DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 12951401 Efficiency Three-Phase Catalog #: 01036OT3V213JM-S Frame : 213/5JM Locked rotor time : 19s (cold) 11s (hot) Output : 10 HP (7.5 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. : IC01 - ODP Cooling method Rated current : 27.6/13.8 A L. R. Amperes : 188/93.8 A Mounting : F-1 : Both (CW and CCW) LRC : 6.8x(Code H) Rotation¹ No load current : 10.7/5.36 A Noise level² : 66.0 dB(A) Rated speed : 3535 rpm Starting method : Direct On Line : 126 lb Slip : 1.81 % Approx. weight³ Rated torque : 14.9 ft.lb : 200 % Locked rotor torque Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.4651 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 88.5 89.5 89.5 : 171 lb Efficiency (%) 88.3 Max. traction Power Factor 0.47 0.74 0.84 0.88 : 297 lb Max. compression Drive end Non drive end Bearing type 6209 ZZ 6206 ZZ Sealing Without Bearing Seal Without Bearing Seal Lubrication interval

Mobil Polyrex EM

Lubricant type

Notes

Lubricant amount

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



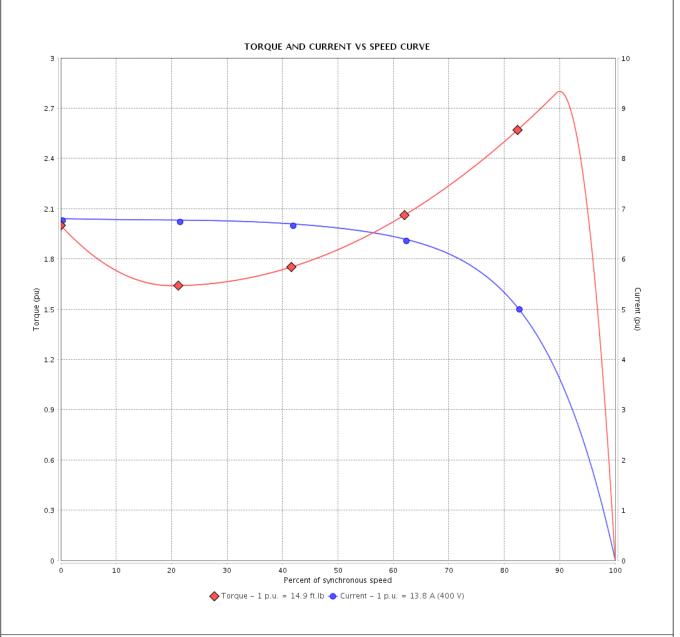
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12951401

Catalog #: 01036OT3V213JM-S



Performance : 200/400 V 60 Hz 2P Rated current : 27.6/13.8 A Moment of inertia (J) : 0.4651 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 14.9 ft.lb Insulation class Rated torque : F : 1.15 Locked rotor torque : 200 % Service factor Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



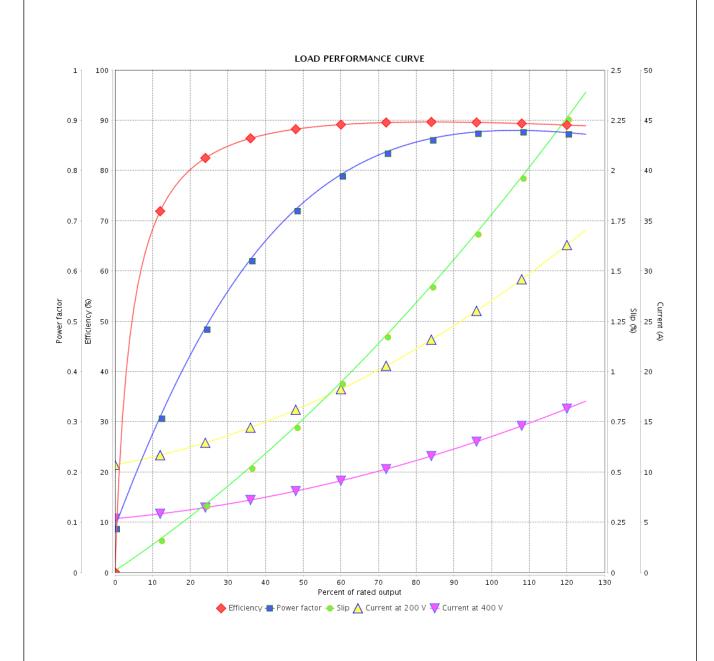
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12951401

Catalog #: 01036OT3V213JM-S



Performance ::		200/400 V 60 Hz 2P					
Rated current		7.6/13.8 A Moment of inertia (J)		: 0.4651 sq.ft.lb			
LRC		6.8	Duty cycle		: Cont.(S1)		
Rated torque		14.9 ft.lb	ft.lb Insulation class		: F		
Locked rotor torque		200 %	Service fa	Service factor		: 1.15	
Breakdown torqu	ue :	280 %	Temperat	Temperature rise			
Rated speed	:	535 rpm Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



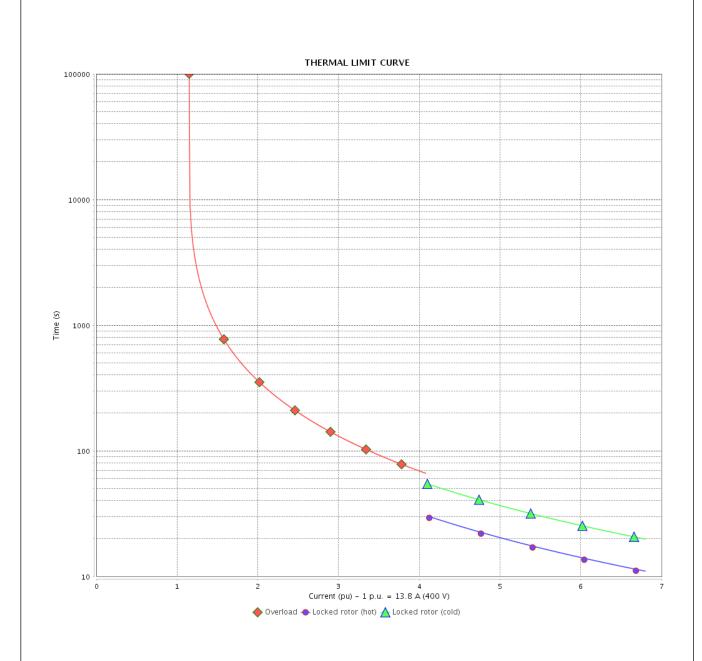
Customer	:					
Product line		: JM Pump NEMA Premium		Product code :	12951401	
	E	Efficiency Three-Phase		Catalog # :	01036OT3V2	:13JM-S
Performance		00/400 V 60 Hz 2P				
Rated current LRC	: 21 : 6.	7.6/13.8 A .8	Moment of Duty cycle	f inertia (J)	: 0.4651 sq.ft.l : Cont.(S1)	b
Rated torque	: 14	4.9 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 80 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		535 rpm	Design		: B	
Heating constant						
Cooling constant	:	Changes Commercial	Т	Dorform	Charles -	Data
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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



