DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14218460 Efficiency Three-Phase Catalog #: 00336ET3H182JM-SG Frame : 182/4JM Locked rotor time : 39s (cold) 22s (hot) Output : 3 HP (2.2 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 : 2.94 A Protection degree : IP55 L. R. Amperes : 25.8 A Cooling method : IC411 - TEFC LRC : 8.8x(Code K) Mounting : F-1 No load current : 1.29 A Rotation¹ : Both (CW and CCW) Rated speed : 3515 rpm Noise level² : 68.0 dB(A) Starting method Slip : 2.36 % : Direct On Line Rated torque : 4.48 ft.lb Approx. weight³ : 74.0 lb Locked rotor torque : 220 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1564 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 83.6 86.5 86.5 : 49 lb Efficiency (%) 84.0 Max. traction Power Factor 0.44 0.82 0.87 : 123 lb 0.71 Max. compression Drive end Non drive end Bearing type 6207 ZZ 6205 ZZ Sealing V'Ring 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



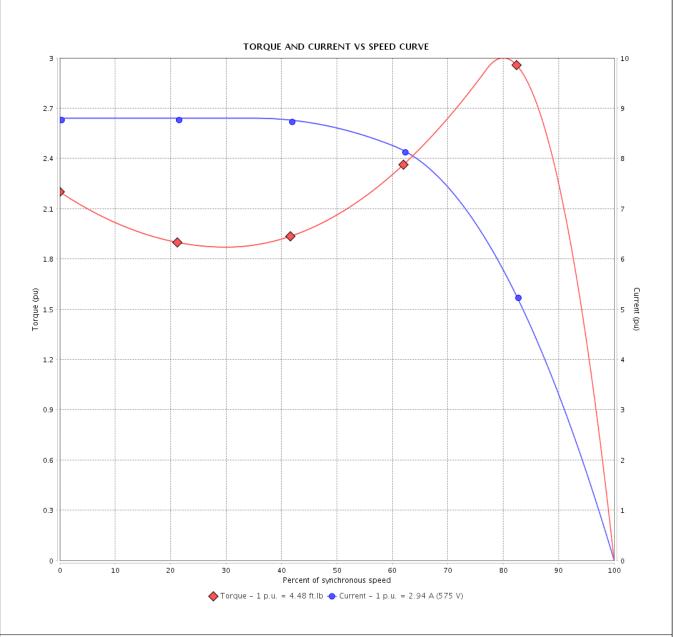
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14218460

Catalog #: 00336ET3H182JM-SG



Performance : 575 V 60 Hz 2P Rated current : 2.94 A Moment of inertia (J) : 0.1564 sq.ft.lb **LRC** : 8.8 Duty cycle : Cont.(S1) : F : 4.48 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 220 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

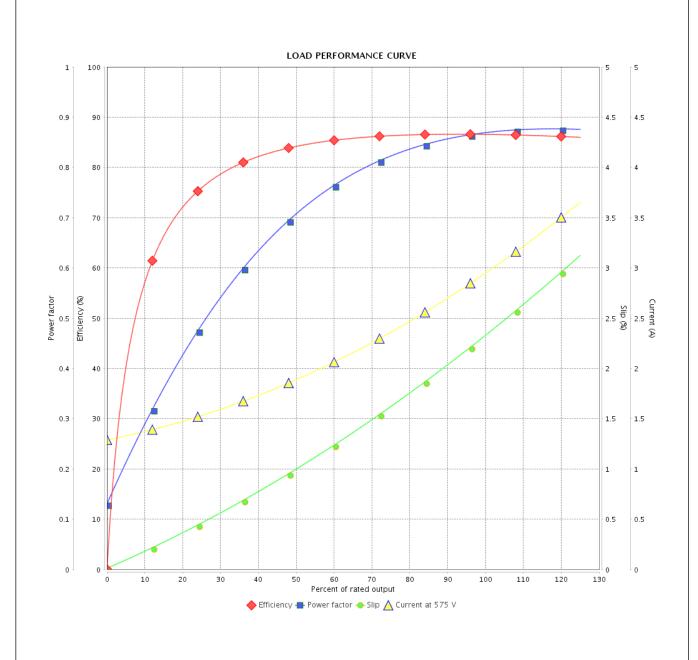
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14218460

