DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 13328509 Efficiency Three-Phase Catalog #: 02036ET3H256JM-S Frame : 254/6JM Locked rotor time : 21s (cold) 12s (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 : 575 V : 1000 m.a.s.l. Altitude Rated current : 18.2 A Protection degree : IP55 L. R. Amperes : 120 A Cooling method : IC411 - TEFC : 6.6x(Code G) LRC Mounting : F-1 No load current : 5.50 A Rotation¹ : Both (CW and CCW) Rated speed : 3515 rpm Noise level² : 75.0 dB(A) Starting method Slip : 2.36 % : Direct On Line Rated torque : 29.9 ft.lb Approx. weight³ : 234 lb Locked rotor torque : 200 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.22 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.0 : 298 lb Efficiency (%) 89.7 90.0 91.0 Max. traction Power Factor 0.88 0.91 0.55 0.81 Max. compression : 533 lb Non drive end Drive end Bearing type 6309 Z C3 6208 Z C3 V'Ring Sealing V'Ring Lubrication interval 15797 h 20000 h Lubricant amount 8 g 13 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



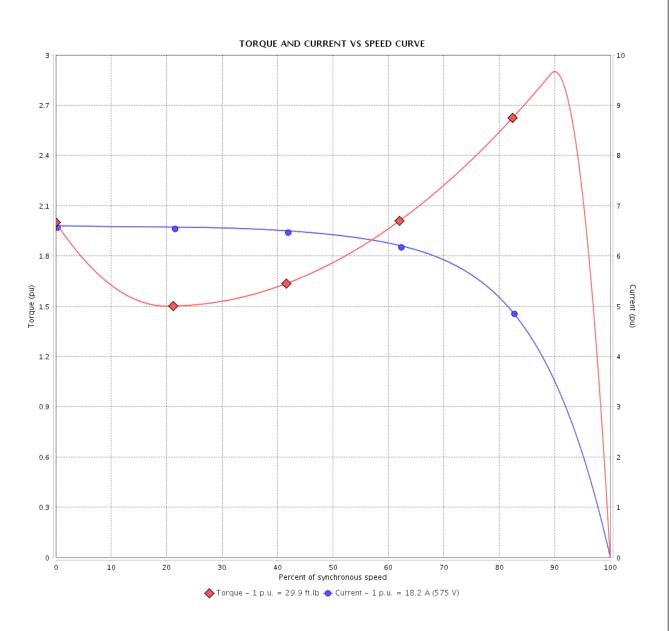
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13328509

Catalog #: 02036ET3H256JM-S



Performance : 575 V 60 Hz 2P Rated current : 18.2 A Moment of inertia (J) : 1.22 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.9 ft.lb : F Service factor : 1.15 Locked rotor torque : 200 % Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



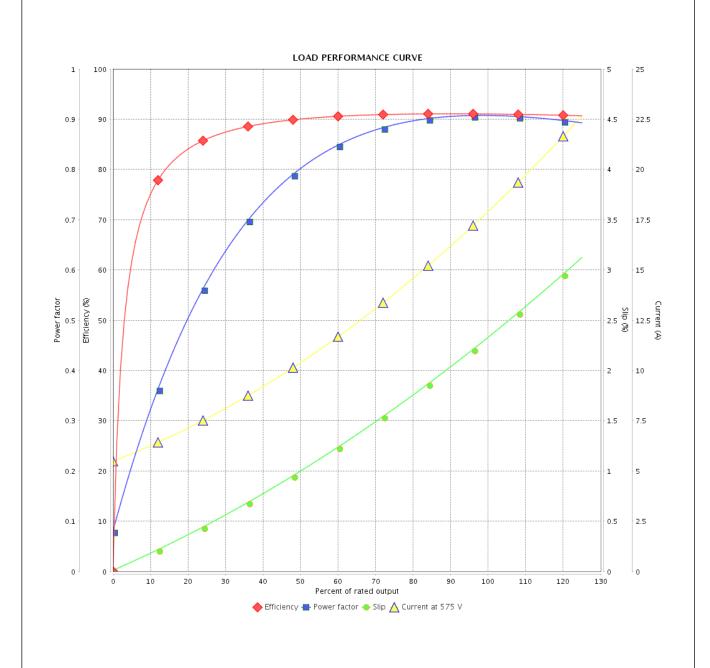
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13328509

