# DATA SHEET

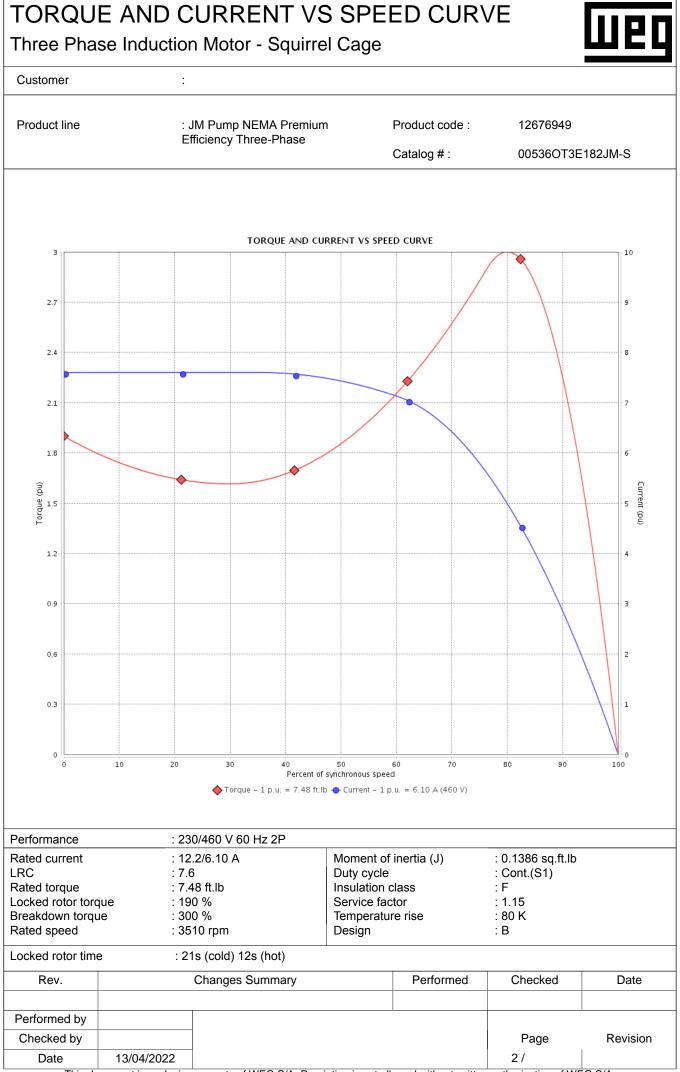
Three Phase Induction Motor - Squirrel Cage