Catalog #: 00336ET3H182JM-SG

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.94 A : 8.8 : 4.48 ft.lb : 220 % : 300 % : 3515 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1564 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



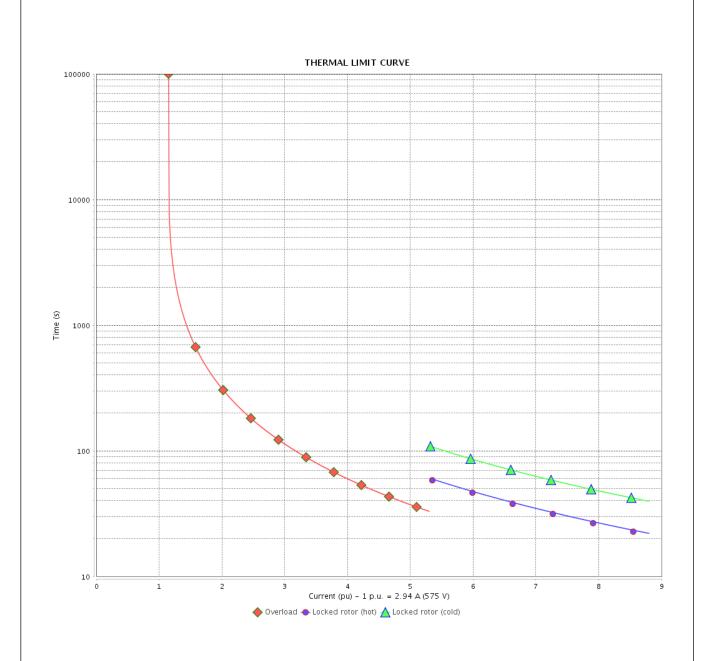
Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	14218460	
		Catalog # :	00336ET3H1	182JM-SG
Performance	: 575 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.94 A : 8.8 : 4.48 ft.lb : 220 % : 300 % : 3515 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1564 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constant				
Cooling constant				
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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