Catalog #: 02036ET3H256JM-S



Performance	: 57	75 V 60 Hz 2P					
Rated current	: 18	Moment of inertia (J) Duty cycle 18.2 A Duty cycle 19.9 ft.lb Insulation class Service factor Temperature rise		: 1.22 sq.ft.lb			
LRC	: 6.			;	: Cont.(S1)	: Cont.(S1)	
Rated torque	: 29			class	: F		
Locked rotor torque	e : 20			ctor	: 1.15		
Breakdown torque	: 29			ıre rise	: 80 K		
Rated speed	: 3515 rpm D		Design		: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



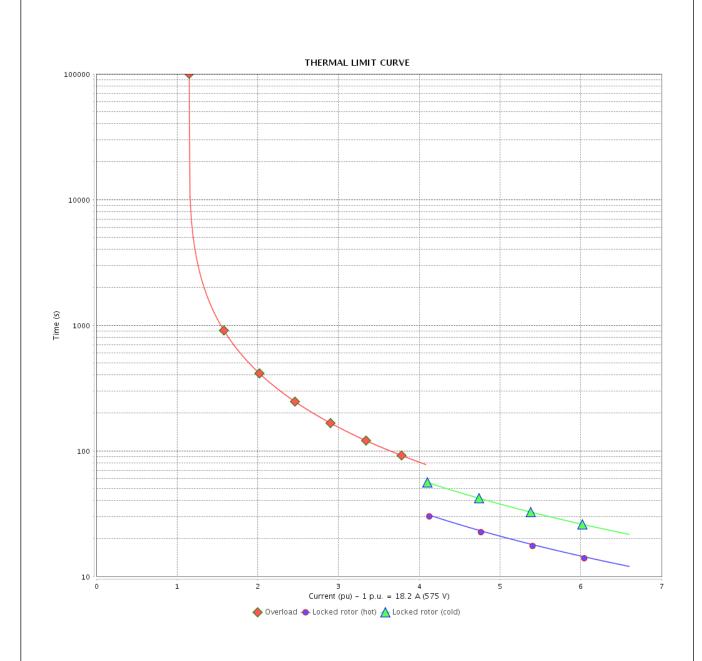
Customer	:					
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13328509	
				Catalog # :	02036ET3H2	56.JM-S
					020002101120	
5		75.V.00.U. 0D				
Performance		75 V 60 Hz 2P 3.2 A	Moment	finartia (I)	: 1 22 og ft lb	
Rated current LRC	: 6.	6	Duty cycle	f inertia (J)	: 1.22 sq.ft.lb : Cont.(S1)	
Rated torque		9.9 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		200 % Service fa 290 % Temperatu			: 1.15 : 80 K	
Rated speed		515 rpm	Design		: B	
Heating constant	t					
Cooling constant	<u> </u>					
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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

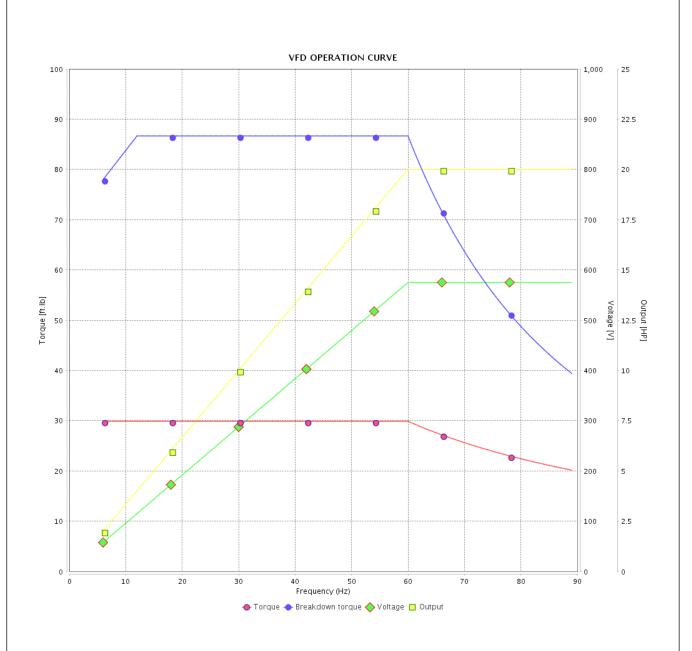
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