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#### Customer

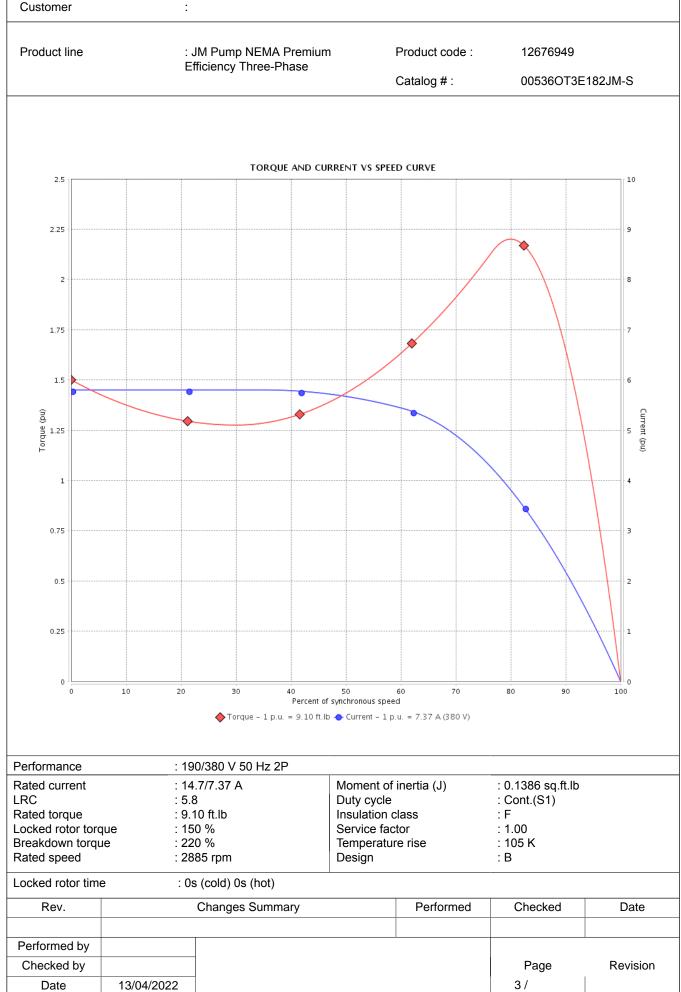
	Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :		12676949	
			400	C	atalog # :	00536OT3E182JM-S		
Frame		: 182/4JM		Cooling m	nethod	: IC01 - OE	)P	
Insulation class		: F		Mounting		: F-1		
Duty cycle			: Cont.(S1)				: Both (CW and CCW)	
Ambient tempera	iture	: -20°C to +40°C		Rotation <sup>1</sup> Starting m	nethod		: Direct On Line	
Altitude		: 1000 m.a.s.l.		Approx. w		: 62.9 lb		
Design		: B			of inertia (J)	: 0.1386 so	a.ft.lb	
•		F					-	
Output [HP]		5			5 2		5 2	
Poles							_	
Frequency [Hz]		60			50		50	
Rated voltage [V]			230/460		190/380		220/415	
Rated current [A]		12.2/6.10			14.7/7.37		13.2/7.01	
L. R. Amperes [A]		92.7/46.4	<u>,                                     </u>		35.5/42.7		6.0/45.6	
LRC [A]		7.6x(Code J)	)		8x(Code G)		x(Code H)	
No load current [A]		5.15/2.58		5	5.05/2.53	5	.33/2.83	
Rated speed [RPN	1]	3510			2885		2900	
Slip [%]		2.50			3.83		3.33	
Rated torque [ft.lb]		7.48			9.10		9.05	
Locked rotor torque	e [%]	190			150		170	
Breakdown torque	[%]	300			220		250	
Service factor		1.15			1.00		1.00	
Temperature rise					105 K		80 K	
Locked rotor time			21s (cold) 12s (hot)		cold) 0s (hot)	0s (co	Os (cold) Os (hot)	
Noise level <sup>2</sup>		65.0 dB(A)	,		3.0 dB(A)		5.0 dB(A)	
	25%						87.1	
							86.0	
Efficiency (%)							86.2	
	$) \begin{array}{ c c c c c c c } \hline 25\% & 85.2 & 88.3 \\ \hline 50\% & 85.5 & 86.5 \\ \hline 75\% & 86.5 & 86.0 \\ \hline 100\% & 86.5 & 83.8 \\ \hline 25\% & 0.45 & 0.51 \\ \hline 50\% & 0.73 & 0.79 \\ \hline \end{array}$		84.7					
	100%			<u> </u>		0.47		
							0.75	
Power Factor	75%	0.73			0.88		0.85	
	100%	0.88			0.91		0.85	
	100 /0		drive ered	Four-d-4			0.00	
Dooring to			drive end	Foundation				
Bearing type			6205 ZZ	Max. tracti		: 113 lb		
Sealing			Without	Max. comp	pression	: 176 lb		
		Bearing Seal Bea	aring Seal					
Lubrication interv		: -	-					
Lubricant amount		:						
Lubricant type		: Mobil Polyrex EM						
		·						
Notes USABLE @208V	13.5A SF 1.	00 SFA 13.5A						
USABLE @208V This revision repla must be eliminate (1) Looking the ma (2) Measured at 1 (3) Approximate w manufacturing pro	aces and can d. otor from the m and with t veight subjec ocess.	cel the previous one, v shaft end. olerance of +3dB(A).	which		•	based on tests v le tolerances stip		
USABLE @208V This revision repla must be eliminate (1) Looking the mo (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of full	aces and can d. otor from the m and with t veight subjec ocess.	cel the previous one, v shaft end. olerance of +3dB(A). t to changes after		power sup	ply, subject to th	e tolerances stip	ulated in NEMA	
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate w manufacturing pro	aces and can d. otor from the m and with t veight subjec ocess.	cel the previous one, v shaft end. olerance of +3dB(A).		power sup	•			
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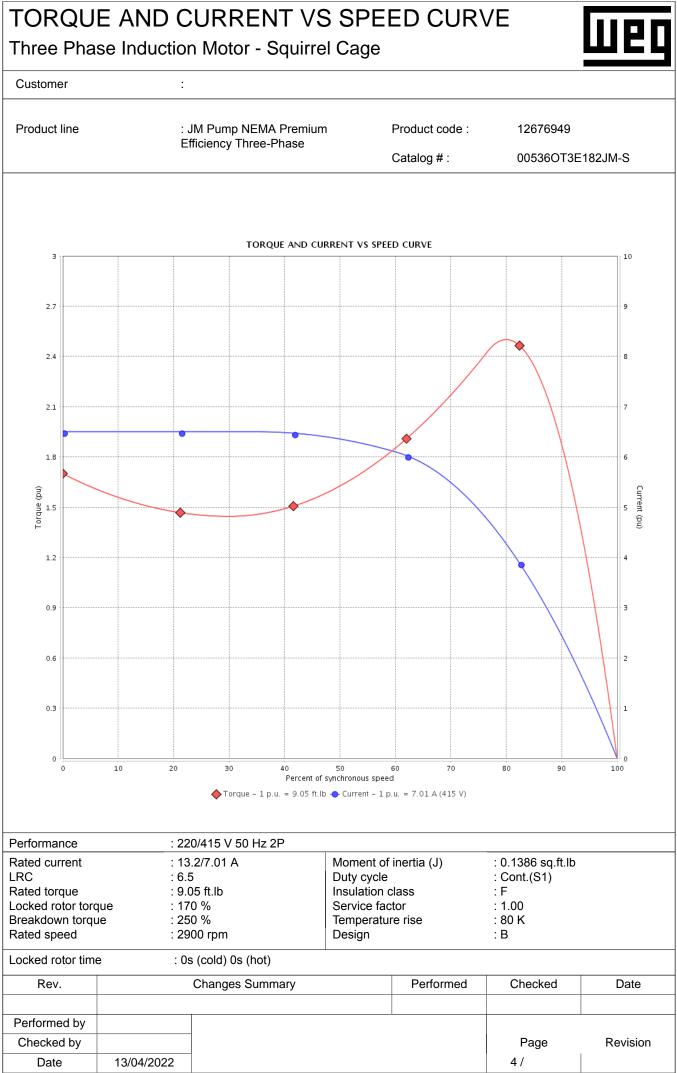
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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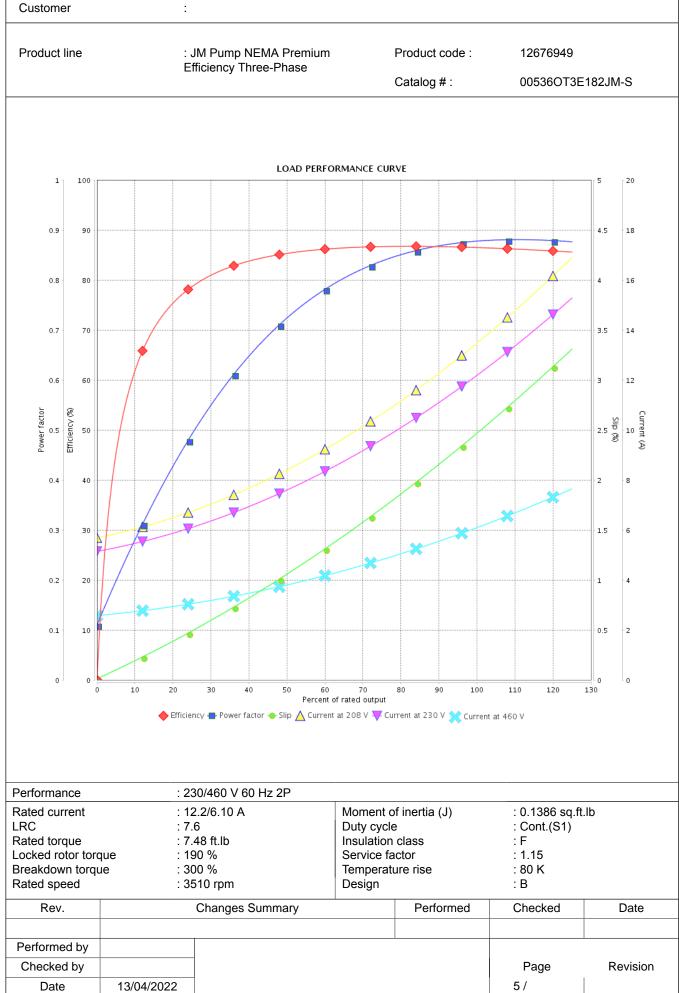


