DATA SHEET

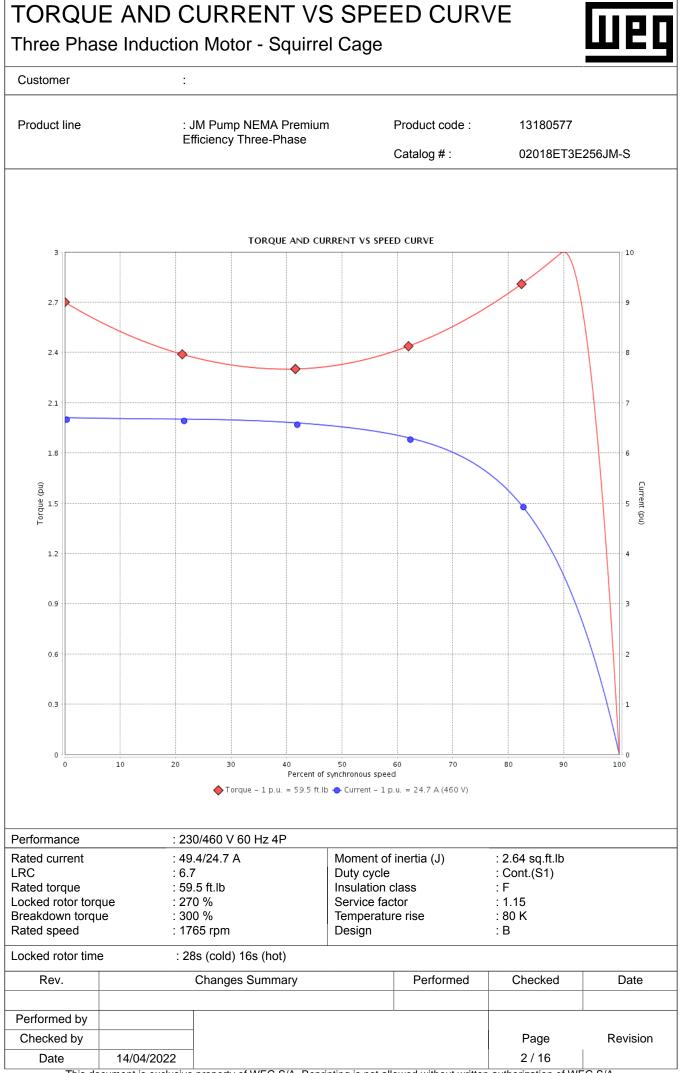
Three Phase Induction Motor - Squirrel Cage

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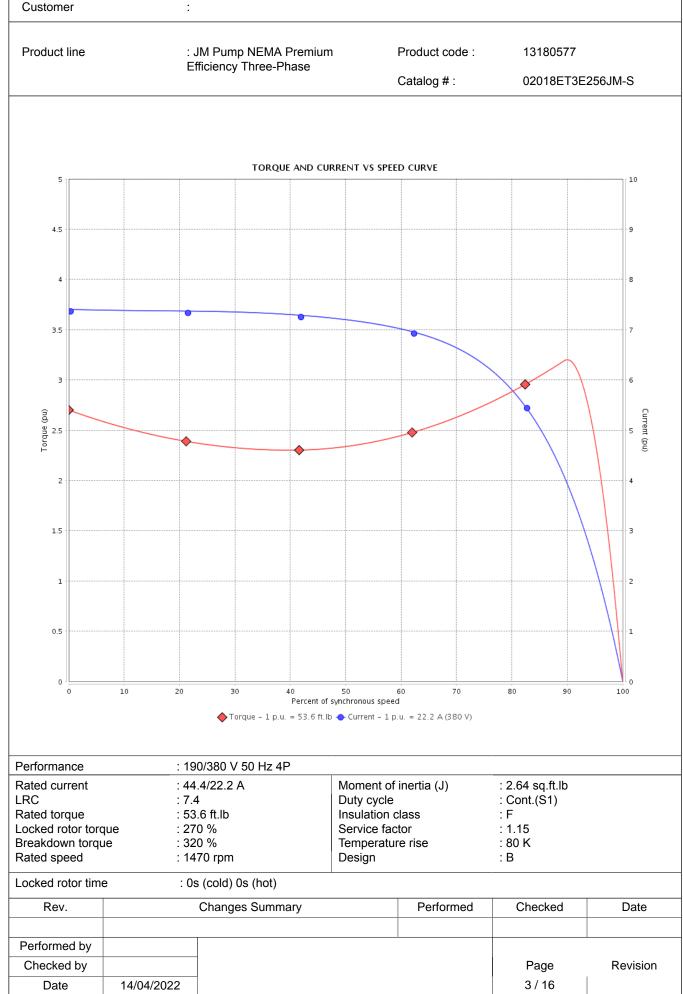
Product line		: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13180577		
		LINCIENCY THEE-FIIdSE	Catalog # :	02018ET3E256JM-S		
Frame		: 254/6JM	Cooling method	: IC411 - TEFC		
Insulation class		: F	Mounting	: F-1		
Duty cycle		: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 257 lb		
Protection degre	e	: IP55	Moment of inertia (J)	: 2.64 sg.ft.lb		
Design		: B		·		
Output [HP]		20	15	15		
Poles		4	4	4		
Frequency [Hz]		60	50	50		
Rated voltage [V]		230/460	190/380	220/415		
Rated current [A]		49.4/24.7	44.4/22.2	41.3/21.9		
. R. Amperes [A]		331/165	329/164	330/175		
LRC [A]		6.7x(Code H)	7.4x(Code J)	8.0x(Code K)		
No load current [A	1	22.2/11.1	21.9/10.9	22.5/11.9		
Rated speed [RPN		1765	1470	1475		
Slip [%]		1.94	2.00	1.67		