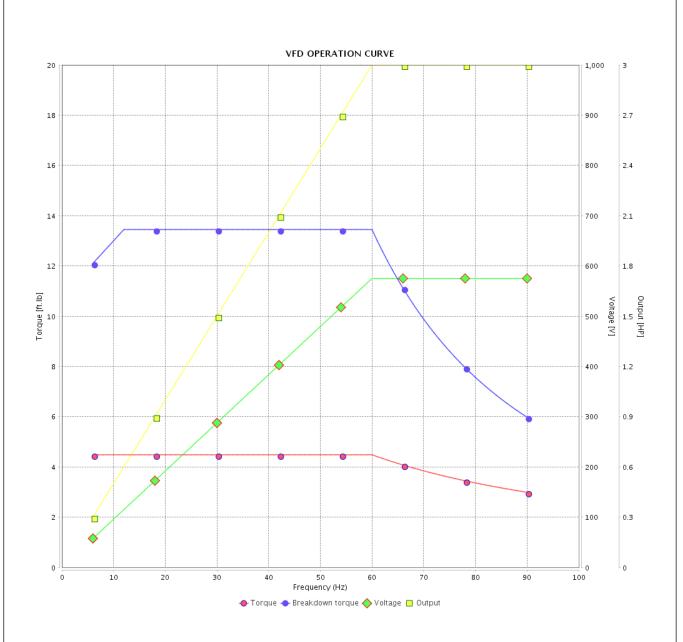
Product code: 14218460

Catalog #: 00336ET3H182JM-SG

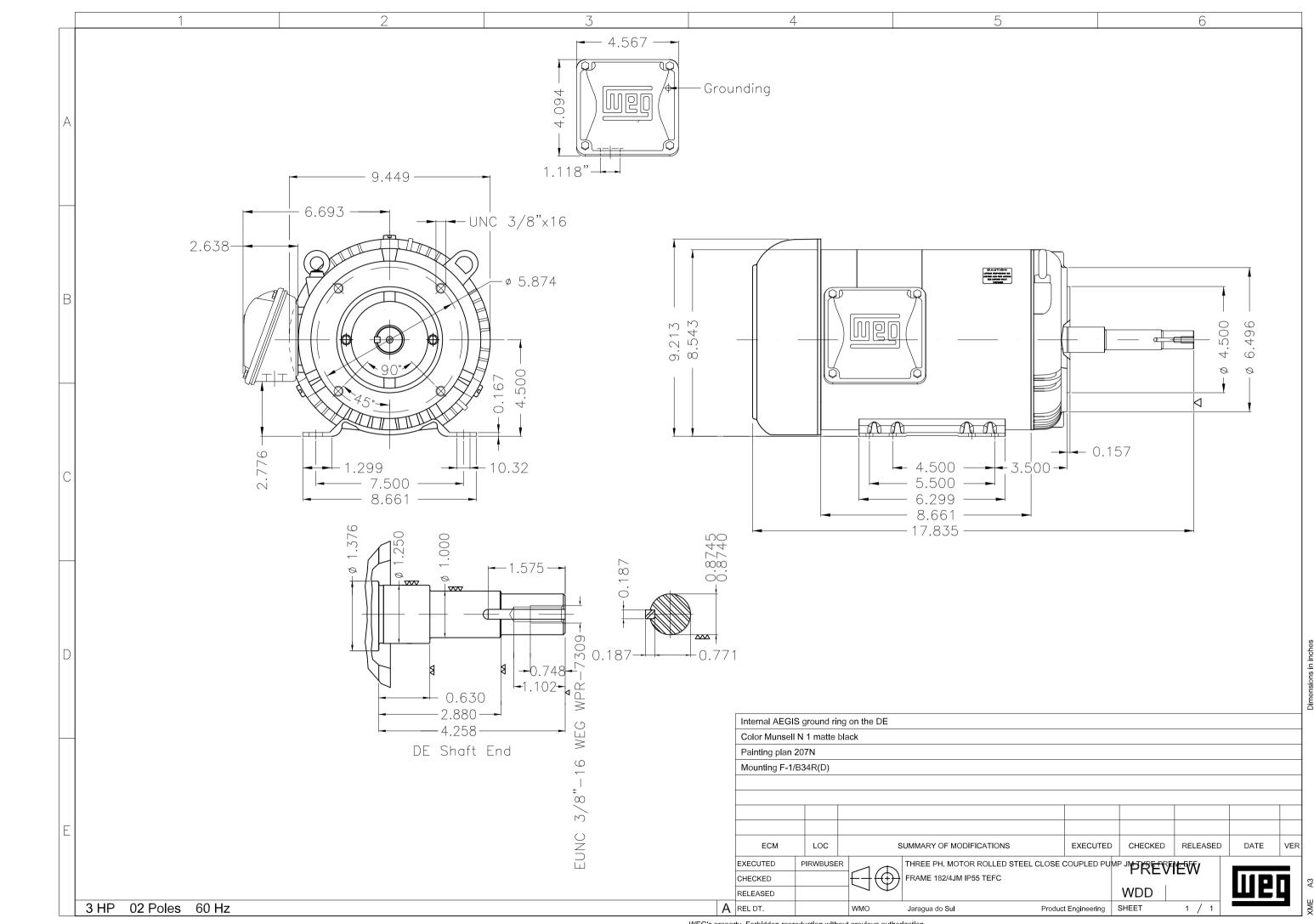
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Revision



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1564 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					









& Energy Verifi

3PT9

JM003502NPW01GR N01.TE0IC0X0N

CC029A

14218460

MADE IN MÉXICO

S/N 20CT2021

Hz 60

182/4.IM

CONT

1000 m.a.s.l

575 2.94 3.38

> P55 SH

> > F AT 80K

NS CL INC. WB

3FA 쑮

1.15

CODE

TEFC 6

쌆

ZPM

NEMA

NOM. EFF 86.5%

Inverter duty motor For use on VPWM 1000:1 VT, 10:1 CT

ODE 6205-22

8207-ZZ

牌

MOBIL POLYREX EM

T2-WHT

T1-BLU

r3-ORG

F6-GRY 15-BLK T4-YEL

> AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. 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

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine

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