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## LOAD PERFORMANCE CURVE

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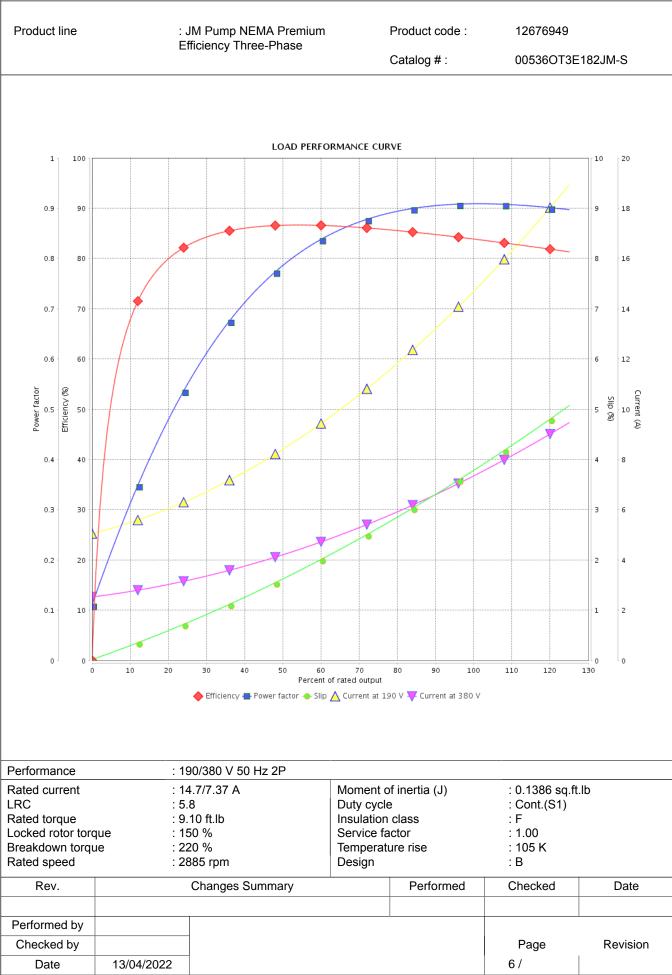
## LOAD PERFORMANCE CURVE

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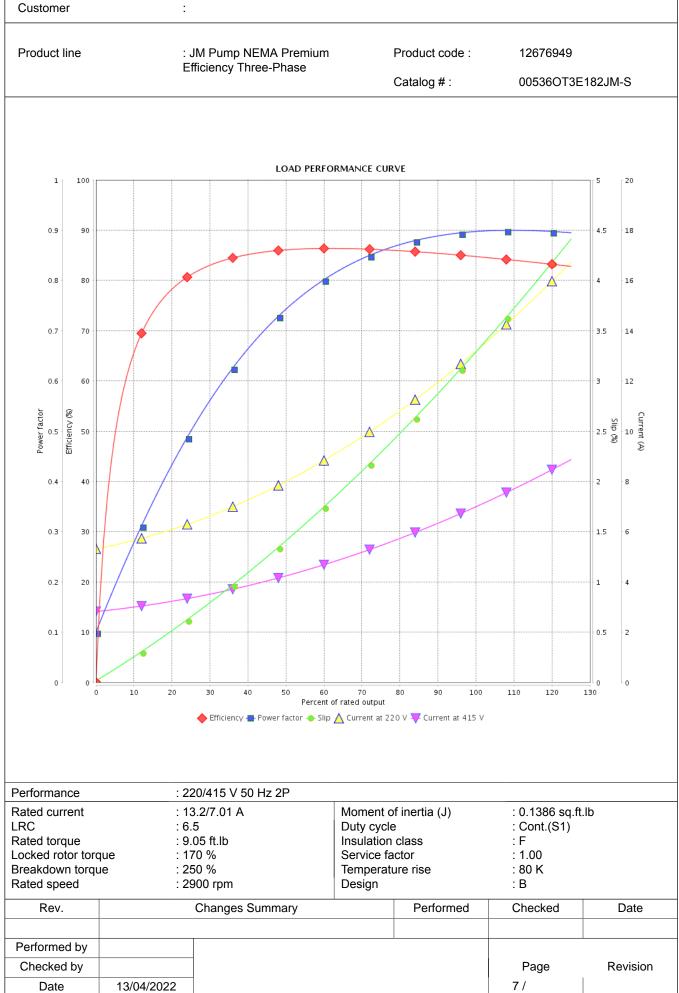
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## LOAD PERFORMANCE CURVE

