### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 13453166 Efficiency Three-Phase Catalog #: 00718OT3V213JM-S Frame : 213/5JM Locked rotor time : 23s (cold) 13s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 21.3/10.6 A : IC01 - ODP L. R. Amperes : 153/76.6 A Mounting : F-1 : 7.2x(Code H) : Both (CW and CCW) LRC Rotation<sup>1</sup> : 10.1/5.05 A No load current Noise level<sup>2</sup> : 59.0 dB(A) Rated speed : 1770 rpm Starting method : Direct On Line Slip : 1.67 % Approx. weight<sup>3</sup> : 127 lb Rated torque : 22.3 ft.lb Locked rotor torque : 240 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.03 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 89.5 91.0 : 338 lb Efficiency (%) 88.6 90.2 Max. traction Power Factor 0.39 0.77 0.82 : 465 lb 0.65 Max. compression Drive end Non drive end Bearing type 6209 ZZ 6206 ZZ Sealing Without Bearing Seal Without Bearing Seal

Lubrication interval

Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

(4) At 100% of full load.

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



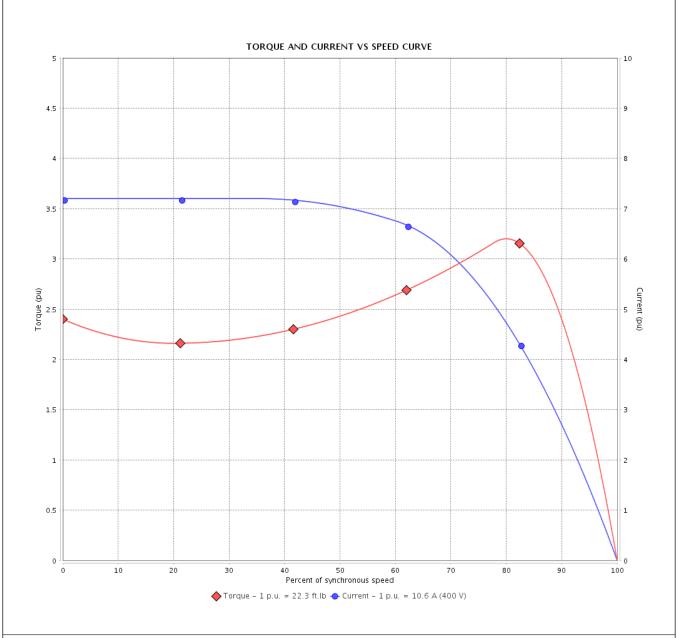
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13453166

Catalog #: 00718OT3V213JM-S



Performance : 200/400 V 60 Hz 4P Rated current : 21.3/10.6 A Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



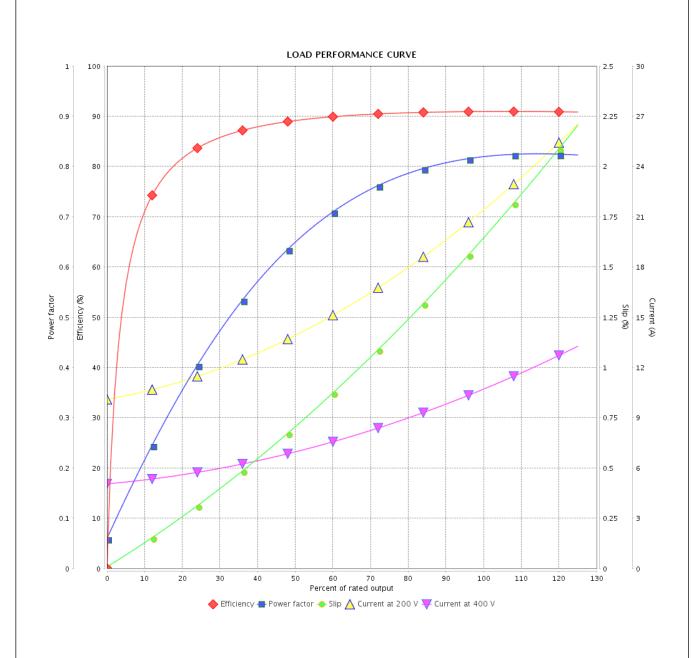
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13453166

Catalog #: 00718OT3V213JM-S



Performance	: 200/400 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.3/10.6 A : 7.2 : 22.3 ft.lb : 240 % : 320 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



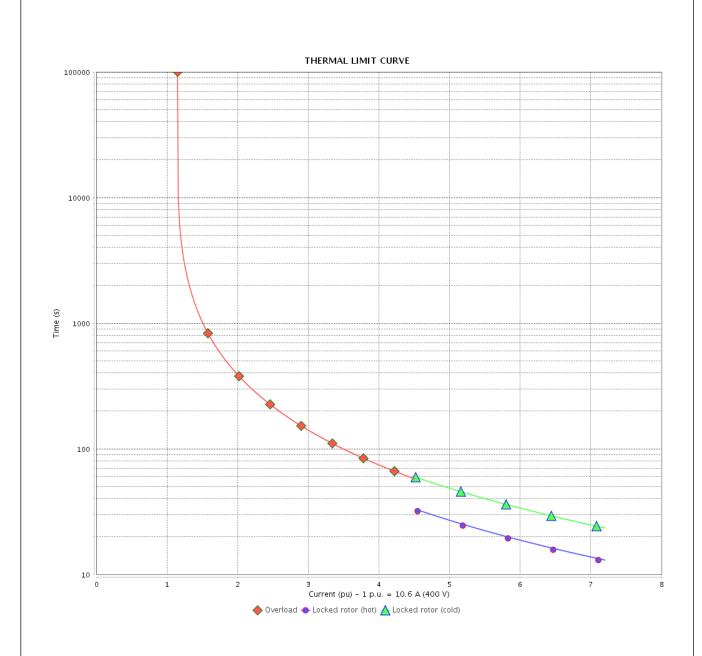
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Product line	: c	JM Pump NEMA Premium	1	Product code :	13453166	
		fficiency Three-Phase	(	Catalog # :	00718OT3V2	13JM-S
Performance		00/400 V 60 Hz 4P				
Rated current LRC	: 2′ : 7.	1.3/10.6 A 2	Moment of Duty cycle	f inertia (J)	: 1.03 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	2.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		40 % 20 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		770 rpm	Design		: B	
Heating constant	İ					
Cooling constant			Т			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

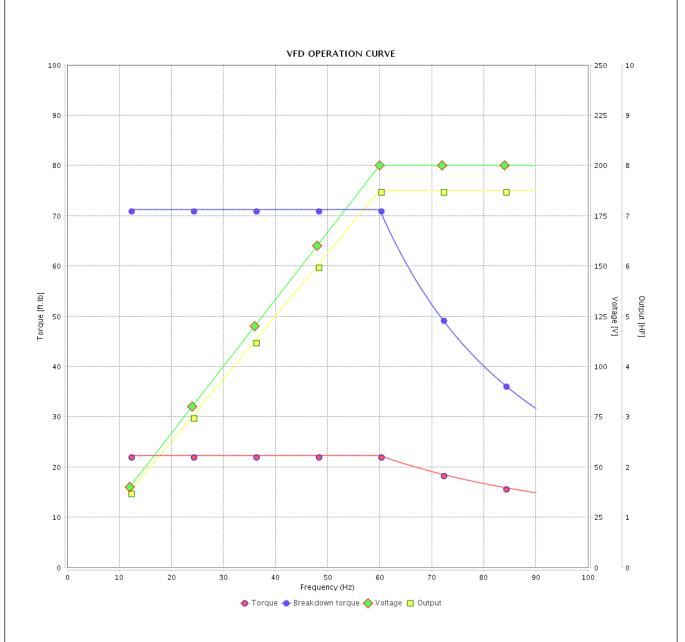
Product code: 13453166

Catalog #: 00718OT3V213JM-S

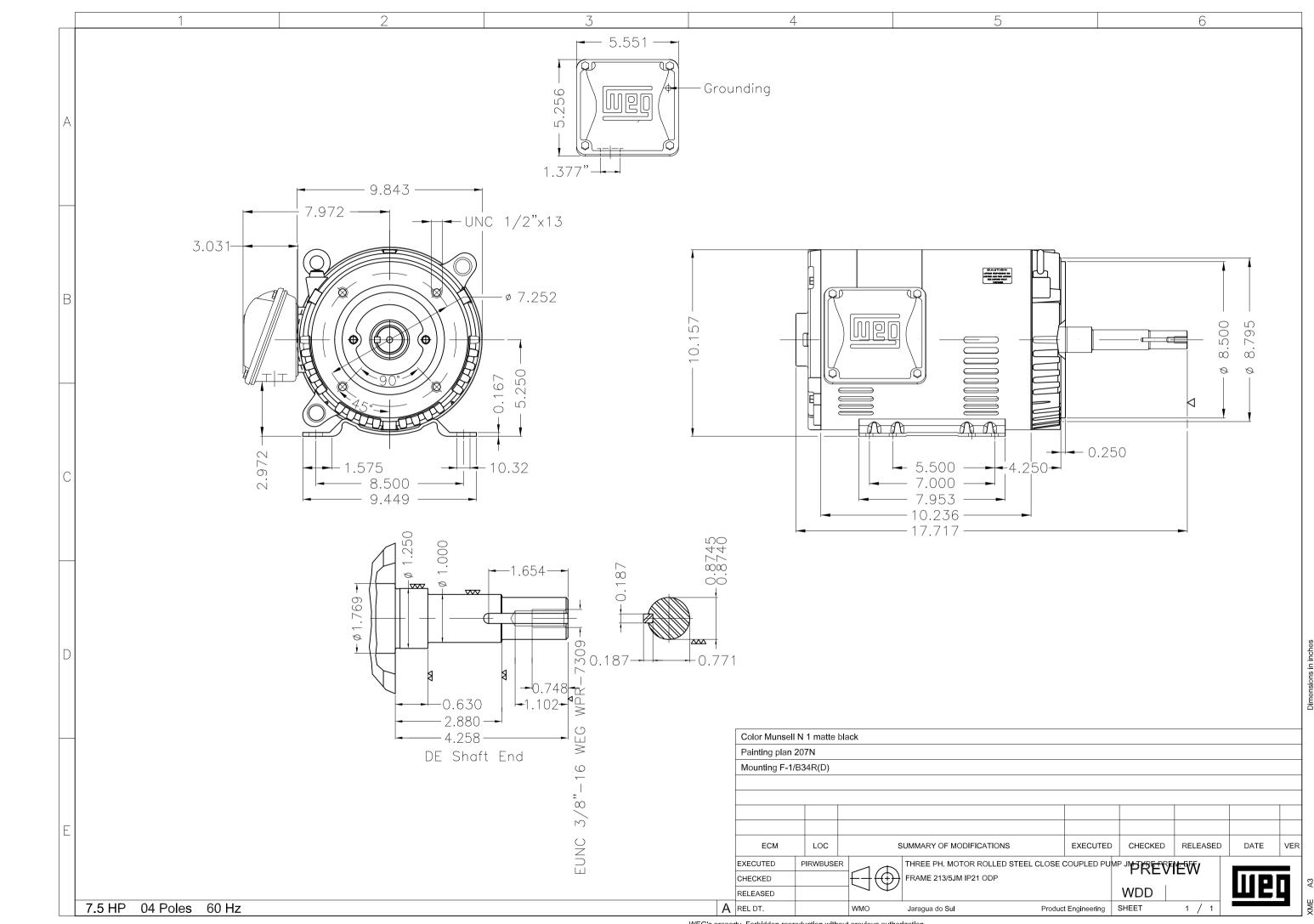
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Revision



Performance	: 200/400 V 60 Hz 4P	: 200/400 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.3/10.6 A : 7.2 : 22.3 ft.lb : 240 % : 320 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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13453166

MADE IN MÉXICO

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Energy Verifi

AODEL 00718OT3V213JM-S Hz 60 S/N )8DEC2021

213/5JM CONT

1000 m.a.s.l F AT 80K 2°04

> SCL NCL 2

21.3/10.6

1.15

200/400

CODE DES

ODP

NOM. EFF 91.0%

NEMA ZPM SFA 냃 쌆

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT 8206-ZZ ODE

T4-YEL

L2-WHJ T6-GRY

71-BLU 13-ORG F5-BLK

111

MOBIL POLYREX EM

8209-ZZ

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MOT

WARNING: Motor must be grounded in accordance v

E ROTATION NTERCHANGE ANY TWO LINE WIRES TO REVERSE TH

777

T10-CURRY T11-GRN T12-VLT T9-BRK RED

T8-RED L7-PNK

conformément aux codes électriques locaux et nationaux afin d'éviter tout shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre nd national electrical codes to prevent serious electrical

nentation avant l'entretien de la machine

choc électrique grave. Déconnectez l'alli