Rated torque [ft.lb]	1	59.5	53.6	53.4		
Locked rotor torque		270	270	310		
		300	320	310		
Breakdown torque	[70]					
Service factor		1.15	1.15	1.15		
Temperature rise		80 K	80 K	80 K		
Locked rotor time		28s (cold) 16s (hot)	0s (cold) 0s (hot)	Os (cold) Os (hot)		
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)		
	25%	91.0	91.8	91.1		
Efficiency (%)	50%	91.7	91.6	91.1		
	75%	92.4	92.2	92.1		
	100%	93.0	91.8	91.9		
	25%	0.40	0.37	0.34		
	50%	0.66	0.63	0.58		
Power Factor	75%	0.77	0.75	0.71		
	100%	0.82	0.82	0.79		
		Drive end Non drive end	J Foundation loads			
Bearing type		: 6309 Z C3 6208 Z C3	-	: 794 lb		
Sealing		: V'Ring Without				
Seamy		. V Ring Without Bearing Sea	Max. compression	: 1051 lb		
Lubrication interv		: 20000 h 20000 h	**			
Lubricant amoun		: 13 g 8 g				
	it.	: Mobil Polyrex EM				
Lubricant type						
Notes USABLE @208V	54.6A SF 1.	00 SFA 54.6A				
This are in the set		ncel the previous one, which		based on tests with sinusoidal		