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## THERMAL LIMIT CURVE

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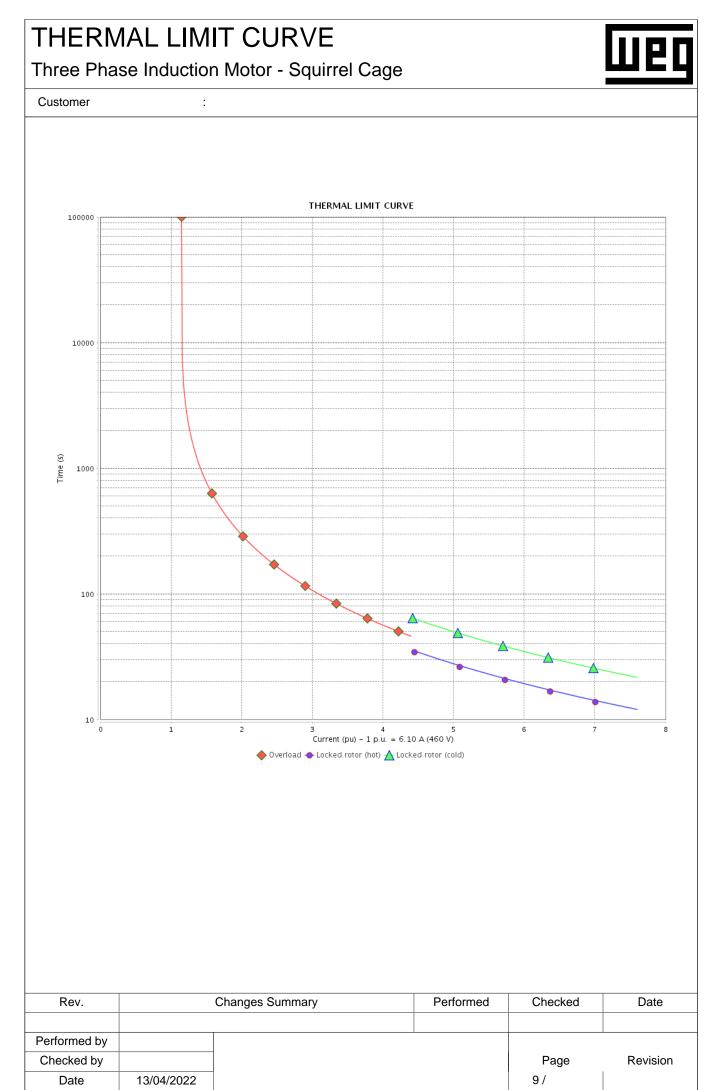


Customer

Product line	: . F'	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676949	
	-			Catalog # :	00536OT3E	182JM-S
Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC	: 12.2/6.10 A : 7.6		Moment of inertia (J) Duty cycle		: 0.1386 sq.ft.lb : Cont.(S1)	
Rated torque		48 ft.lb	Insulation	class	: F	
Locked rotor toro		90 % 00 %	Service fa Temperat		: 1.15 : 80 K	
Breakdown torqu Rated speed		50 % 510 rpm	Design	urense	: B	
Heating constant		r	3			
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by		_			I	
Checked by		-			Page	Revision
Date	13/04/2022				8 /	

