# DATA SHEET

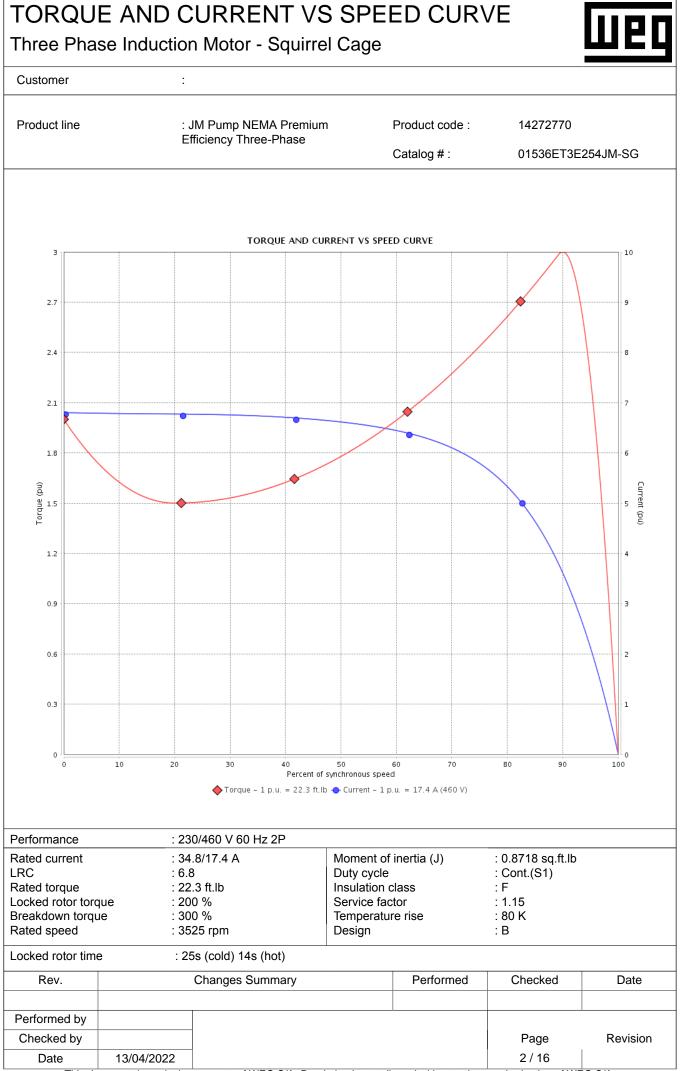
Three Phase Induction Motor - Squirrel Cage

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#### Customer

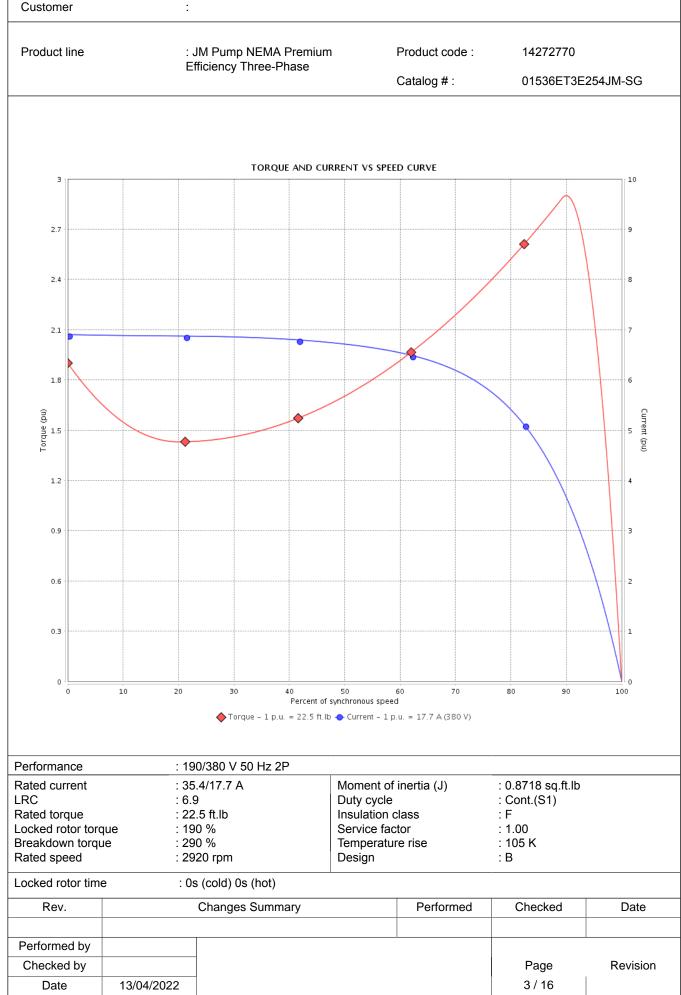
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	14272770		
			Catalog # :	01536ET3E254JM-SG		
Frame Insulation class Duty cycle		: 254/6JM : F : Cont.(S1)	Cooling method Mounting Rotation <sup>1</sup>	: IC411 - TEFC : F-1 : Both (CW and CCW)		
Ambient temperature Altitude Protection degree		: -20°C to +40°C : 1000 m.a.s.l. : IP55	Starting method Approx. weight <sup>3</sup> Moment of inertia (J)	: Direct On Line : 195 lb : 0.8718 sq.ft.lb		
Design	0	: B				
Output [HP]		15	12.5	12.5		
		2 60	2 50	2 50		
Frequency [Hz] Rated voltage [V]		230/460	190/380	220/415		
		34.8/17.4	35.4/17.7	32.3/17.1		
Rated current [A]		237/118	244/122	245/130		
R. Amperes [A]						
RC [A]	-	6.8x(Code G)	6.9x(Code H)	7.6x(Code J)		
No load current [A		13.0/6.50	13.6/6.80	13.9/7.39		
Rated speed [RPN	/I]	3525	2920	2930		
Slip [%]		2.08	2.67	2.33		
Rated torque [ft.lb]		22.3	22.5	22.4		
ocked rotor torqu		200	190	210		
Breakdown torque	[%]	300	290	330		
Service factor		1.15	1.00	1.00		
emperature rise		80 K	105 K	105 K		
ocked rotor time		25s (cold) 14s (hot)	0s (cold) 0s (hot)	Os (cold) Os (hot)		
loise level <sup>2</sup>		75.0 dB(A)	72.0 dB(A)	72.0 dB(A)		
	25%	89.2	90.7	90.1		
	50%	89.5	90.2	90.0		
Efficiency (%)	75%	91.0	90.6	90.7		
	100%	91.0	89.8	90.3		
	25%	0.47	0.47	0.43		
	50%	0.73	0.74	0.70		
Power Factor	75%	0.83	0.84	0.81		
	100%	0.87	0.88	0.86		
Pooring type	100 /0	<u>Drive end</u> <u>Non drive end</u> : 6309 Z C3 6208 Z C3	Foundation loads			
Bearing type			Max. traction	: 257 lb		
Sealing		: V'Ring V'Ring	Max. compression	: 452 lb		
Lubrication interv		: 15797 h 20000 h				
Lubricant amoun	t	: 13 g 8 g				
Lubricant type		: Mobil Polyrex EM				
Notes USABLE @208V	38.5A SF 1.	00 SFA 38.5A				
<ul> <li>This revision replaces and cancel the previous one, which must be eliminated.</li> <li>(1) Looking the motor from the shaft end.</li> <li>(2) Measured at 1m and with tolerance of +3dB(A).</li> <li>(3) Approximate weight subject to changes after manufacturing process.</li> <li>(4) At 100% of full load.</li> </ul>			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.			
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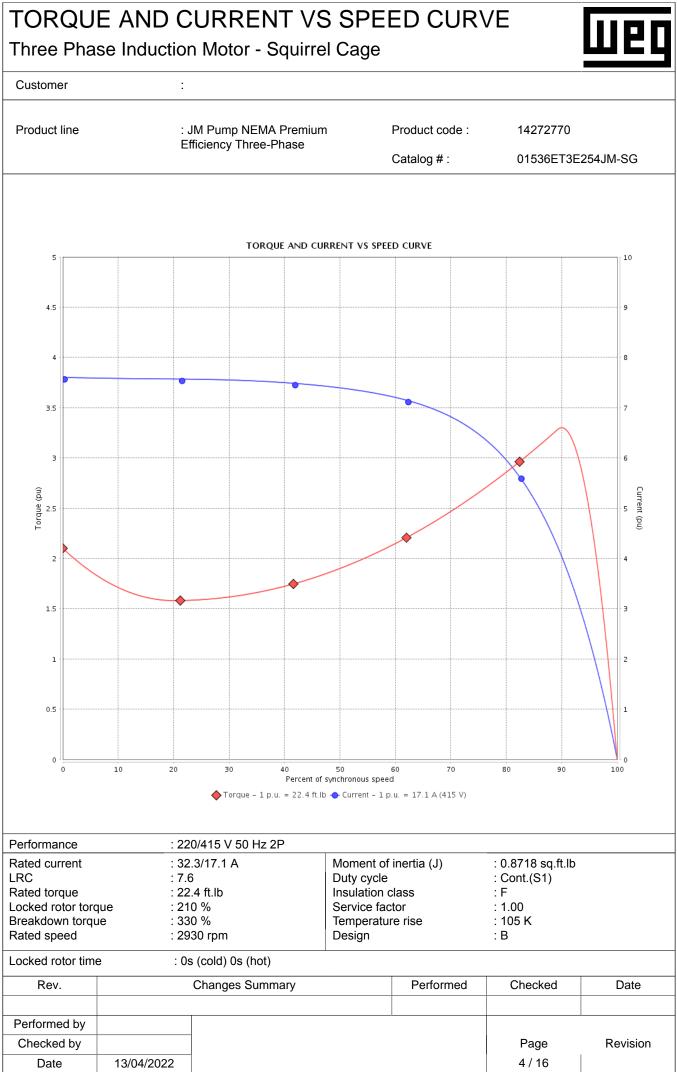
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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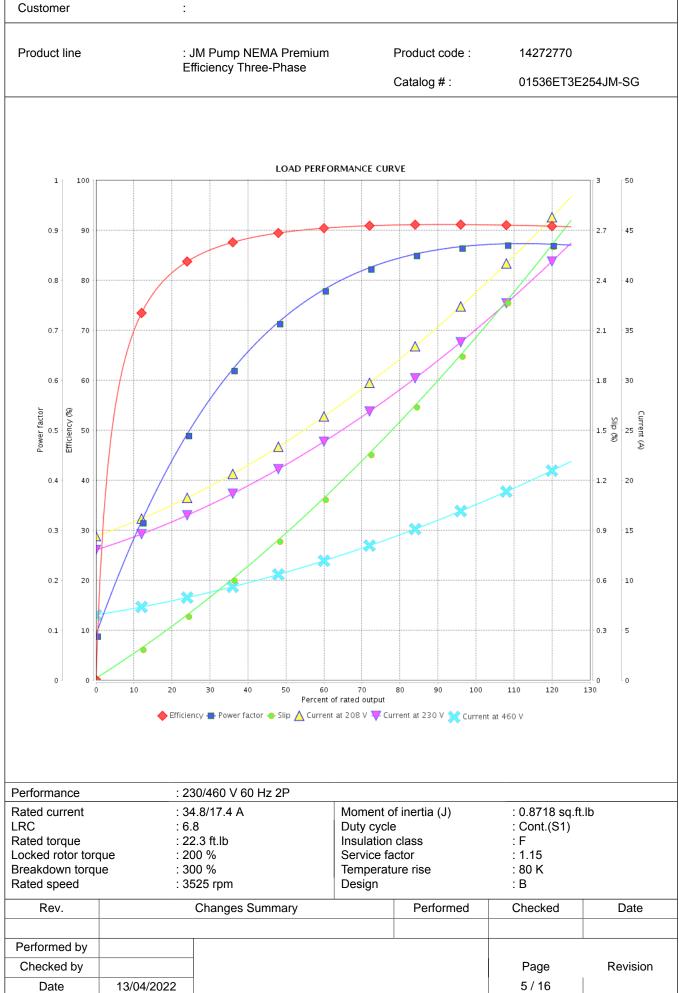