	notor from the		power supply, subject to the MG-1.	e tolerances stipulated in NEMA		
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro-	weight subjeo ocess.	to changes after				
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	weight subjeo ocess.	ct to changes after		Oberland D. (
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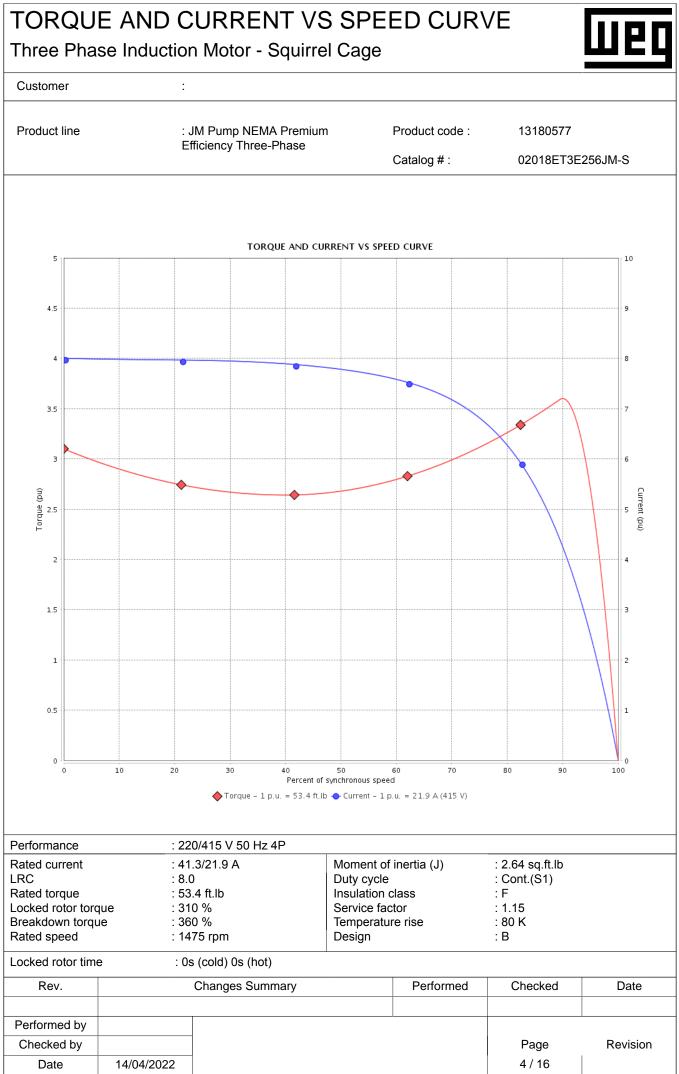
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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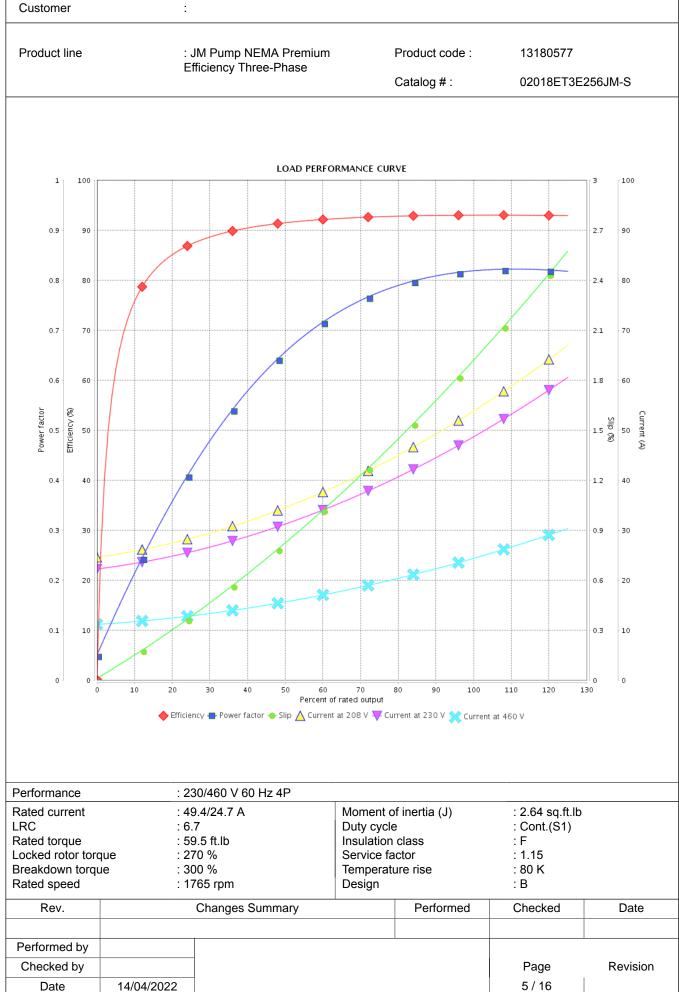
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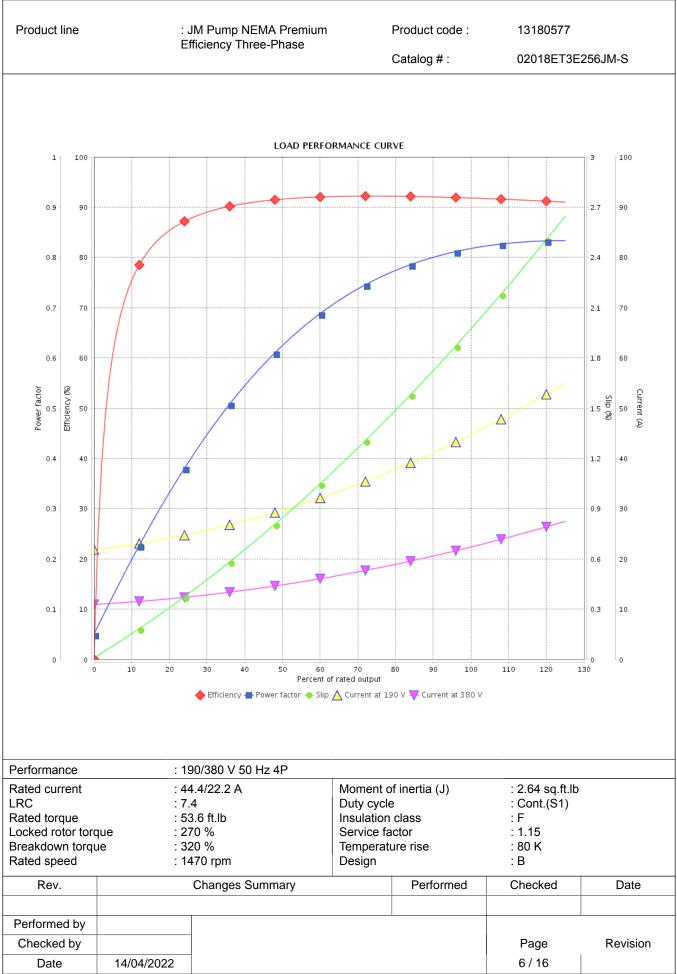
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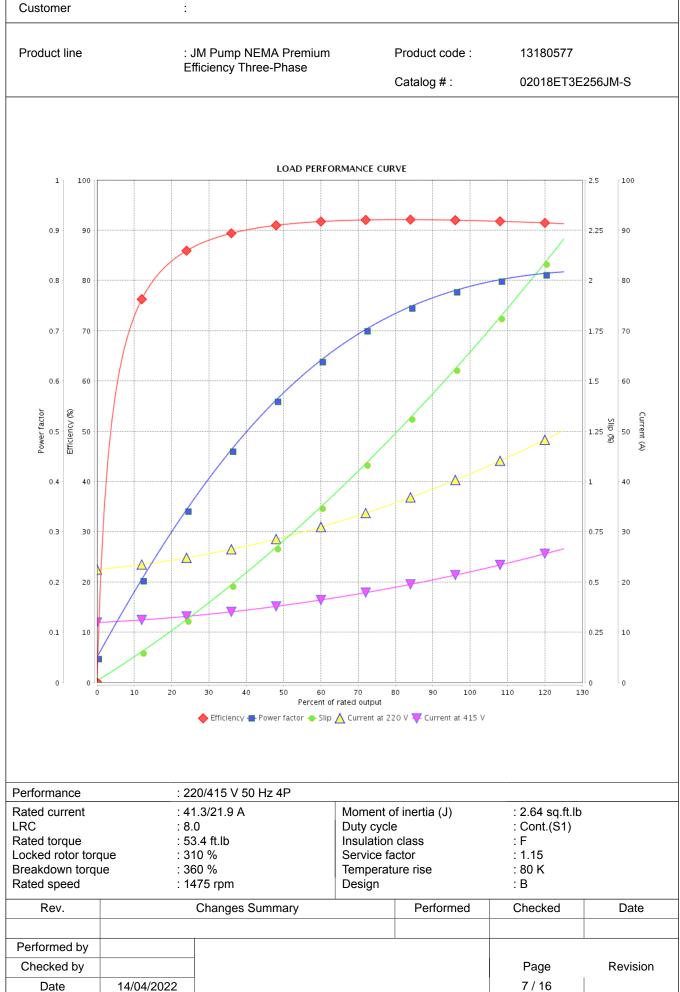
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THERMAL LIMIT CURVE

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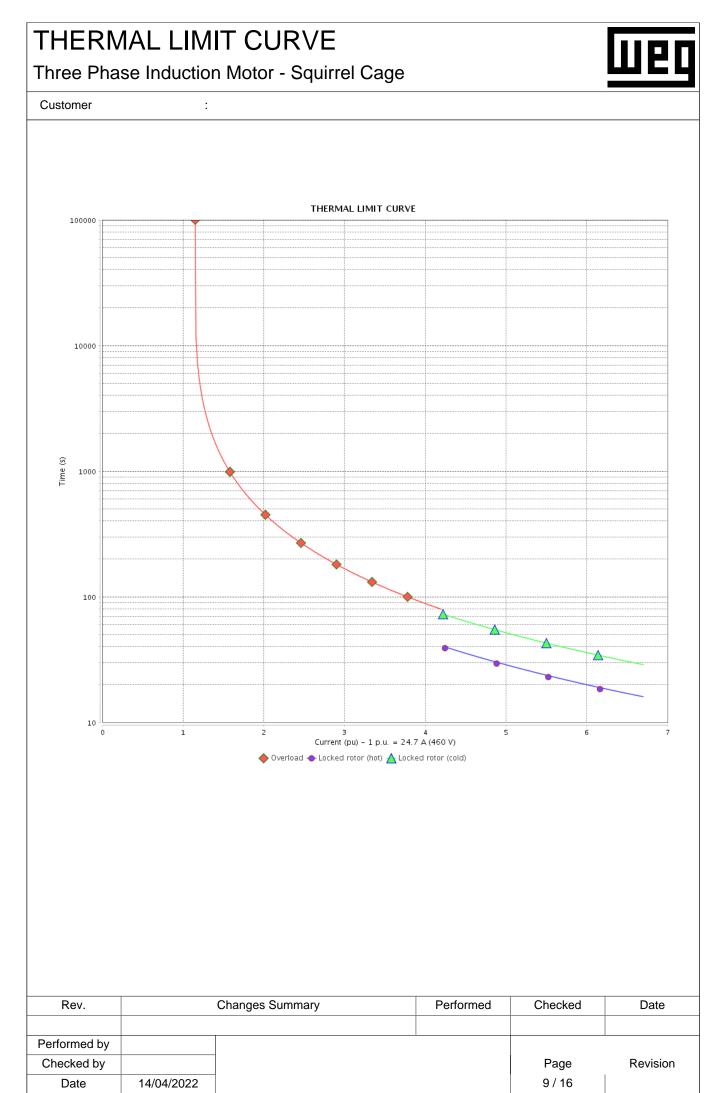


Customer