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## THERMAL LIMIT CURVE

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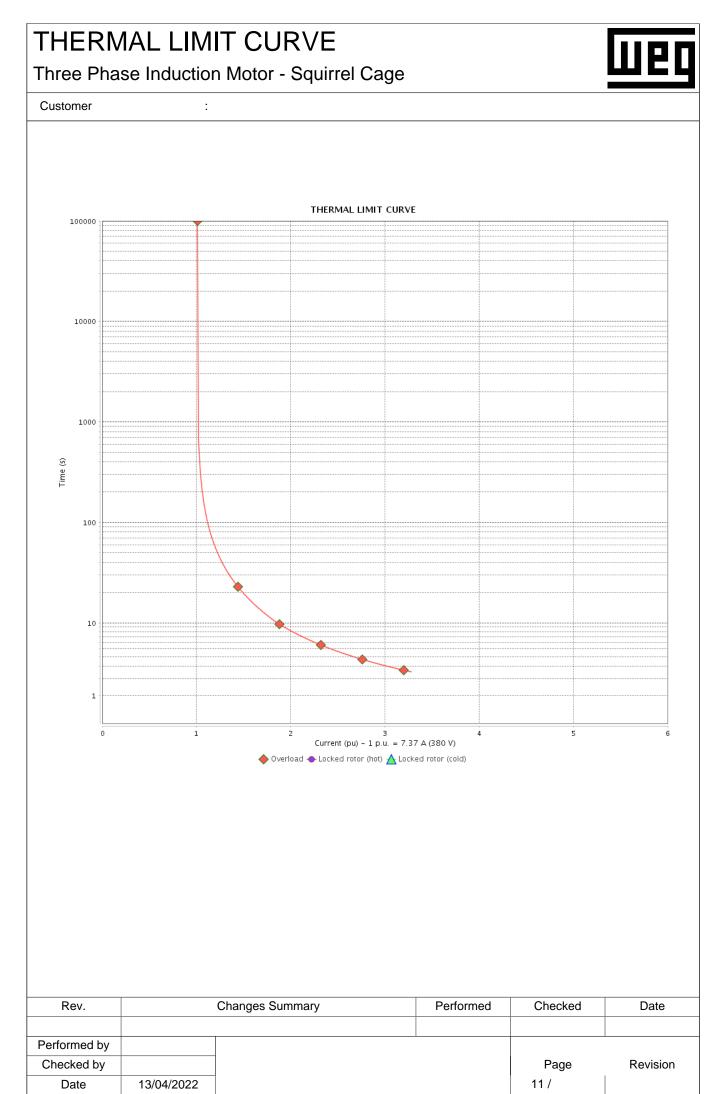


Customer

			Product code :				
Product line	: . E'	JM Pump NEMA Premium fficiency Three-Phase	NEMA Premium F hree-Phase		12676949		
		,,		Catalog # :	00536OT3E	182JM-S	
Performance	: 19	90/380 V 50 Hz 2P					
Rated current: 14.7/7.37 ALRC: 5.8Rated torque: 9.10 ft.lbLocked rotor torque: 150 %Breakdown torque: 220 %Rated speed: 2885 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1386 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B			
Heating constant	1						
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
		1					
Performed by		-			-	<b>_</b>	
Checked by		-			Page	Revision	
Date	13/04/2022				10 /		

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## THERMAL LIMIT CURVE

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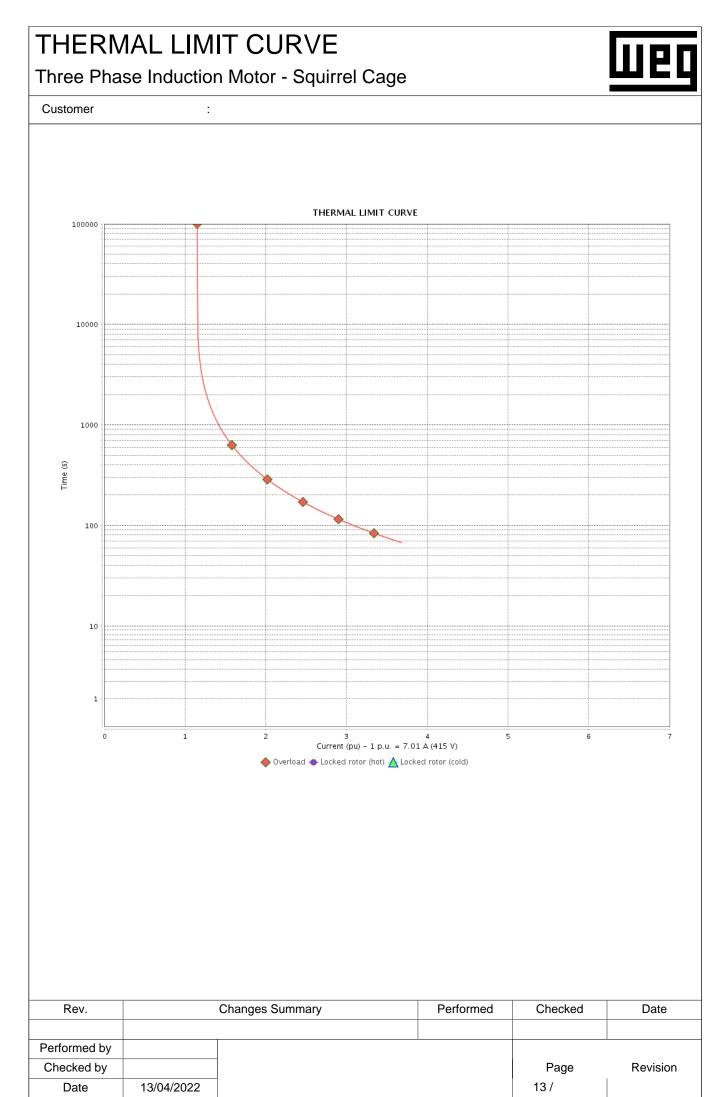


