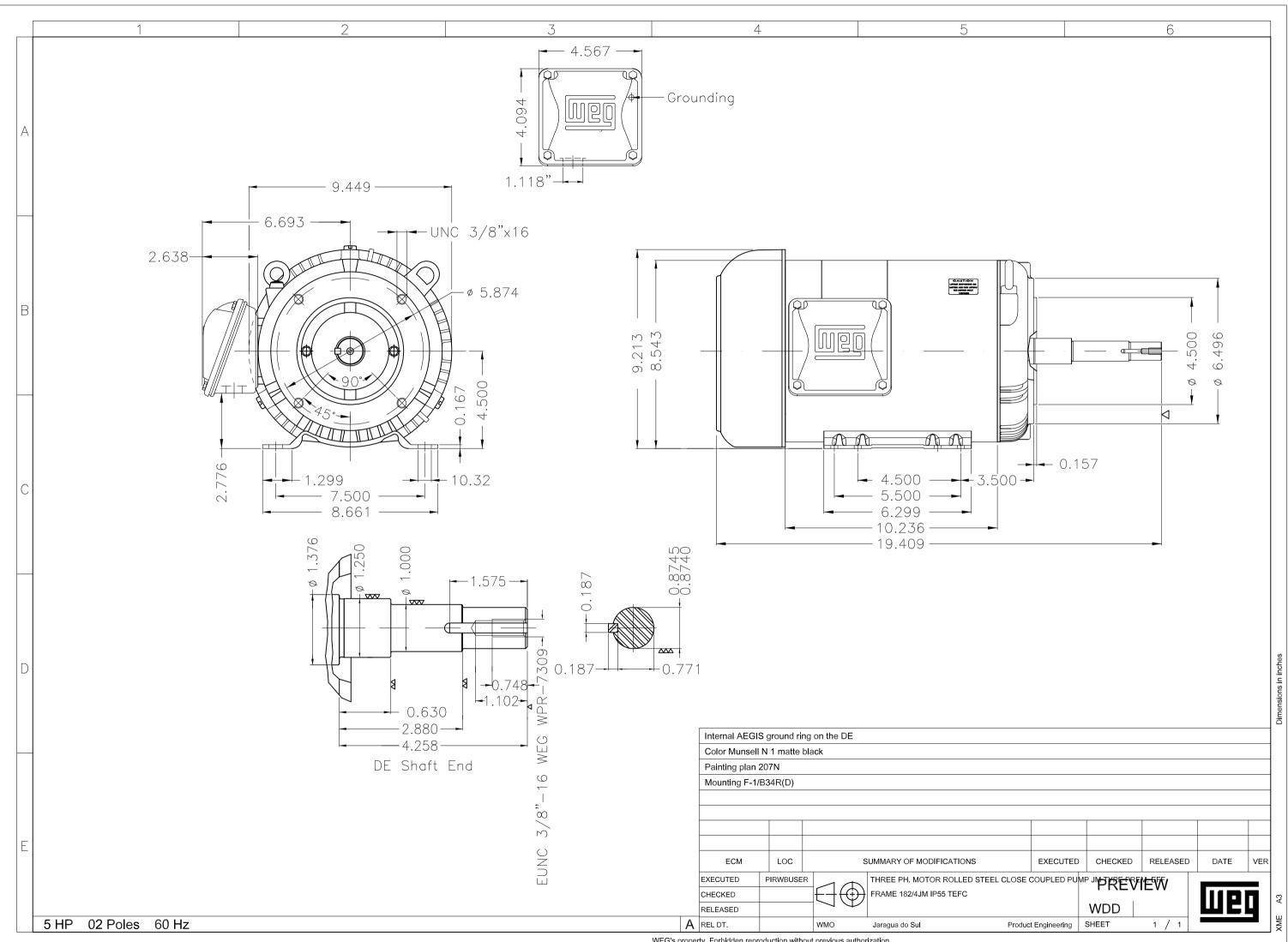




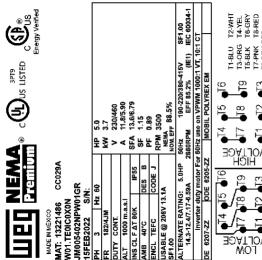
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T8-RED RED T9-BRK AVERTISSEMENT: Le moteur doit être mis à la terre chocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation avant l'entrefien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout