DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JP Pump NEMA Premium Product code: 13482998 Efficiency Three-Phase Catalog #: 02036OT3V254JP-S Frame : 254/6JP Locked rotor time : 23s (cold) 13s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 54.7/27.4 A : IC01 - ODP L. R. Amperes : 328/164 A Mounting : F-1 : Both (CW and CCW) LRC : 6.0x(Code G) Rotation¹ No load current : 19.6/9.78 A Noise level² : 70.0 dB(A) Rated speed : 3525 rpm Starting method : Direct On Line : 181 lb Slip : 2.08 % Approx. weight³ Rated torque : 29.8 ft.lb Locked rotor torque : 180 % Breakdown torque : 240 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.7848 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 90.0 91.0 : 252 lb Efficiency (%) 90.2 91.0 Max. traction Power Factor 0.49 0.83 0.87 : 433 lb 0.76 Max. compression Non drive end Drive end 6208 Z C3 Bearing type 6309 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 13 g 8 g 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



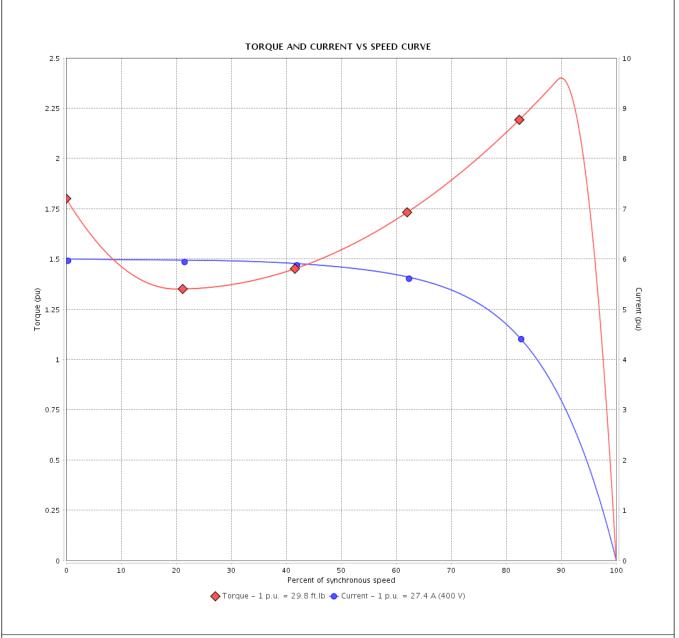
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482998

Catalog #: 02036OT3V254JP-S



Performance : 200/400 V 60 Hz 2P Rated current : 54.7/27.4 A Moment of inertia (J) : 0.7848 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : F : 29.8 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 180 % : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3525 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



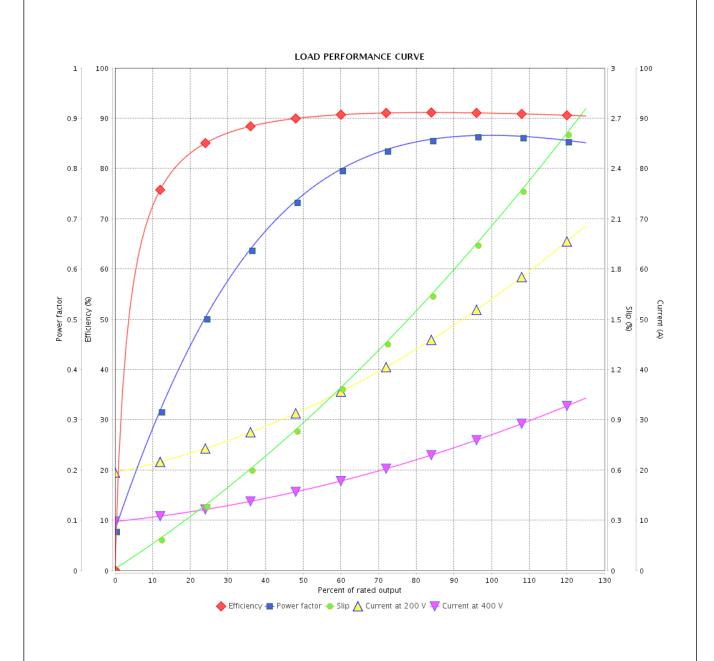
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482998

Catalog #: 02036OT3V254JP-S



Performance	• 5	200/400 V 60 Hz 2P					
Rated current		54.7/27.4 A	Moment o	f inertia (I)	: 0.7848 sq.ft	lh	
		6.0	Moment of inertia (J) Duty cycle		: Cont.(S1)		
-		29.8 ft.lb	Insulation class		: F		
· · · · · · · · · · · · · · · · · · ·		180 %	111101111111	Service factor		: 1.15	
Breakdown torqu		240 %	Temperati	Temperature rise			
Rated speed	: 3	3525 rpm Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



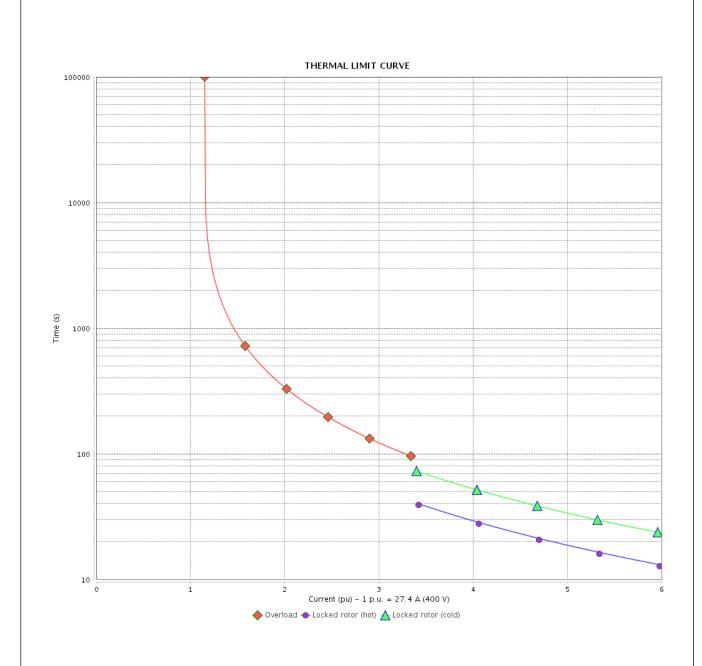
Customer	:					
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	13482998	
		Indicticy Three-i hase		Catalog # :	02036OT3V2	54JP-S
Performance	: 2	200/400 V 60 Hz 2P				
Rated current LRC		54.7/27.4 A 6.0	Moment o	f inertia (J)	: 0.7848 sq.ft.l : Cont.(S1)	b
Rated torque	: 2	29.8 ft.lb	Insulation	class	: F	
Locked rotor toro		180 %	Service fa		: 1.15	
Breakdown torqu Rated speed		240 % 3525 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant	İ					
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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 :

Date

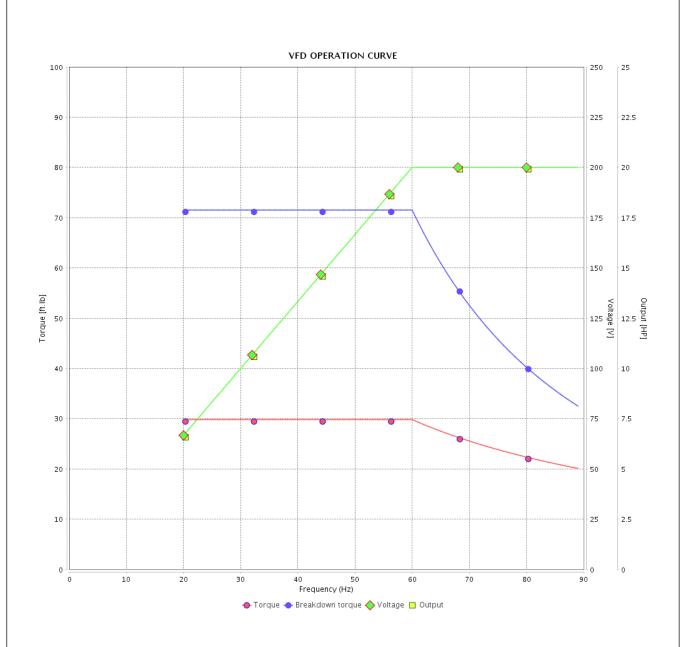
14/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

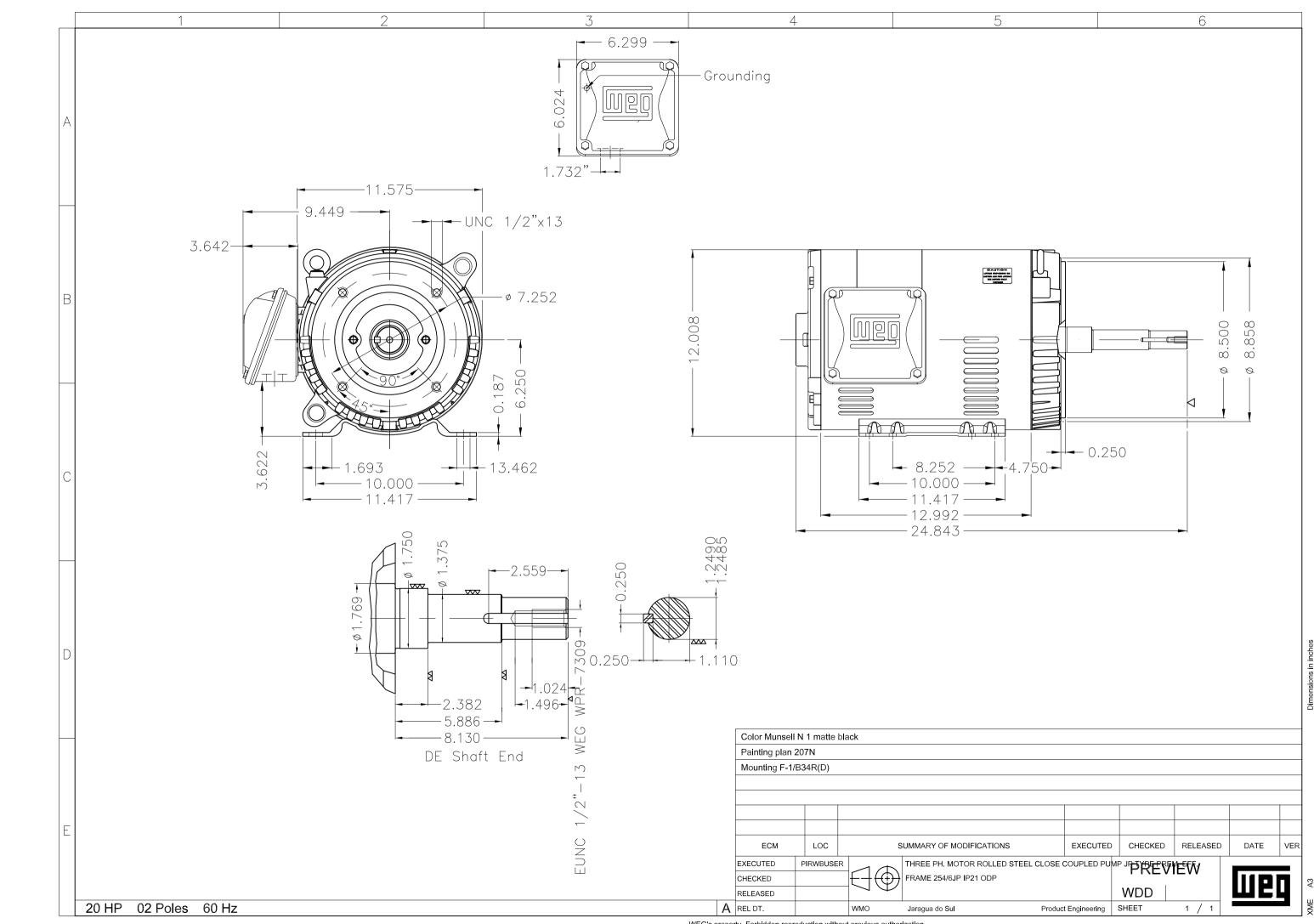
Product code: 13482998

Catalog #: 02036OT3V254JP-S



Performance : 200/400 V 60 Hz 2P Rated current : 54.7/27.4 A Moment of inertia (J) : 0.7848 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 Insulation class : 29.8 ft.lb : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3525 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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HP/kW) 20/15 MODEL 02036OT3V254JP-S 254/6JP W01.TO0IC0X0N MAT: 13482998 22ABR2019

SPM SPM

Ä 3525

CONT M

90

띪 CODE

S 0.87

40°C

80K AMB NEMA NOM.EFF.

INS CL F AT

62.9/31

54 7/27 4 .15 1000

Œ 200/400

PH 3

ALTERNATE RATING:

Ή

91.0%

T12-VLT T8-RED T4-YEL T6-GRY T9-BRK RED T10-CURRY T11-GRN 73-ORG T7-PNK T5-BLK

HIGH

MOT

T2-WHT

11-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

6208-Z-C3 | MOBIL POLYREX EM | 20000h

WARNING: Motor must be grounded in accordance with local and nationa electrical codes to prevent serious electrical shocks. Disconnect power Inverter duty For use on VPWM 1000:1 VT, 3:1 CT 6309-Z-C3 ODE: source before servicing unit.

AVERTISSEMENT: Le moteur doit être mis à la terre conformément

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

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