Product line	: c Et	JM Pump NEMA Premium fficiency Three-Phase		Product code : Catalog # :	13180577 02018ET3E256JM-S			
Performance	: 23	30/460 V 60 Hz 4P						
LRC :		9.4/24.7 A 7 9.5 ft.lb	Moment o Duty cycle Insulation	f inertia (J) e class	: 2.64 sq.ft.lb : Cont.(S1) : F			
Locked rotor torque : 27 Breakdown torque : 30		70 % 00 % 765 rpm	Service fa Temperatu Design	ctor	: 1.15 : 80 K : B			
Heating constan	t		Soligh					
Cooling constan	t							
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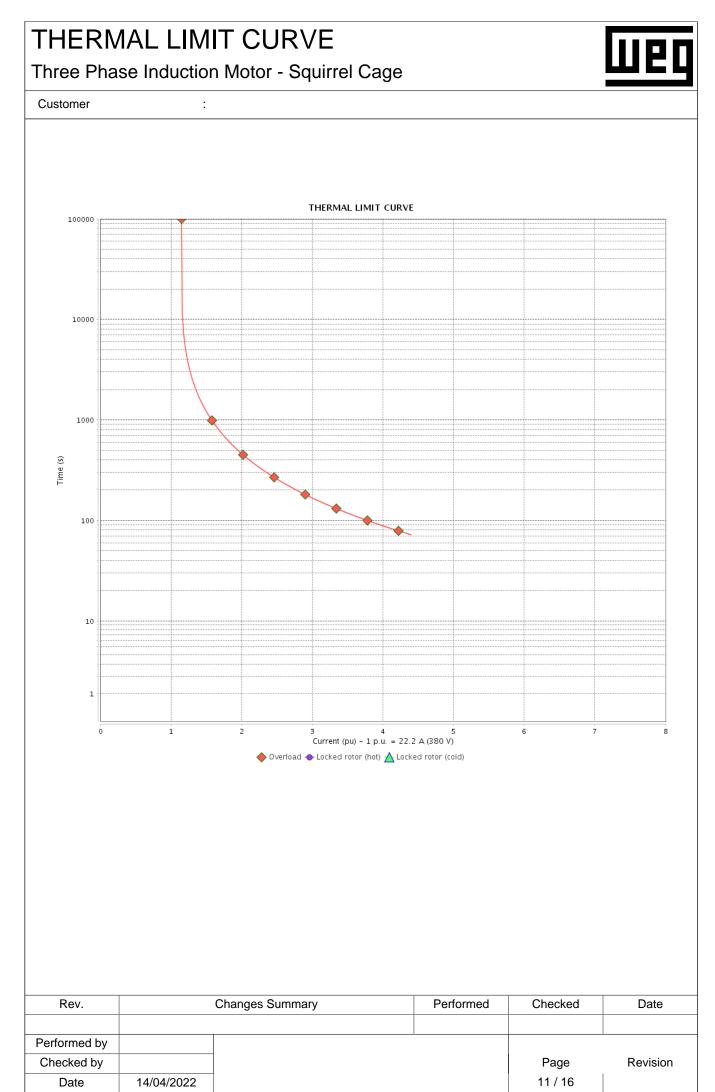


Customer

Product line	: c E1	JM Pump NEMA Premium fficiency Three-Phase		Product code : Catalog # :	13180577 02018ET3E2	13180577 02018ET3E256JM-S			
Performance		90/380 V 50 Hz 4P							
LRC : Rated torque : Locked rotor torque : Breakdown torque :		4.4/22.2 A 4 3.6 ft.lb 70 % 20 % 470 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.64 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
Heating constant	t								
Cooling constant									