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# LOAD PERFORMANCE CURVE

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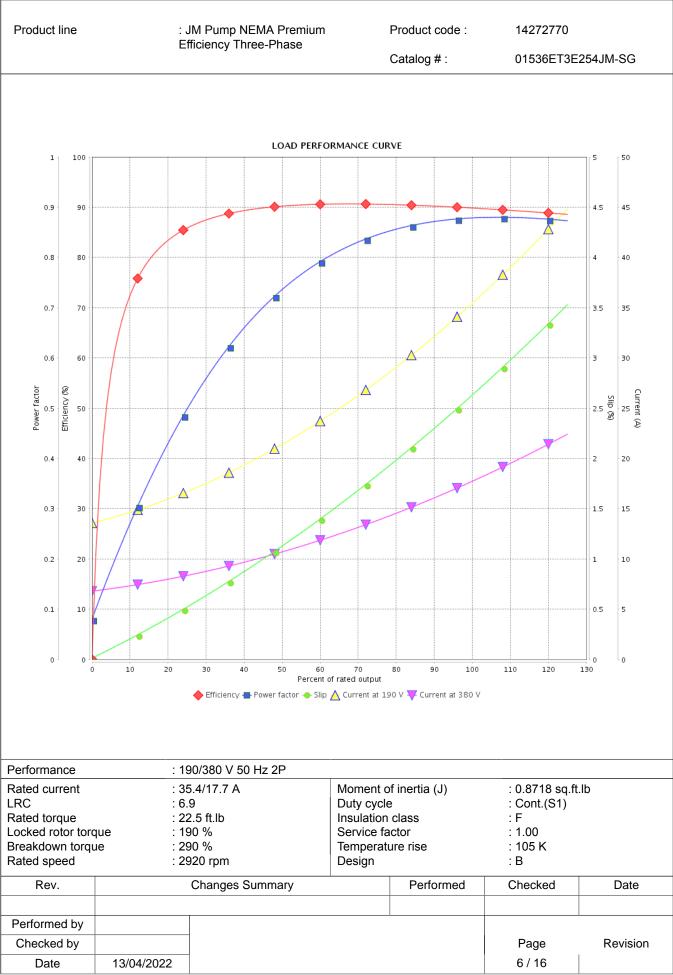
## LOAD PERFORMANCE CURVE