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Date

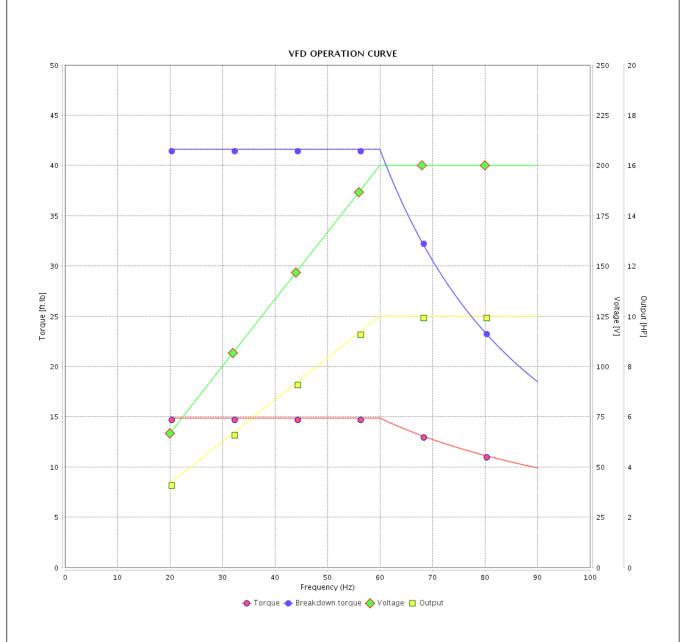
12/04/2022

Product line : JM Pump NEMA Premium

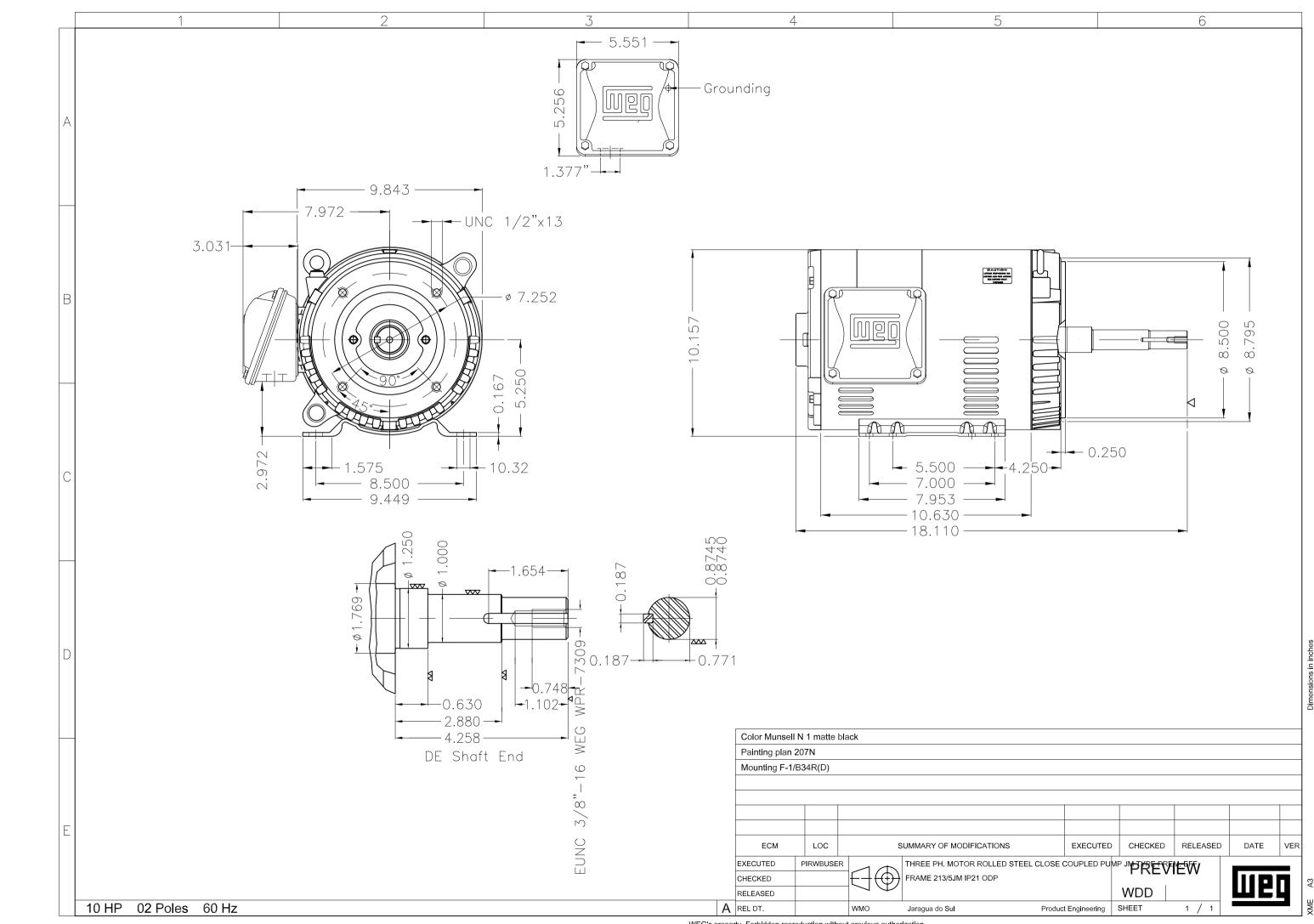
Efficiency Three-Phase

Product code: 12951401

Catalog #: 01036OT3V213JM-S



Performance : 200/400 V 60 Hz 2P : 27.6/13.8 A Rated current Moment of inertia (J) : 0.4651 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 14.9 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





US LISTED 3PT9

Ä

3535

90

213/5JM HP(kW) 10/7.5)

æ 200/400

PH 3

S/N

25FEV2019

W01.TO0IC0X0N

MAT: 12951401

ZN: 88.0 띪

40°C CONT

> 80K AMB NEMA NOM.EFF.

INS CL F AT

.15 1000

31.7/15.9

27.6/13.8

ALTERNATE RATING:

CODE 89.5%

M SPM SPM

Ή

T12-VLT

T11-GRN

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine

WARNING: Motor must be grounded in accordance with local and national

6206-ZZ

ODE

6209-ZZ

electrical codes to prevent serious electrical shocks. Disconnect power

AVERTISSEMENT: Le moteur doit être mis à la terre conformément

source before servicing unit.

aux codes électriques locaux et nationaux afin d'éviter tout choc

MOBIL POLYREX EM

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

Inverter duty For use on VPWM 1000:1 VT, 3:1 CT

T8-RED T4-YEL T6-GRY

HIGH

MOT

T9-BRK RED

T10-CURRY

T2-WHT

11-BLU T5-BLK

73-ORG T7-PNK

MODEL 010360T3V213JM-S CC029A