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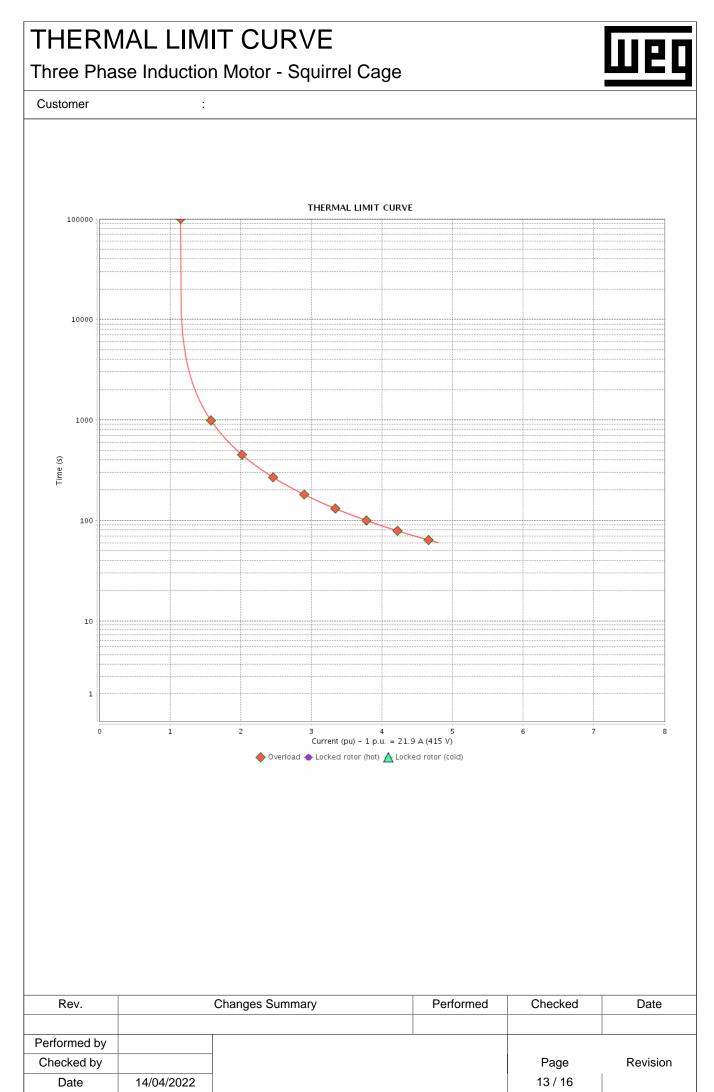


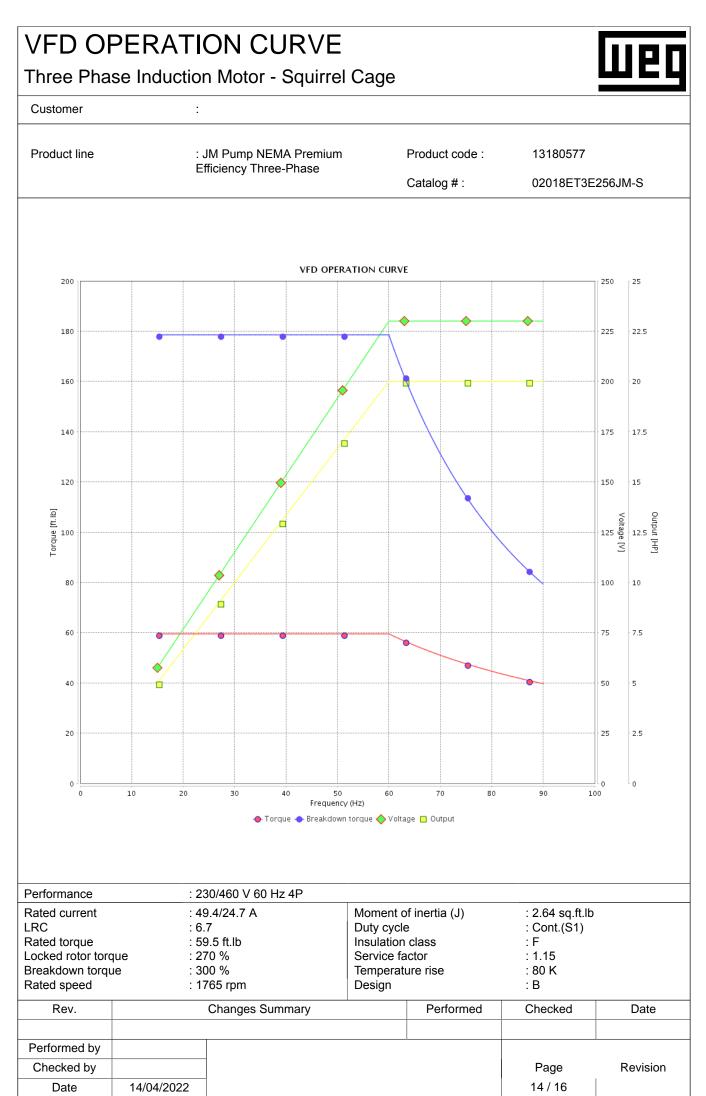
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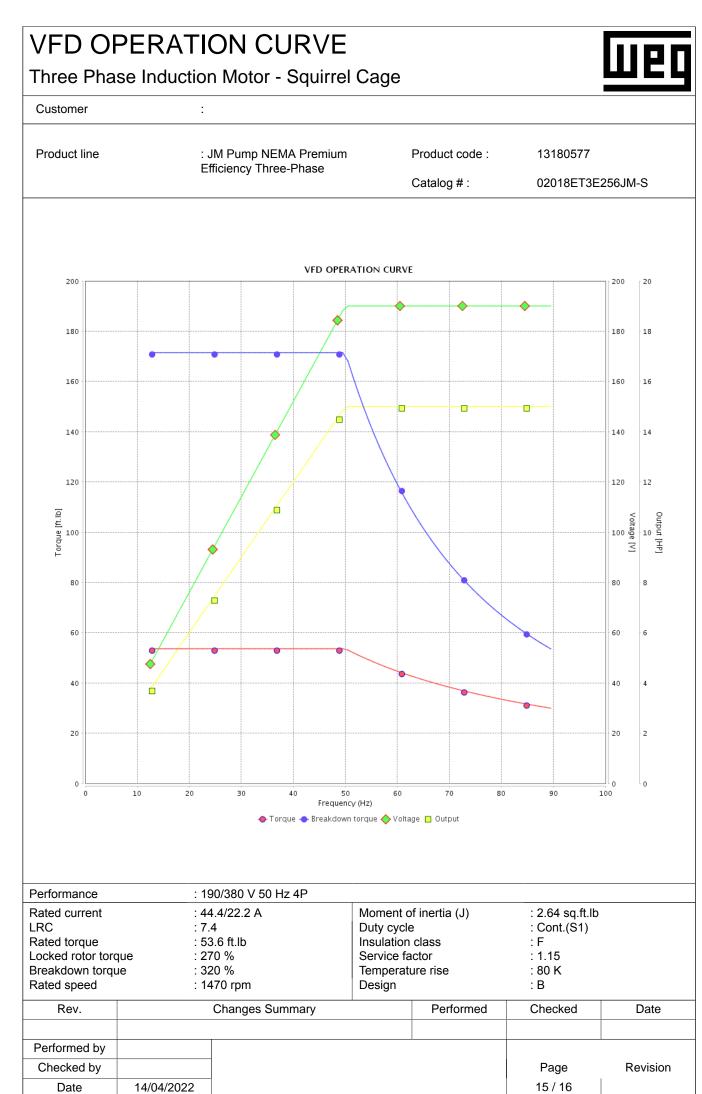
Rated current LRC: 41.3/21.9 A : 8.0Moment of inertia (J) Duty cycle: 2.64 sq.ft.lb : Cont.(S1)Rated torque Locked rotor torque: 53.4 ft.lb : 53.4 ft.lbInsulation class: FLocked rotor torque Breakdown torque: 310 % : 360 %Service factor Temperature rise: 1.15 : 80 K DesignRated speed: 1475 rpmDesign: BHeating constant Cooling constantChanges SummaryPerformedCheckedDatePerformed by Checked byPageRevision	Product line	: C Et	JM Pump NEMA Premium fficiency Three-Phase		Product code : Catalog # :	13180577 02018ET3E2	13180577 02018ET3E256JM-S		
Rated current LRC: 41.3/21.9 A : 8.0Moment of inertia (J) Duty cycle: 2.64 sq.ft.lb : Cont.(S1)Rated torque Locked rotor torque: 53.4 ft.lb : 53.4 ft.lbInsulation class: FLocked rotor torque Breakdown torque: 310 % : 360 %Service factor Temperature rise: 1.15 : 80 K DesignRated speed: 1475 rpmDesign: BHeating constant Cooling constantChanges SummaryPerformedCheckedDatePerformed by Checked byPageRevision									
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LRC : 8.0 Duty cycle : Cont.(S1) Rated torque : 53.4 ft.lb Insulation class : F Locked rotor torque : 310 % Service factor : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Breakdown torque : 1475 rpm Design : B Heating constant Changes Summary Performed Checked Date Performed by	Performance	: 22	20/415 V 50 Hz 4P						
Cooling constant Performed Checked Date Rev. Changes Summary Performed Checked Date Performed by Image: Checked by Image: Checked by Page Revision	LRC : Rated torque : Locked rotor torque : Breakdown torque :		0 3.4 ft.lb 10 % 60 %	Duty cycle Insulation Service fa Temperate	e class ctor	: Cont.(S1) : F : 1.15 : 80 K			
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Performed by Performed by Page Revision	Cooling constan	t							
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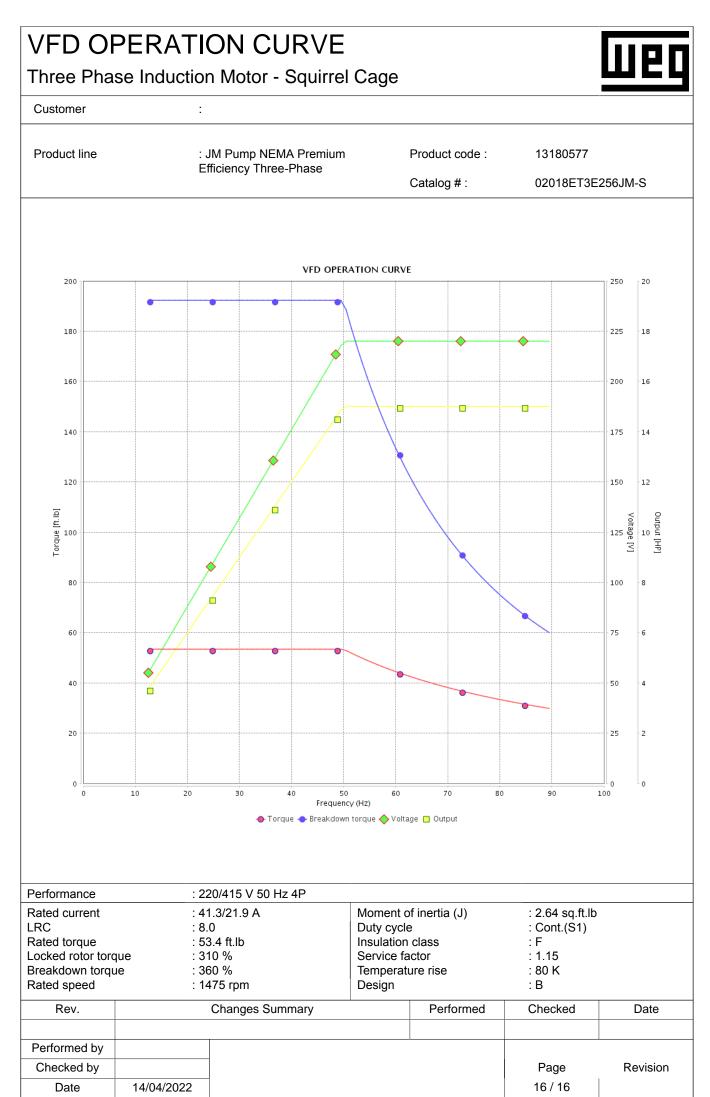
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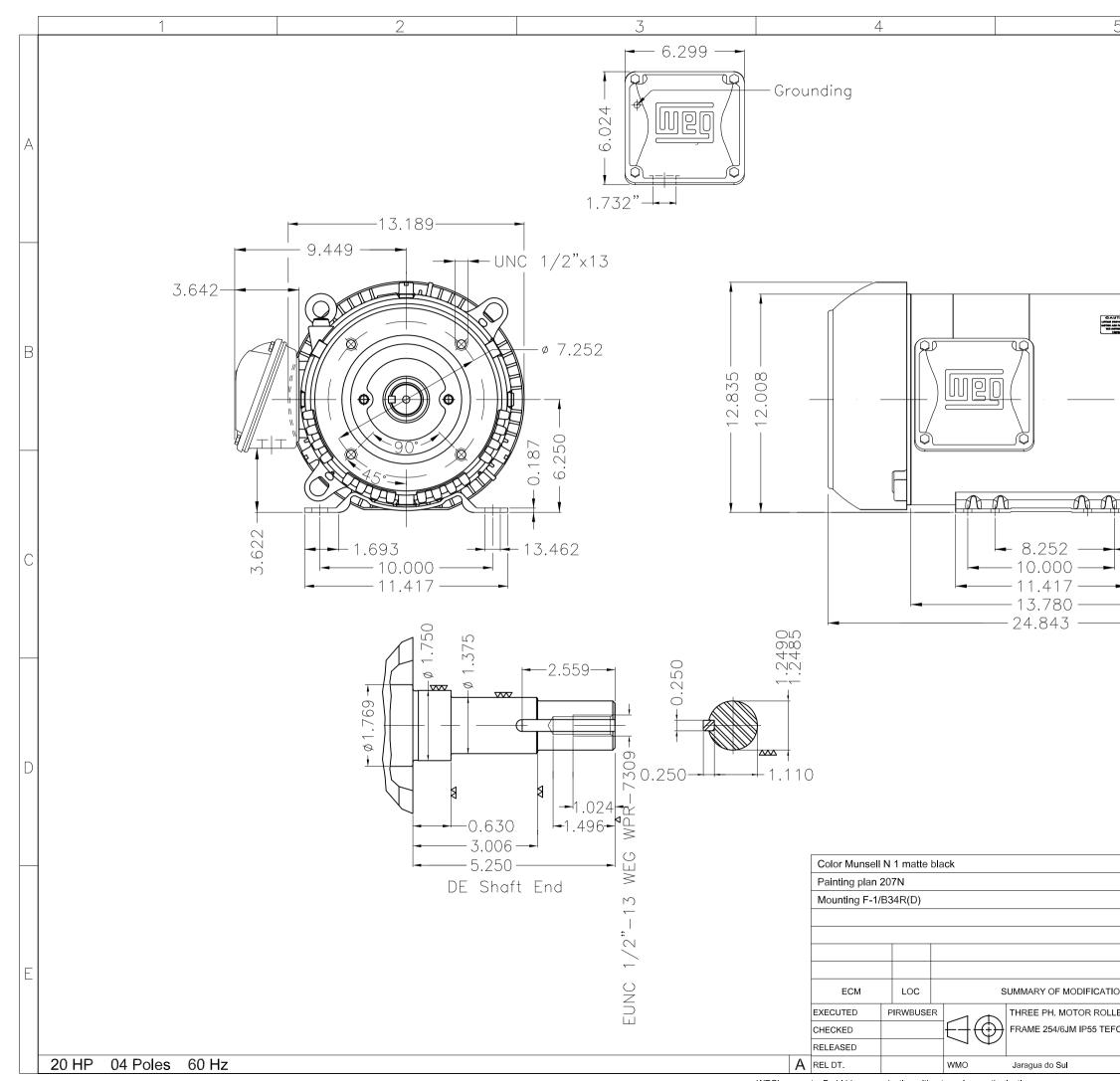
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Produc	t Engineering		1 / 1			XME
Produc	t Engineering		· / ·			×

CON 13PT9 CON USTED FOR SAFE AREA Energy Verified	For 60Hz: Claas I, Zone 2, IIC Class I, DIV2, Gr. A,B.G.D. 73 DIV 2 Inverter Dury (5F1.00) CT 2:1V/T 1000:1	20 15		56.8/28.4 1.15	0.82	1/05 A EFF 93.0%	190-220/380-415V SF1.15 M EFF 91.8% (IE3) IEC 60034-1	M 1000:1 VT,	MOBIL POLYREX EM 20000h	10011101110112 11-BLU 12-WHT 14015016 13-ORG 14-YEL 15-BLK 15-GRY	7 0 T3 0 T3-PNK T8-RED T9-BRK RED	1 1 1 2 13 110-CURRY 1 1 11-GRN 112-VLT 1 2 13 111-GRN 112-VLT	EVERSE THE ROTATION n accordance with local revent reforms eventual to before servicing unit.	r dolt être mis à la terre de la machine. L'ACCTH J adonaux afin d'éviter tout n avant l'entreden de la machine.
	MADE IN MERICO MAT: 13180577 CC029A WO1.TEOICOXON JM020404NPW01 22FE2022 SIN:	PH 3 Hz 60 HP FR 254/6JM KW	DUTY CONT. V ALT 1000 m.a.s.I A	INS CL F AT 80K IP55 SFA	TEFC CODE	USABLE @ 208V 54.6A NEMA \$F1.00 NOM. EFF	ALTERNATE RATING: 15HP 50Hz 44.4-40.7/22.2-21.6A 1470RPM	For safe area-Inverter duty motor For	DE 6309-Z-C3 ODE 6208-Z-C3 MC		LI LI	∳ ^{T1} ∳ ^{T2} ∲ ^{T3} 1 2 L1 L2 L3 2	INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Ancorn with a grounded in a coordance with local and national electrical codes to prevent service electrical shocks. Disconnect power source before servicing unit.	Are more than the second of the motion of the more and the second or the more conformement aux codes electriques locaux et nationaux afin d'éviter tout choc électrique grave. Décomectes l'alimentation avant l'entrefen de la machine