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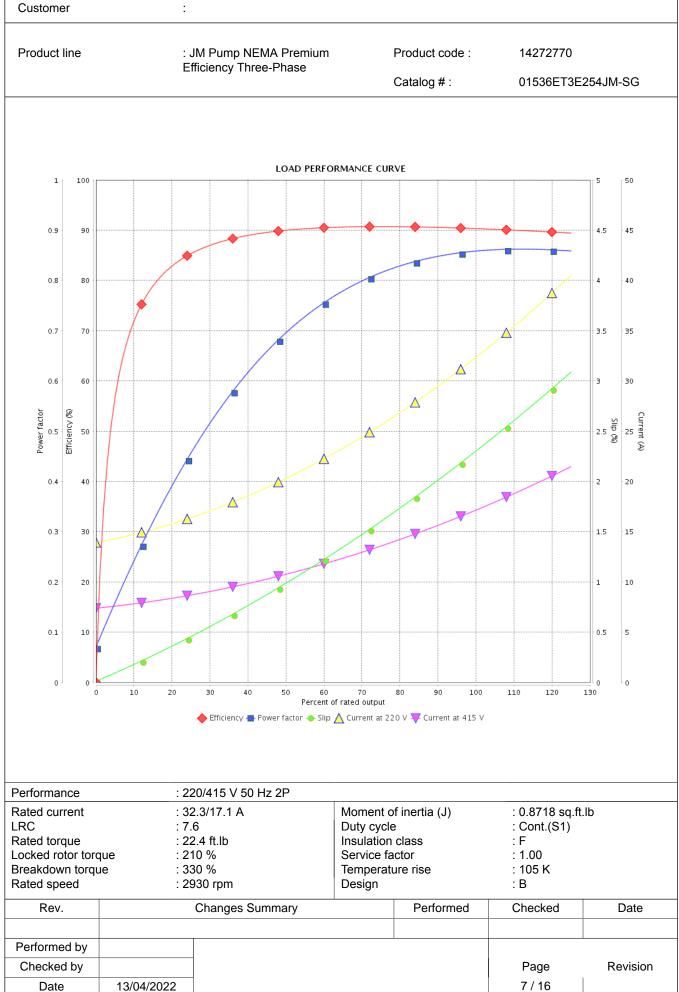
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# LOAD PERFORMANCE CURVE

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# THERMAL LIMIT CURVE

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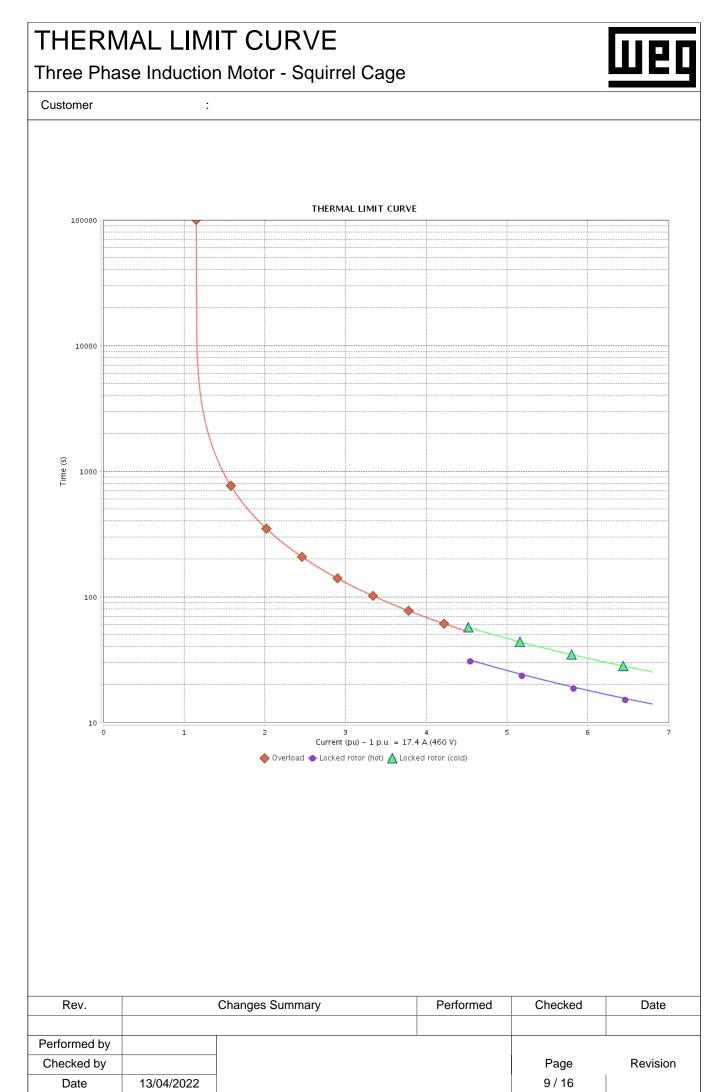


Customer

Product line		: JM Pump NEMA Premium Efficiency Three-Phase			14272770	
				Product code :		
		,	Catalog # :		01536ET3E254JM-SG	
Performance		30/460 V 60 Hz 2P				
Rated current LRC	: 3	4.8/17.4 A 8	Moment of inertia (J) Duty cycle		: 0.8718 sq.ft.lb : Cont.(S1)	
Rated torque : 22.3 ft.lb		2.3 ft.lb	Insulation class		: F	
Locked rotor torque : 200 %		Service factor Temperature rise		: 1.15		
Breakdown torqu Rated speed		00 % 525 rpm	Design	ure rise	: 80 K : B	
			<u> </u>			
Heating constant Cooling constant						
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## THERMAL LIMIT CURVE

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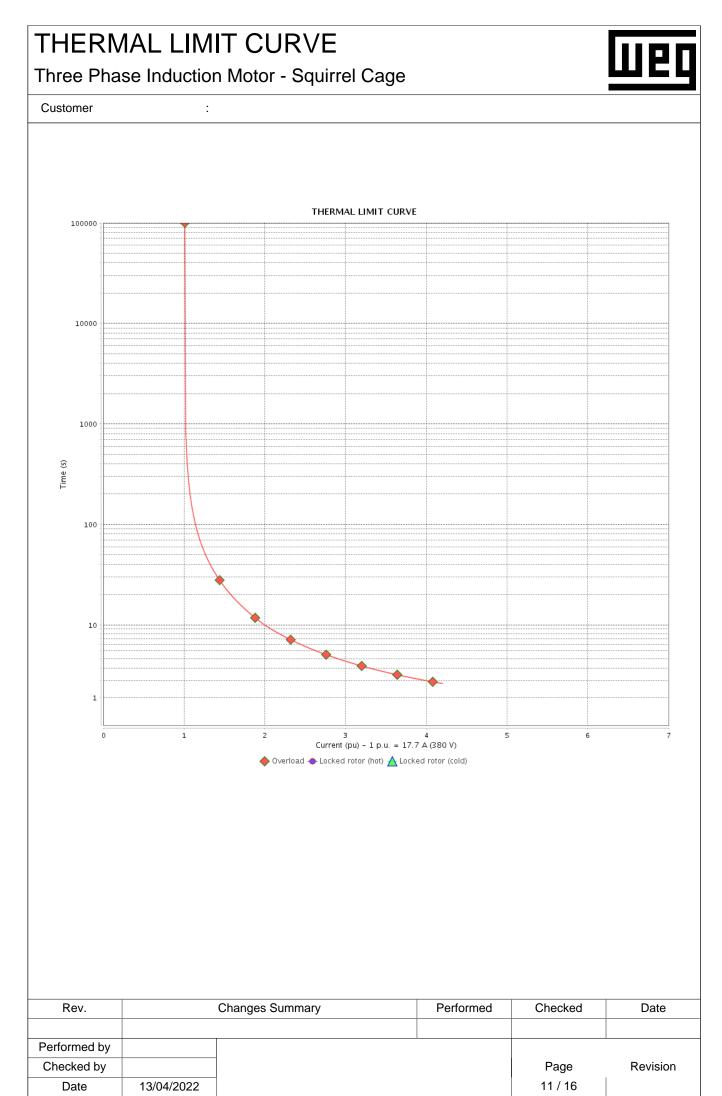


Customer

Product line : JM Pun Efficienc						
		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14272770	14272770
		······, ·····		Catalog # :	01536ET3E2	54JM-SG
Performance		90/380 V 50 Hz 2P				
LRC : Rated torque : Locked rotor torque : Breakdown torque :		5.4/17.7 A .9 2.5 ft.lb 90 % 90 % 920 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.8718 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant			-			
Cooling constant						
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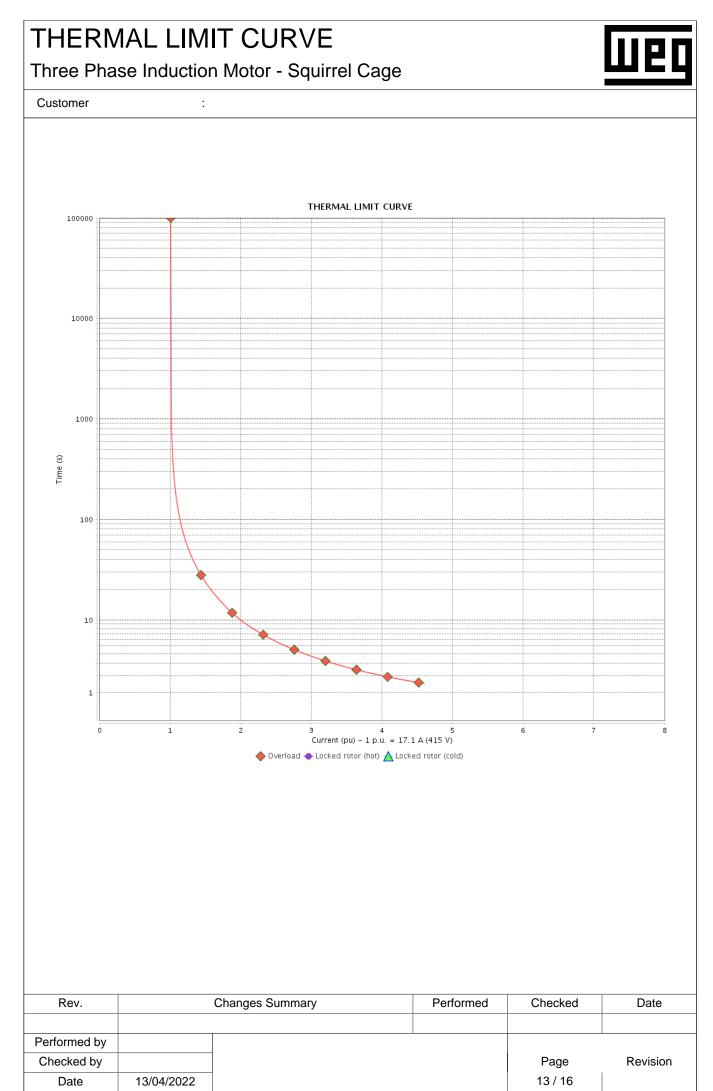
Three Phase Induction Motor - Squirrel Cage

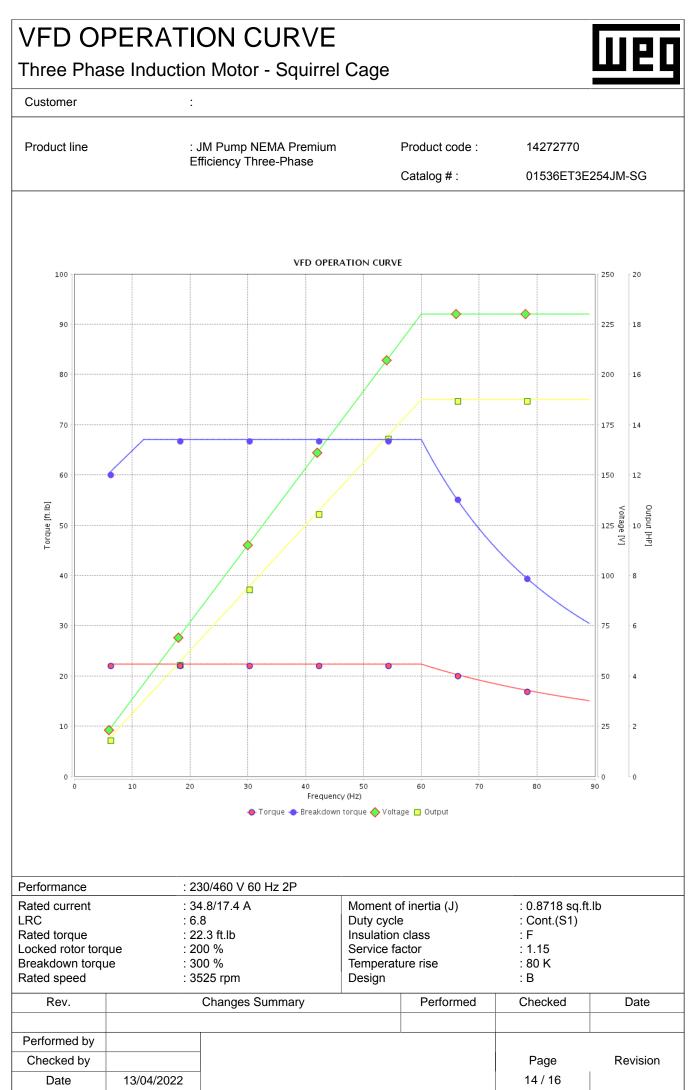
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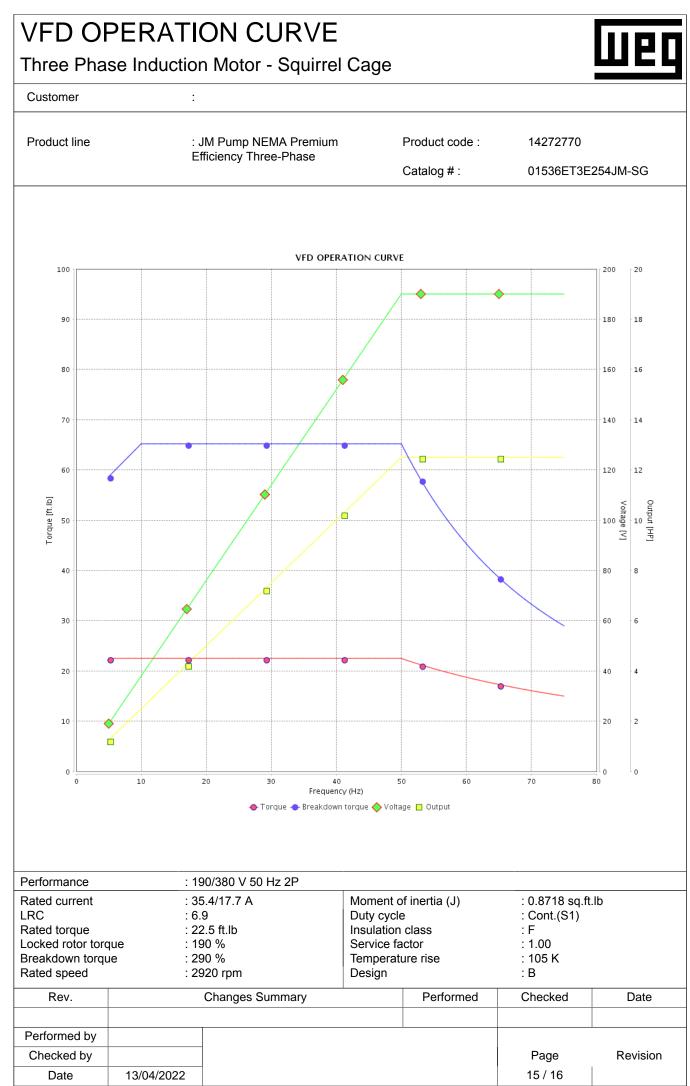
Customer

Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14272770	
				Catalog # :	01536ET3E254JM-SG	
Performance		: 220/415 V 50 Hz 2P				
Rated current		: 32.3/17.1 A	Momonto	f inertia (J)	· 0.9719 cg ft l	h
LRC		: 7.6	Duty cycle		: 0.8718 sq.ft.l : Cont.(S1)	D
Rated torque	:	: 22.4 ft.lb	Insulation	class	: F	
Locked rotor torq		: 210 %	Service fa		: 1.00	
Breakdown torque Rated speed		: 330 % : 2930 rpm	Temperatu Design	life fise	: 105 K : B	
			_ co.g.:		· <u> </u>	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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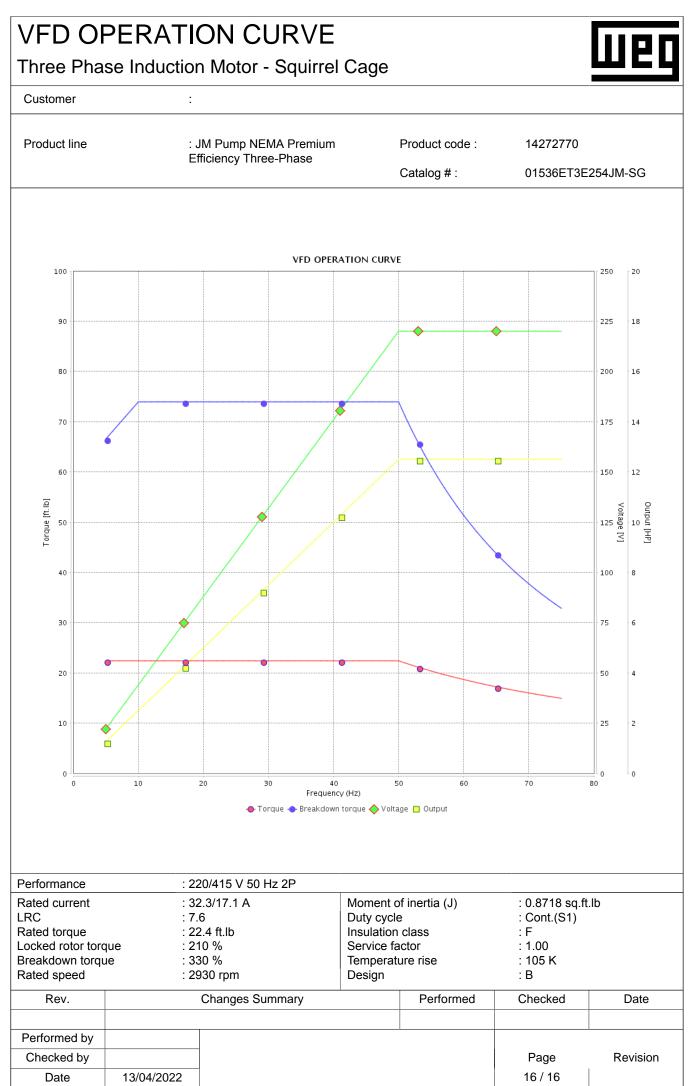




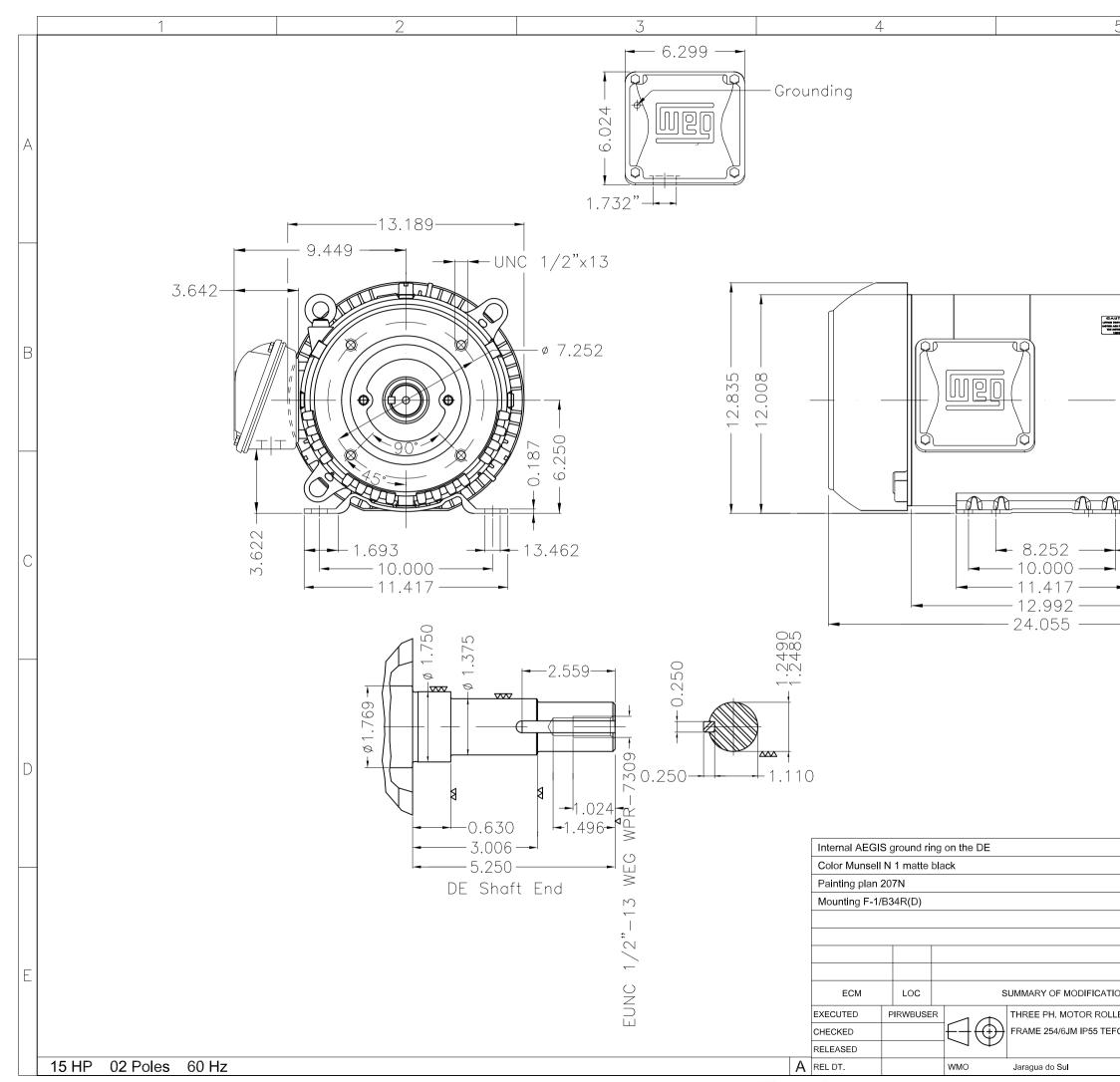
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