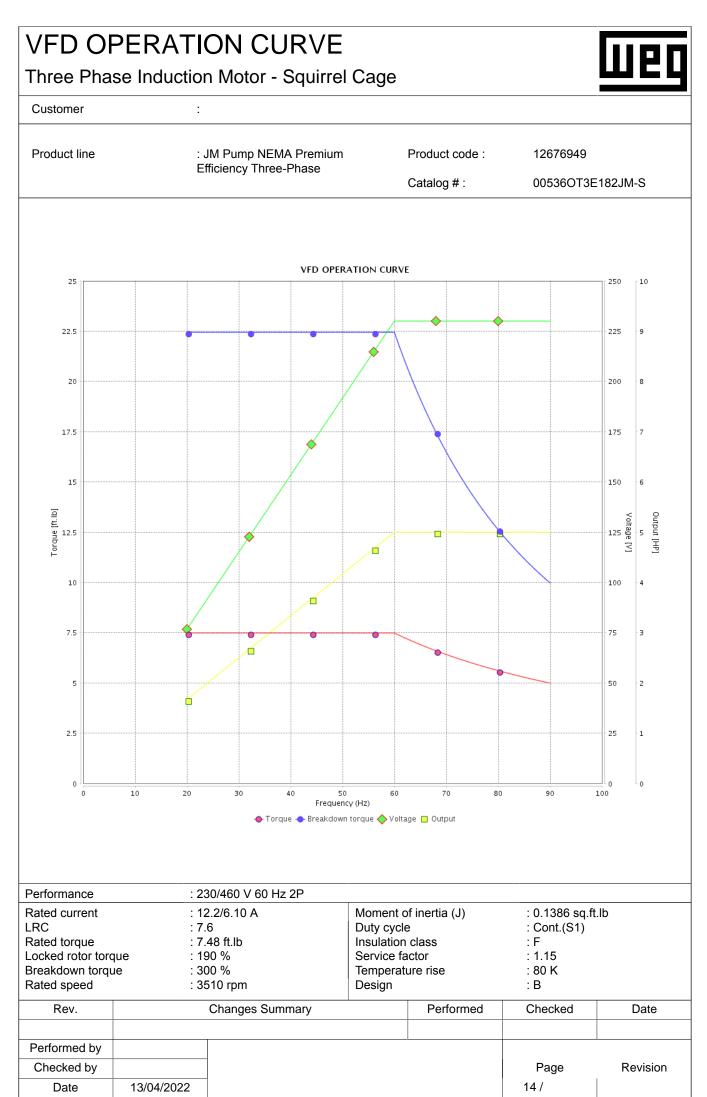
Customer

Product line	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676949	
			Catalog # :	00536OT3E	182JM-S
Performance	: 220/415 V 50 Hz 2P				
Rated current	ted current : 13.2/7.01 A		of inertia (J)	: 0.1386 sq.ft.lb	
	: 6.5 d torque : 9.05 ft.lb		e class	: Cont.(S1) : F	
Locked rotor torque	: 170 %	Service fa	ictor	: 1.00	
	: 250 %	Temperat	ure rise	: 80 K : B	
		L Decian		·н	
Heating constant	: 2900 rpm	Design			
Cooling constant	: 2900 rpm	Design			
Rev.		Design			
	Changes Summary	Design	Performed	Checked	Date
Porformed by		Design	Performed		Date
Performed by Checked by			Performed		Date

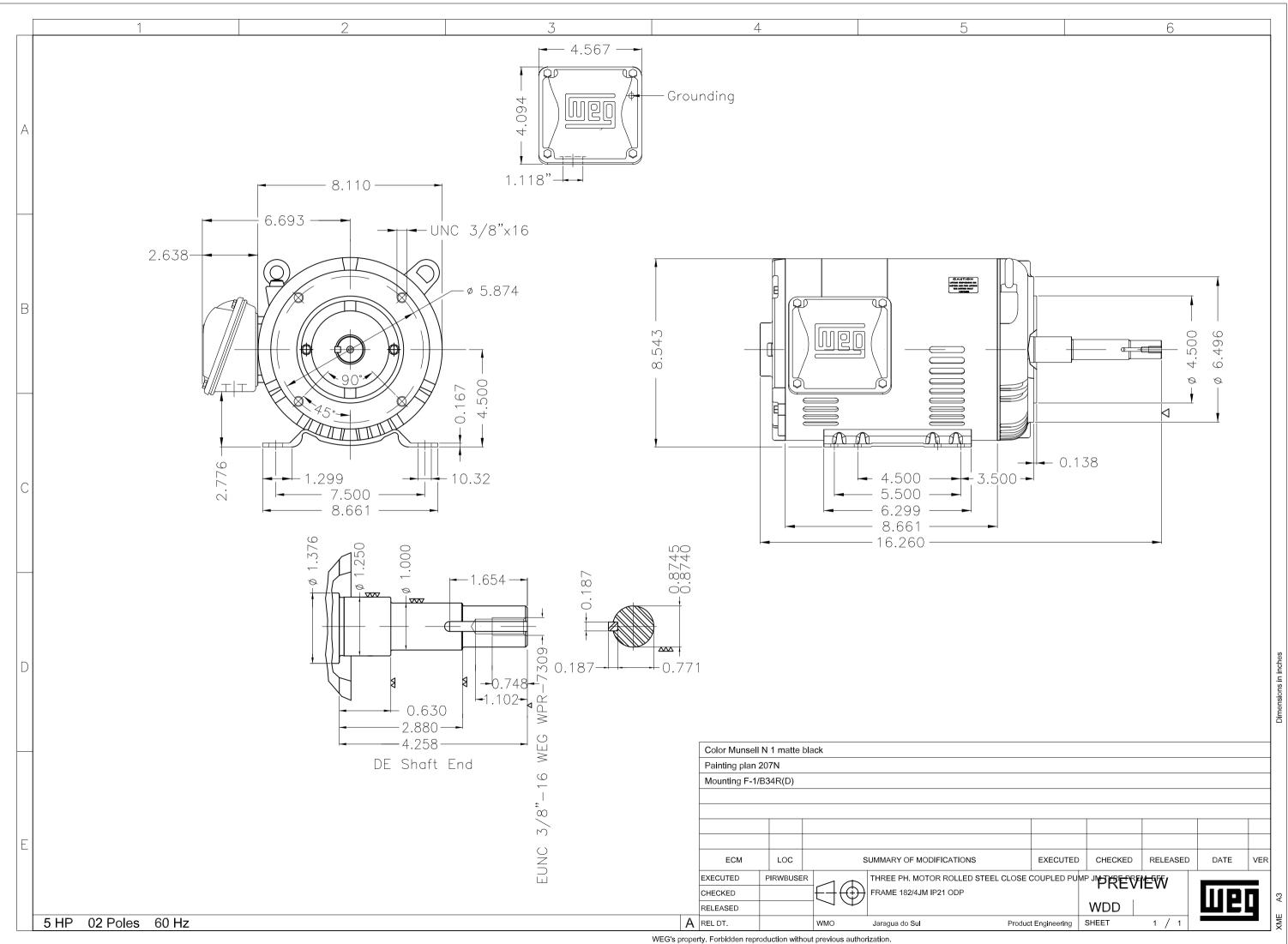
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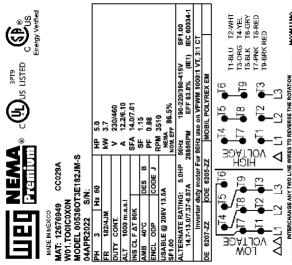
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choc électrique grave. Déconnectez l'alimentation avant l'entrefien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre

