# DATA SHEET

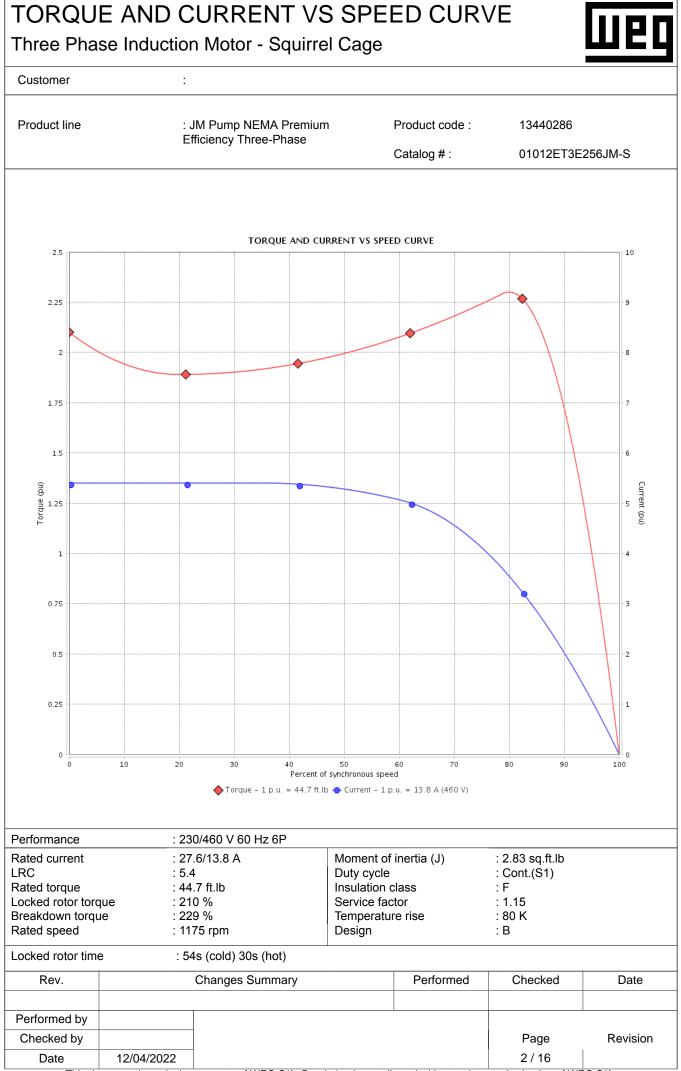
Three Phase Induction Motor - Squirrel Cage

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#### Customer

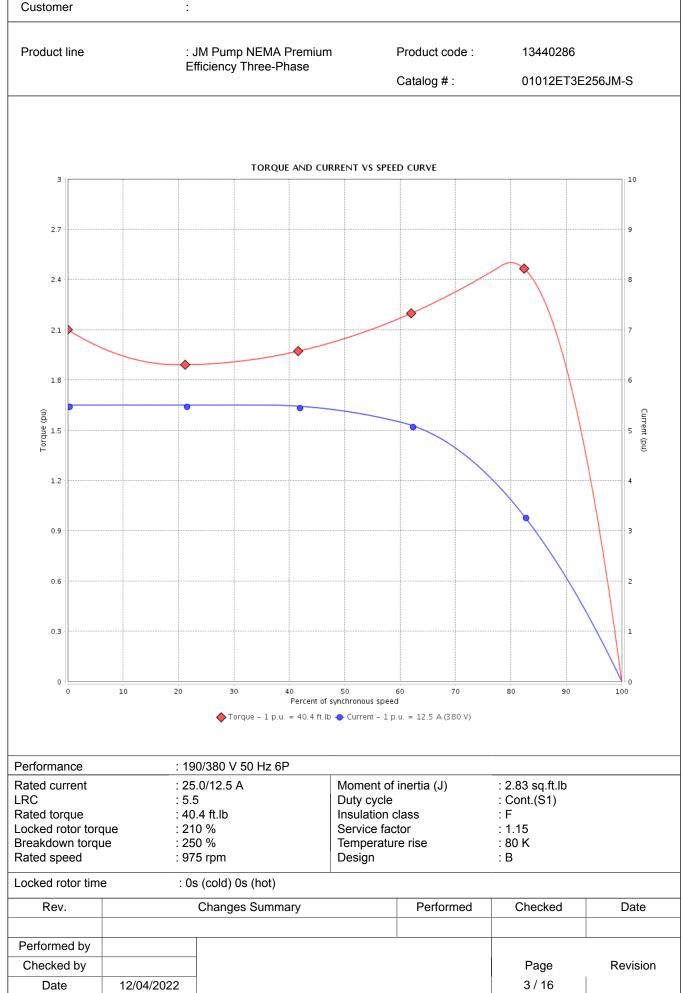
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13440286	
			Catalog # :	01012ET3E2	56JM-S
Frame		: 254/6JM	Cooling method	: IC411 - TEF	С
Insulation class		: F	Mounting	: F-1	
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW ar	nd CCW)
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Li	
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 255 lb	
Protection degre	е	: IP55	Moment of inertia (J)	: 2.83 sq.ft.lb	
Design		: B		·	
Output [HP]		10	7.5	7	.5
Poles		6	6		6
Frequency [Hz]		60	50	5	50
Rated voltage [V]		230/460	190/380	220	/415
Rated current [A]		27.6/13.8	25.0/12.5	23.4	/12.4
L. R. Amperes [A]		149/74.5	138/68.7	140	/74.4
LRC [A]		5.4x(Code G)	5.5x(Code G)	6.0x(C	Code H)
No load current [A	1	14.2/7.12	14.1/7.03		/7.56
Rated speed [RPN		1175	975		80
Slip [%]	-	2.08	2.50		.00
Rated torque [ft.lb]	1	44.7	40.4		0.2
Locked rotor torqu		210	210		5.2
Breakdown torque		210	250		80
Service factor	[,0]	1.15	1.15		.15
Temperature rise		80 K	80 K		) K
Locked rotor time		54s (cold) 30s (hot)	Os (cold) Os (hot)		) 0s (hot)
Noise level <sup>2</sup>		59.0 dB(A)	57.0 dB(A)		dB(A)
	25%	90.0	89.5		8.8
Efficiency (%)	50%	90.2	89.5		9.0
	75%	91.0	90.5		0.4
	100%	91.0	90.2		0.3
	25%	0.33	0.31		28
Power Factor	50%	0.57	0.54		.50
I UWEI FACIUI	75%	0.69	0.66		63
	100%	0.75	0.74	0.	.71
		Drive end Non drive er	nd Foundation loads		
Bearing type		: 6309 Z C3 6208 Z C	3 Max. traction	: 412 lb	
Sealing		: V'Ring Without	Max. compression	: 667 lb	
		Bearing Se			
Lubrication interv	val	: 20000 h 20000 h			
Lubricant amoun		: 13 g 8 g			
Lubricant type	-	: Mobil Polyrex EM			
Notes					
USABLE @208V	30.5A SF 1.	UU SFA 30.5A			
		ncel the previous one, which	These are average values t		
must be eliminate			power supply, subject to the	e tolerances stipula	ated in NEMA
(1) Looking the m	otor from the	e shaft end.	MG-1.		
(2) Measured at 1	m and with t	tolerance of +3dB(A).			
		ct to changes after			
manufacturing pro		-			
(4) At 100% of ful					
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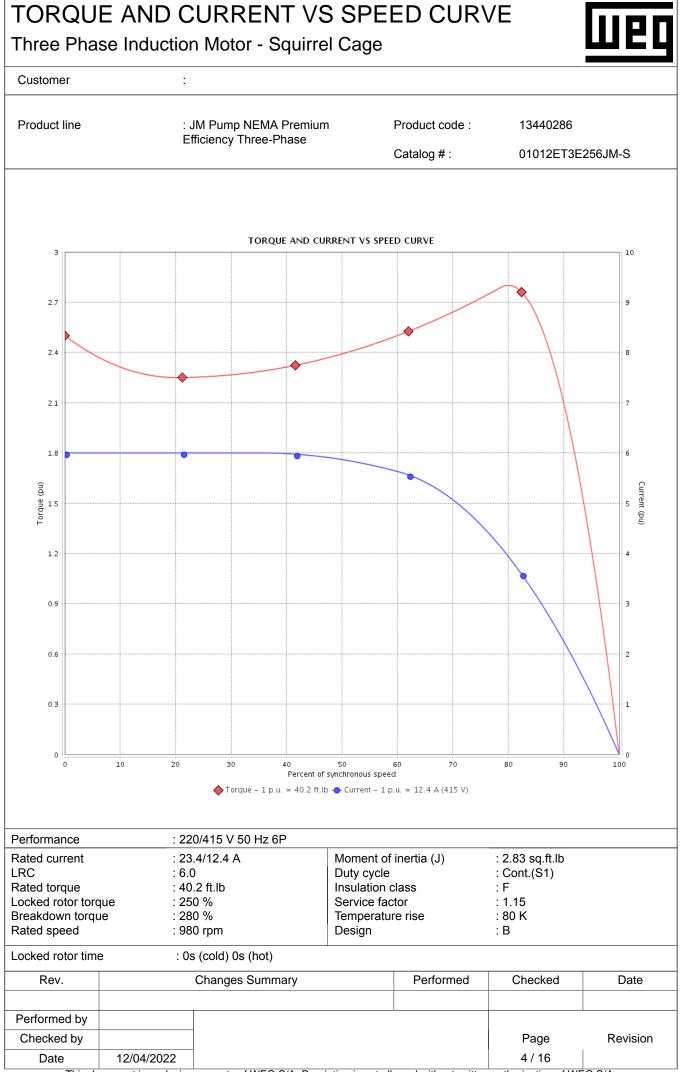
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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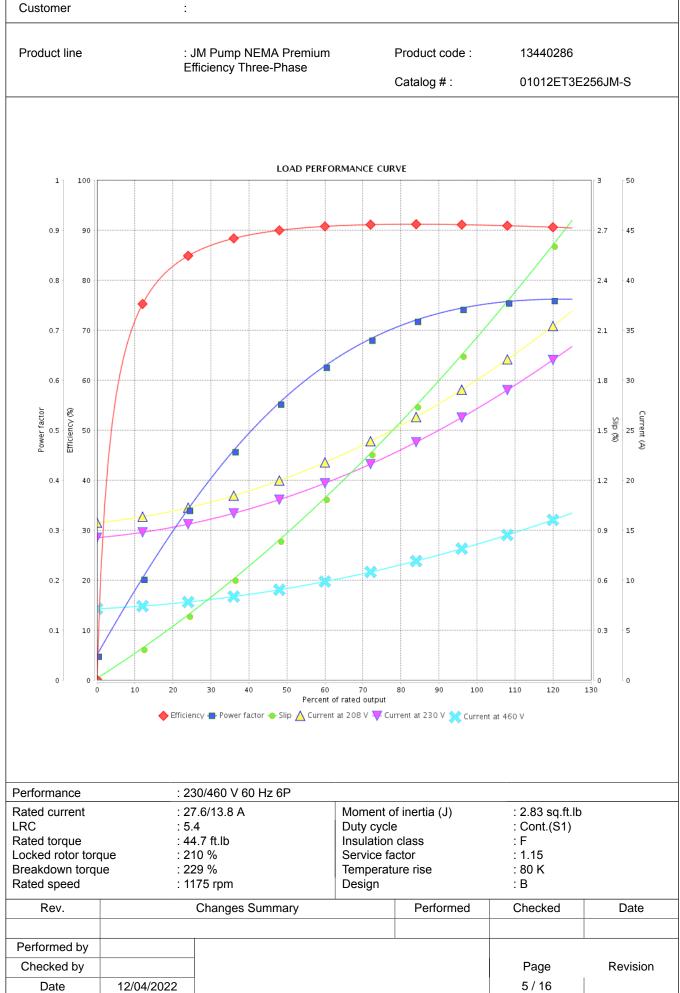
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## LOAD PERFORMANCE CURVE

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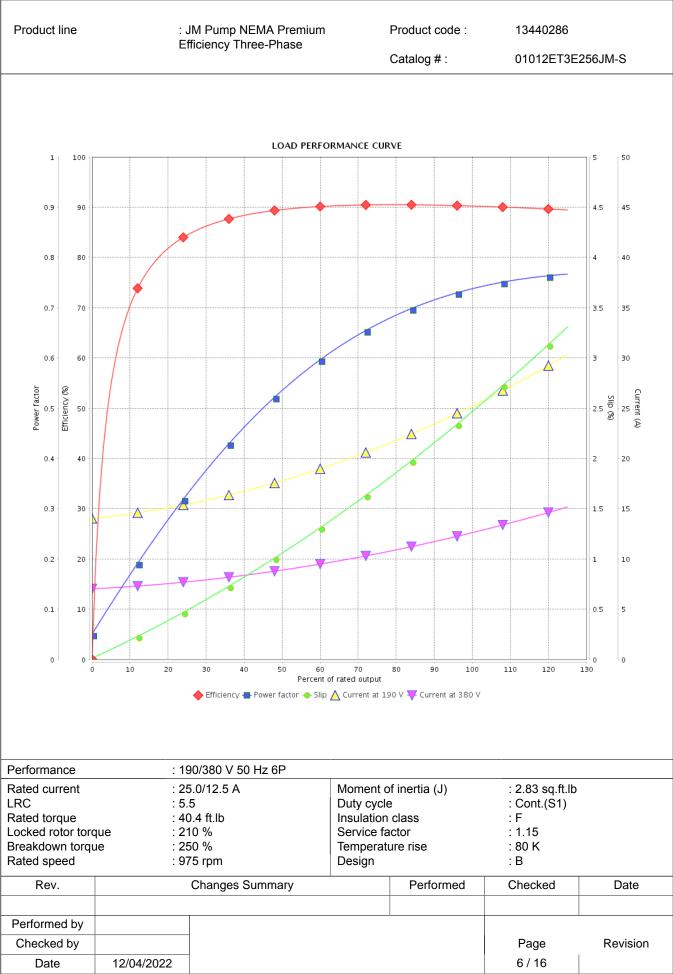
## LOAD PERFORMANCE CURVE

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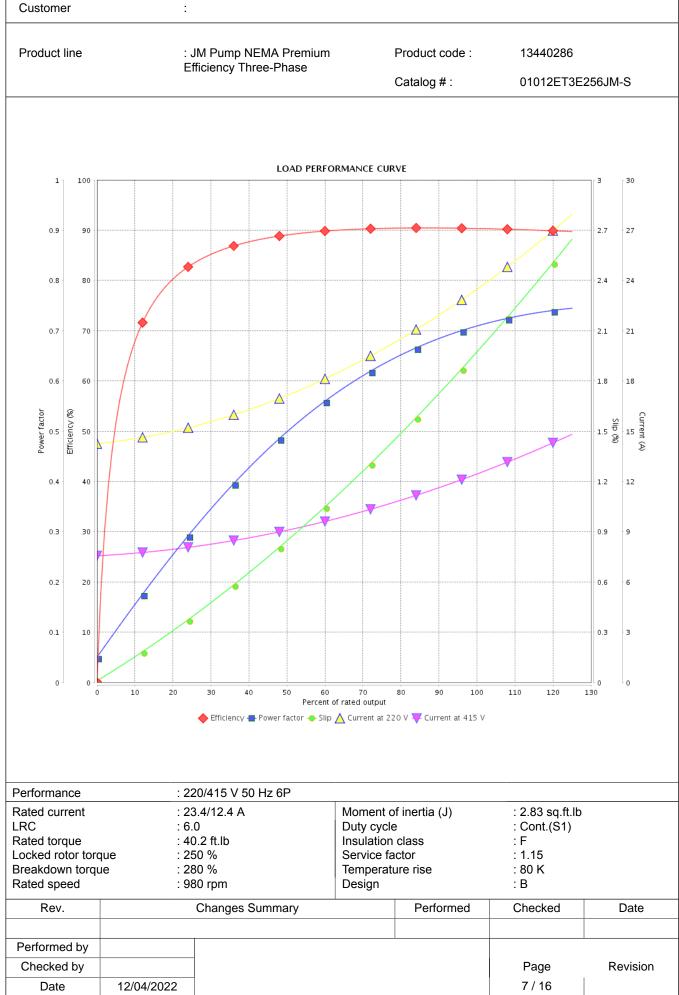
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## LOAD PERFORMANCE CURVE

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## THERMAL LIMIT CURVE

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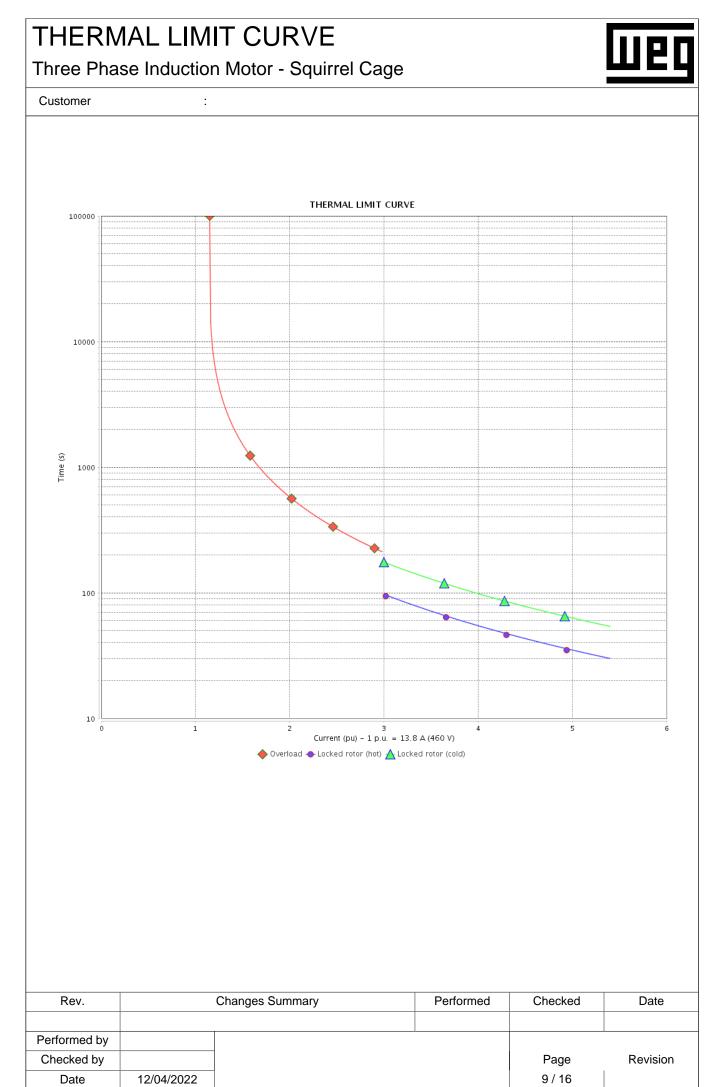


Customer

Product line	:	JM Pump NEMA Premium		Product code :	13440286	
	E	fficiency Three-Phase		Catalog # :	01012ET3E2	56JM-S
<b>D</b>						
Performance		30/460 V 60 Hz 6P			0.00	
Rated current LRC	: 27	7.6/13.8 A 4	Duty cycle	of inertia (J)	: 2.83 sq.ft.lb : Cont.(S1)	
Rated torque		4.7 ft.lb	Insulation	class	: F	
Locked rotor torc	jue : 2'	10 %	Service fa	ictor	: 1.15	
Breakdown torqu		29 %	Temperati	ure rise	: 80 K	
Rated speed	: 11	175 rpm	Design		: B	
Heating constant	t					
Cooling constant	<u> </u>					
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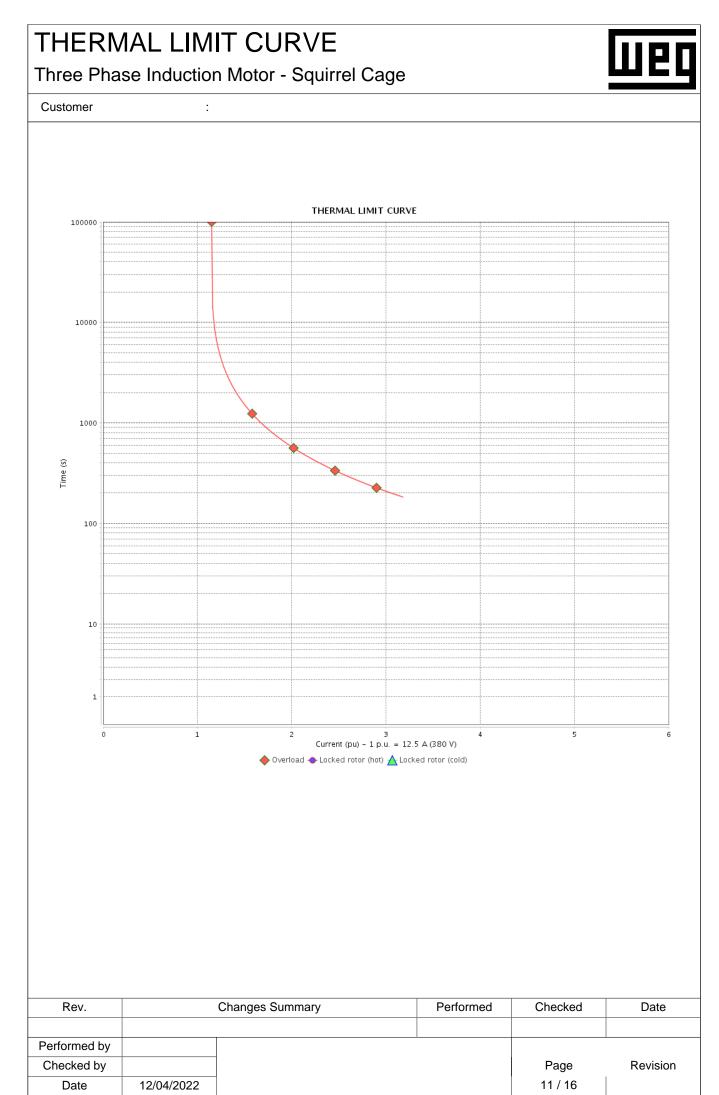


Customer

Product line	:.	JM Pump NEMA Premium		Product code :	13440286	
	E	fficiency Three-Phase		Catalog # :	01012ET3E2	56JM-S
Performance	: 19	90/380 V 50 Hz 6P				
Rated current		5.0/12.5 A		of inertia (J)	: 2.83 sq.ft.lb	
LRC Rated torque	: 5.	5 0.4 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq		10 %	Service fa		: 1.15	
Breakdown torqu	e : 25	50 %	Temperate		: 80 K	
Rated speed	: 97	75 rpm	Design		: B	
Heating constant						
Cooling constant						
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## THERMAL LIMIT CURVE

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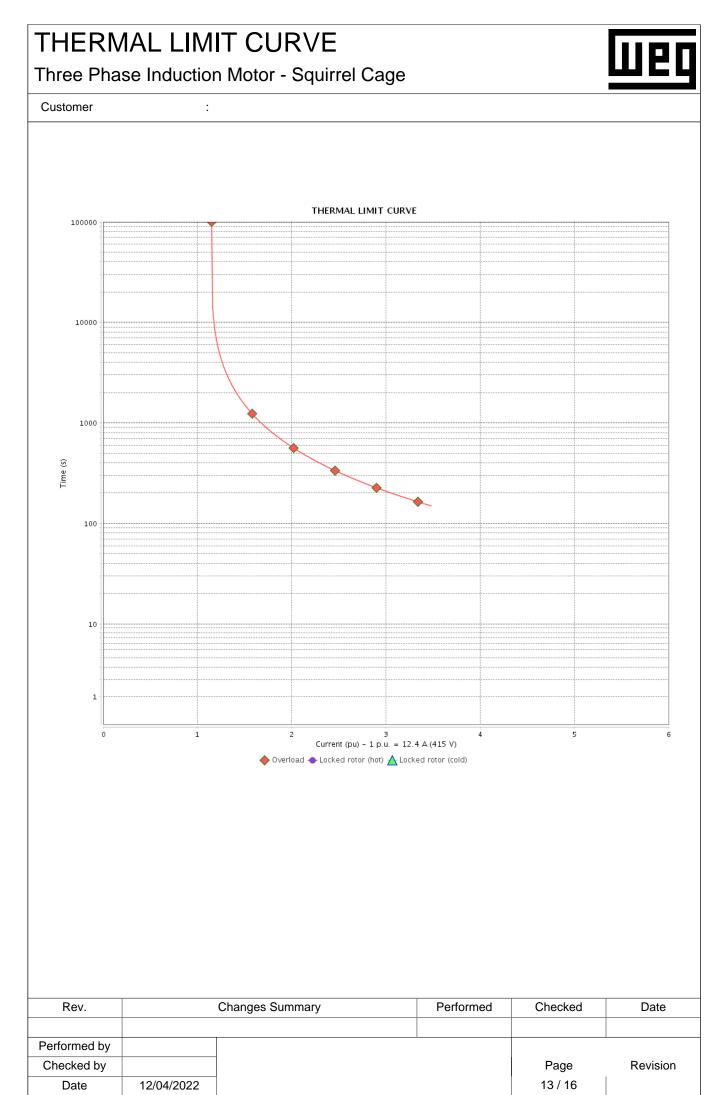


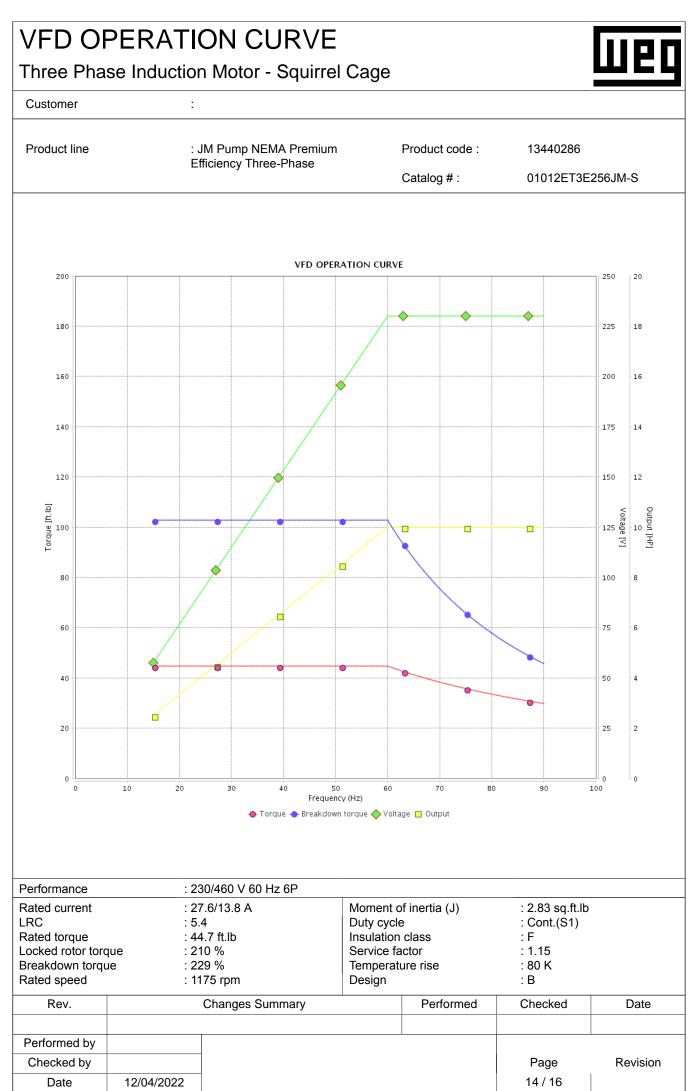
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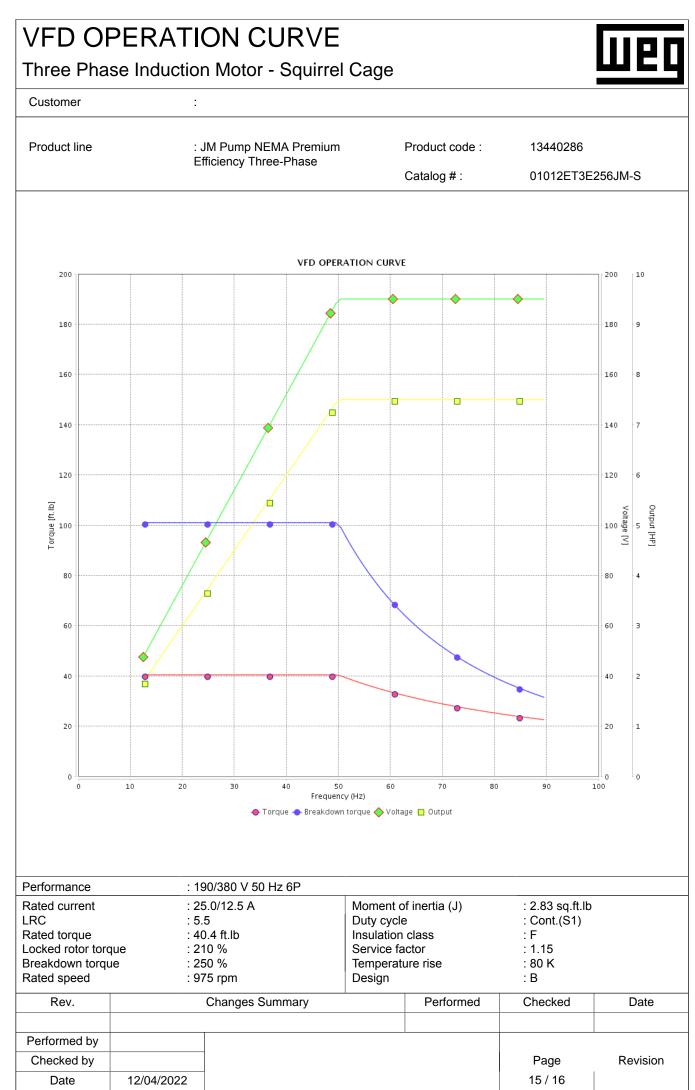
Product line	:.	JM Pump NEMA Premium		Product code :	13440286	
	E	fficiency Three-Phase		Catalog # :	01012ET3E2	56JM-S
Performance	: 22	20/415 V 50 Hz 6P				
Rated current		3.4/12.4 A	Moment o	f inertia (J)	: 2.83 sq.ft.lb	
LRC	: 6.	.0	Duty cycle	9	: Cont.(S1)	
Rated torque		0.2 ft.lb	Insulation		: F	
Locked rotor torq Breakdown torqu		50 % 80 %	Service fa		: 1.15 : 80 K	
Rated speed		80 rpm	Design		: B	
Heating constant			-			
Cooling constant						
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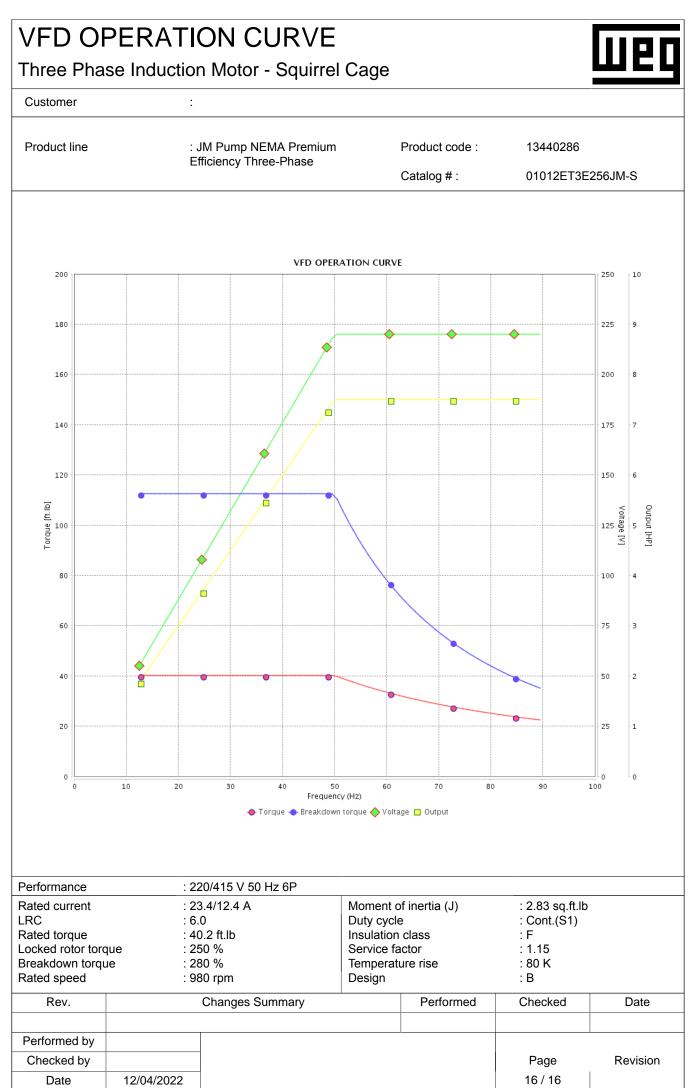
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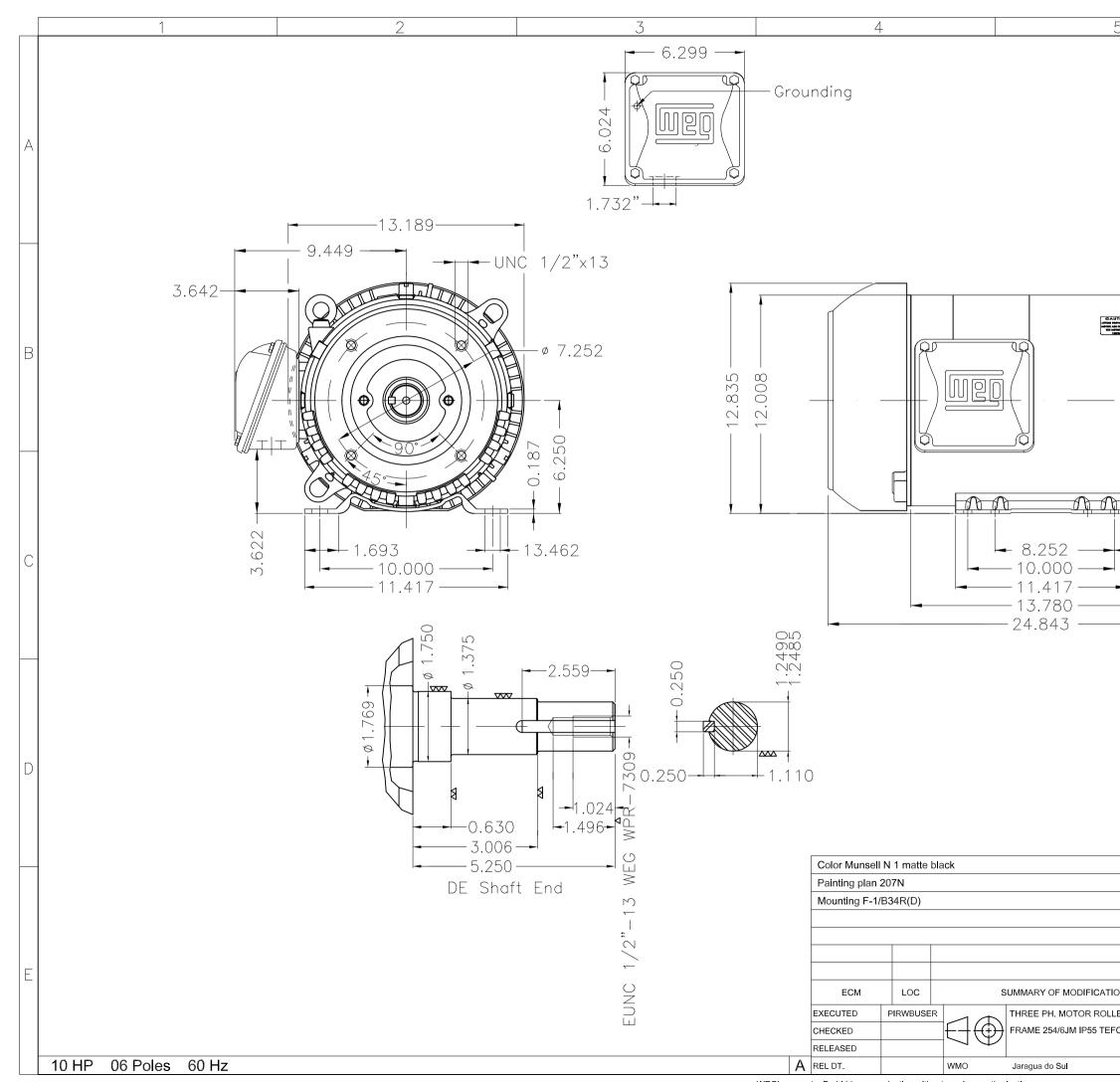
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5	0.25			Ø 8.858		Dimensions in inches
IONS				DATE	VER	
LED STEEL CLOSE ( FC		"PREVI	Έ₩			ņ
		WDD		ШР	<b>q</b>	: A3
Product	t Engineering	SHEET	1 / 1			XME

LIED Remium	COLOR SAFE AREA	ED C C C C C C C C C C C C C C C C C C C
MADE IN MÉXICO MAT: 13440286 CC029A	For 60H	For 60Hz: Class I, Zone 2, IIC
22	Class I, I Div 2 I	Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00)
18MAR2022 S/N: PH 3   Hz 60	HP 10	CT 2:1/VT 1000:1
254/6JM		
2		
1000 m.a.s.l	A 21.0/13.0 SEA 31.7/15.9	
AMB 40°C DES B		
CODE G	PF 0.75	
USABLE @ 208V 30.5A		
NATE RATING: 7.5HP 5	50Hz 190-220/380-415V	5V SF1.15
duty mo	r For 60Hz use on VPWM	1000:1 VT. 4:1 CT
DE 6309-Z-C3 ODE 6208-Z-C3	MOBIL POLYREX EM	2000h
<b>€</b> T10 <b>⊕</b> T11 <b>⊕</b> T12	T10 T11 T12	T1-BLU T2-WHT
U 014 0T5 0T6	T4 OT5 OT6	
		T5-BLK T6-GRY T7-PNK T8-RED
		T9-BRK RED
		T11-GRN T12-VLT
INTERCHANGE ANY TWO LIVE WREES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local and national electrical and schortes and vertical electrical shocks. Disconneet power source before servicing unit.	HANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WING: Motor must be grounded in accordance with local and andoinal electrical locate or prevent electrical electrical shocks. Disconnect power source before servicing unit.	R R
A AKEKTISSEMENT: Le moteur doit être mis a la terre conformément aux codes électriques locaux et nationaux afin d'énriter tout choo électrique grave. Déconnectez l'allmentation avant l'entrefon de la machine.	AVERTISSEMENT: Le moteur doit être mis à la terre <sup>1</sup> odes éléctriques locaux et nationaux afin d'éviter tou e. Déconnectez l'alimentation avant l'entreflen de la m	<b>HONOTONIA</b> achine.