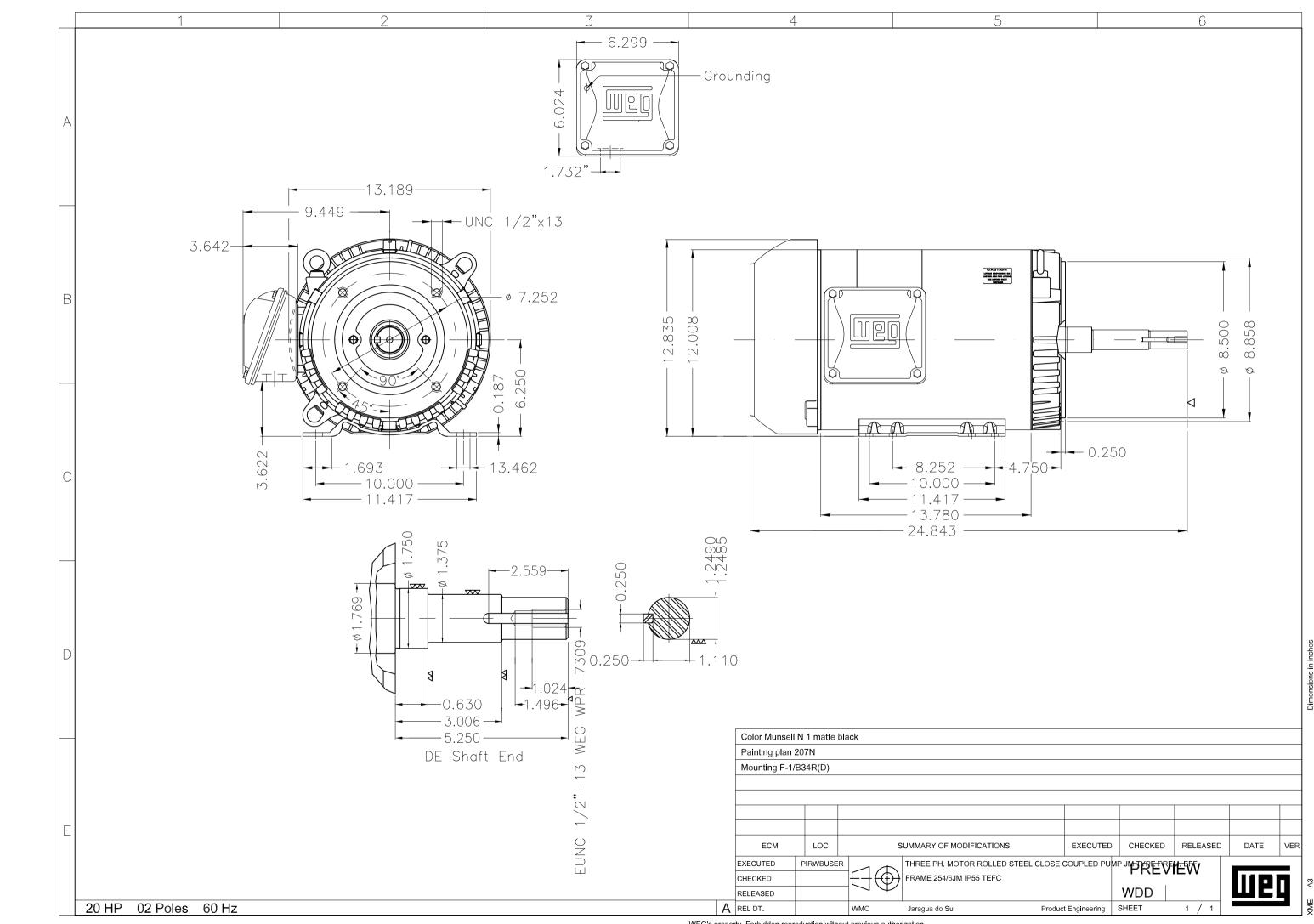
Product code: 13328509

Catalog #: 02036ET3H256JM-S



Performance : 575 V 60 Hz 2P : 18.2 A Rated current Moment of inertia (J) : 1.22 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 : 29.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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FOR SAFE AREA

& Energy Verified (**UL)**US LISTED 3PT9

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

CC029A

13328509

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1000 m.a.s.l 254/6JM CONT

18.2 1.15 0.91

575 20.9

> P55 CODE SH F AT 80K TEFC

0 NSC INC. WB

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For safe area-inverter duty motor For use on VPWM 1000:1 VT, 10:1 CT

NOM. EFF 91.0% 3515

NEMA ZPM 3FA 쑮 쌆

ODE 6208-Z-C3 9

8309-Z-C3

牌

15797h

MOBIL POLYREX EM

T2-WHT

T1-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical



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

r3-ORG TR-GRY 15-BLK T4-YEL choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine