DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14327846 Efficiency Three-Phase Catalog #: 00218OT3H145JM-SG Frame : 143/5JM Locked rotor time : 30s (cold) 17s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 575 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 2.15 A : IC01 - ODP L. R. Amperes : 16.6 A Mounting : F-1 : 7.7x(Code K) : Both (CW and CCW) LRC Rotation¹ No load current : 1.10 A Noise level² : 52.0 dB(A) Rated speed : 1740 rpm Starting method : Direct On Line Slip : 3.33 % Approx. weight³ : 41.2 lb Rated torque : 6.04 ft.lb Locked rotor torque : 260 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1168 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.2 85.5 86.5 86.5 : 147 lb Efficiency (%) Max. traction : 189 lb Power Factor 0.36 0.74 0.81 0.61 Max. compression Drive end Non drive end Bearing type 6206 ZZ 6203 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



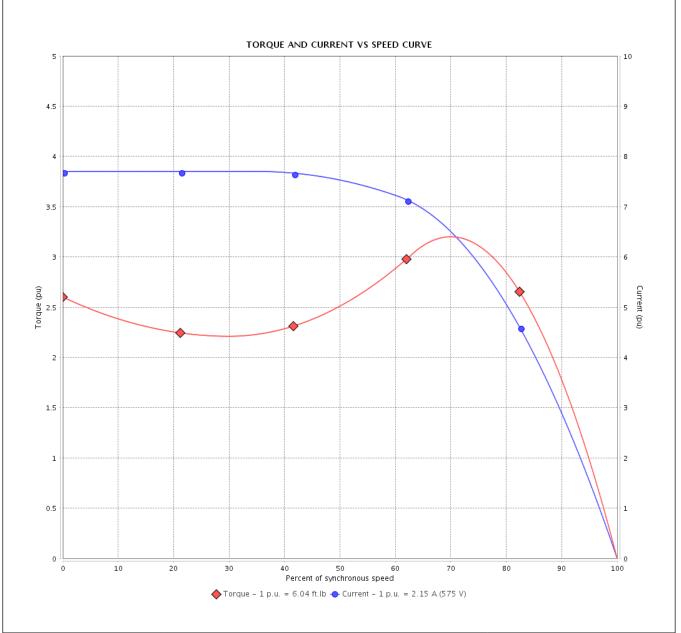
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327846

Catalog #: 00218OT3H145JM-SG



Performance	: 575 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.15 A : 7.7 : 6.04 ft.lb : 260 % : 320 % : 1740 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1168 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked reter time	: 30c (cold) 17c (bot)			-

Locked rotor time : 30s (cold) 17s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



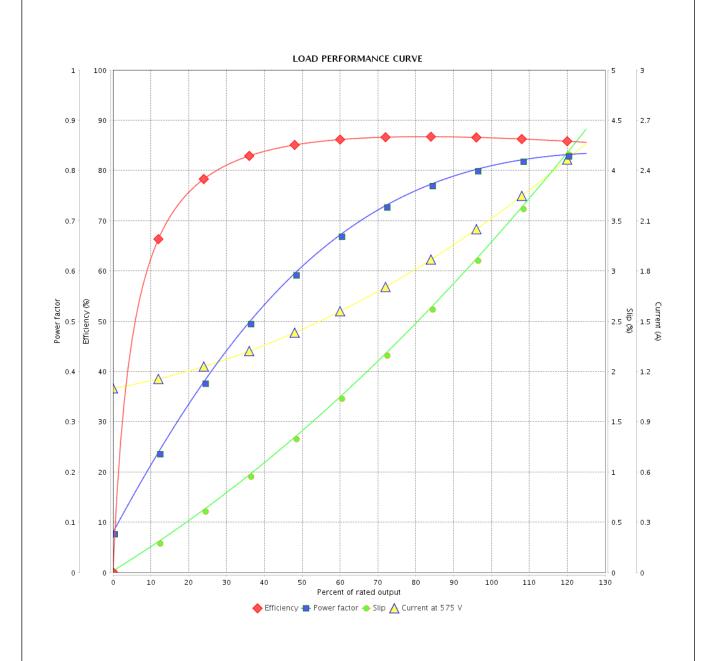
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327846

Catalog #: 00218OT3H145JM-SG



Performance	: 5	75 V 60 Hz 4P				
Rated current	: 2	.15 A	Moment of inertia (J)		: 0.1168 sq.ft.lb	
LRC		7.7	Duty cycle		: Cont.(S1)	
Rated torque		.04 ft.lb	Insulation class		:F	
Locked rotor torque		60 %	Service factor		: 1.15	
Breakdown torque	: 3	20 %	Temperature rise		: 80 K	
Rated speed	: 1	740 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



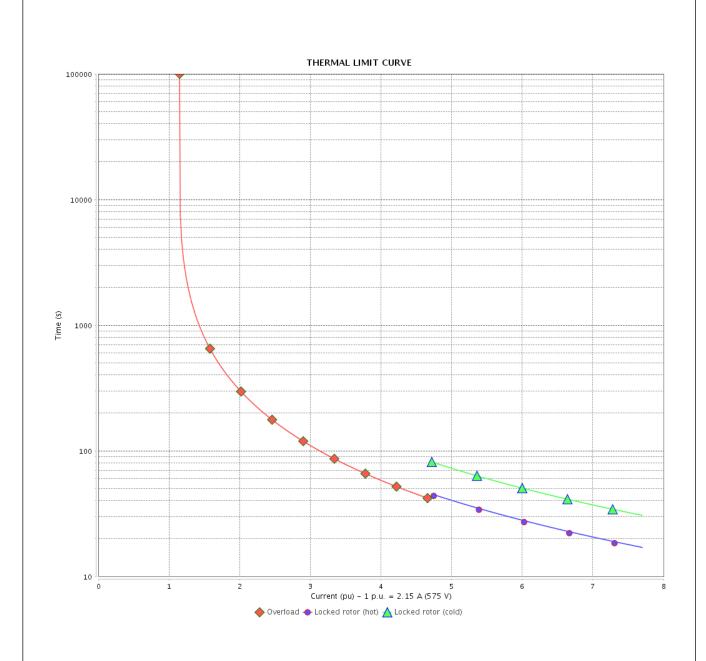
Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14327846	
		Elliciticy Tillet-i Hase		Catalog # :	00218OT3H	I45JM-SG
Performance		: 575 V 60 Hz 4P				
Rated current		: 2.15 A	Moment o	of inertia (J)	: 0.1168 sq.ft.l	b
LRC Rated torque		: 7.7 : 6.04 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 260 %	Service fa	ictor	: 1.15	
Breakdown torqu		: 320 %	Temperat	ure rise	: 80 K	
Rated speed		: 1740 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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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



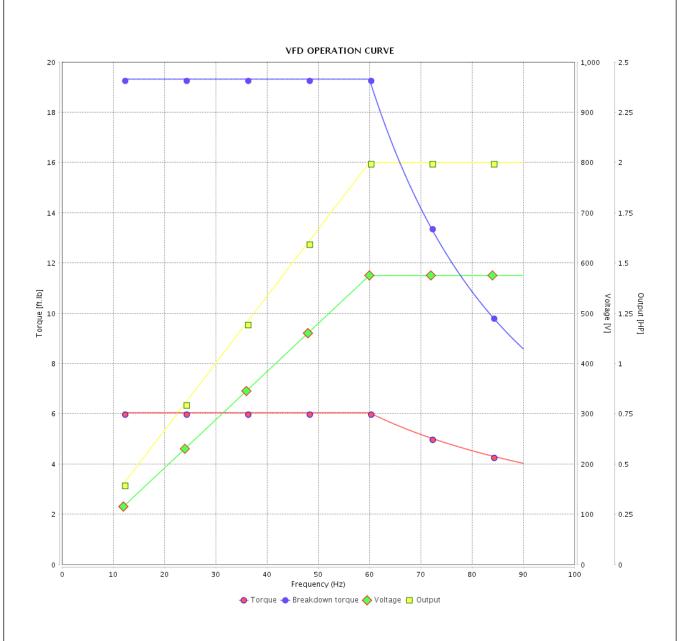
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14327846

Catalog #: 00218OT3H145JM-SG

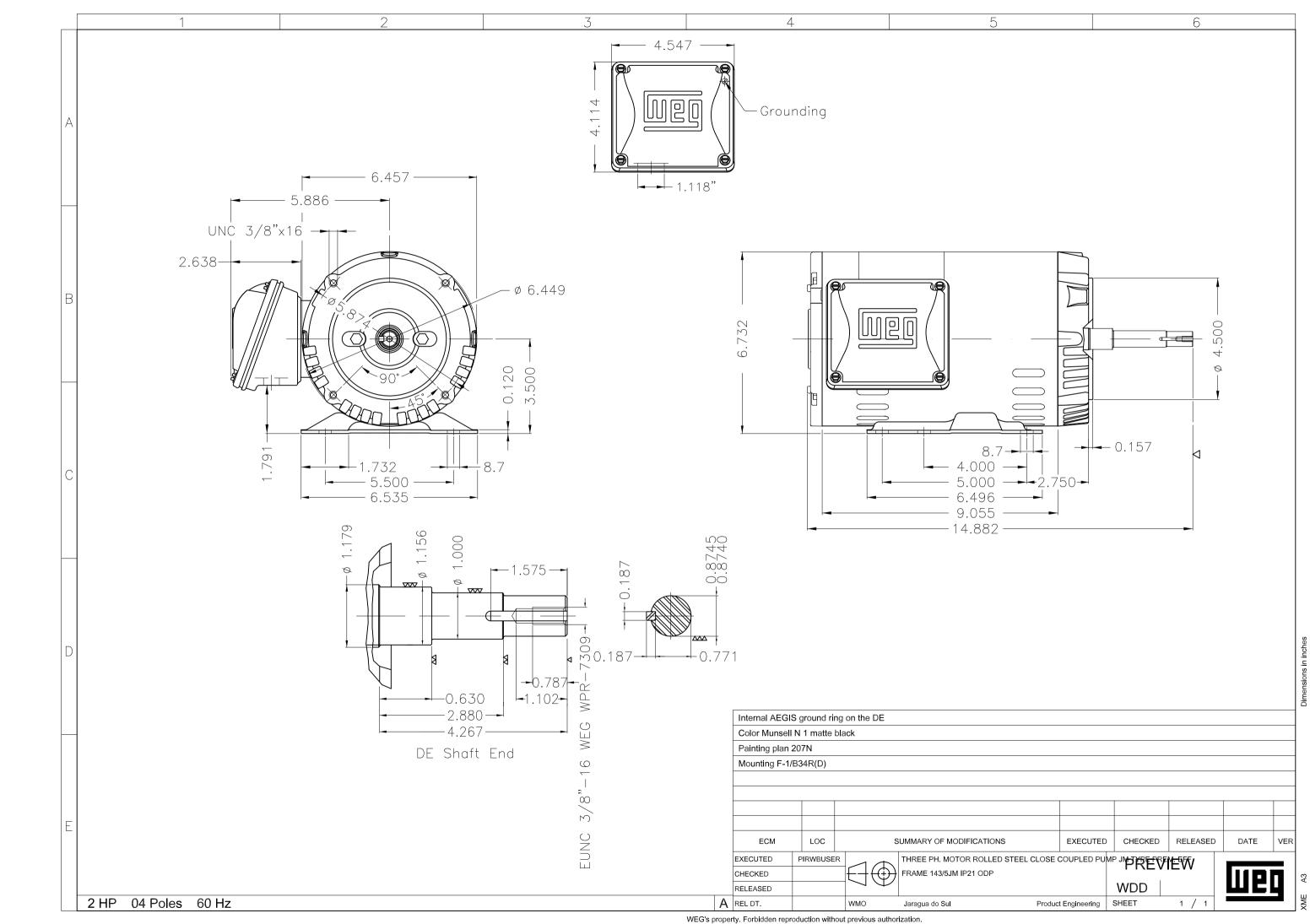


Performance	: 575 V 60 Hz 4P				
Rated current	: 2.15 A	: 2.15 A Moment of inertia (J)		: 0.1168 sq.ft.lb	
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque	: 6.04 ft.lb	Insulation	class	:F	
Locked rotor torque	: 260 %	Service factor		: 1.15	
Breakdown torque	: 320 %	Temperatu	re rise	: 80 K	
Rated speed	: 1740 rpm	Design		: B	
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14/04/2022

Date





MADE IN MÉXICO





N01.TO0IC0X0N 14327846

IM002504DPNPW01GR

Hz 60 ë, 0FEB2022

143/5JM

CONT

1000 m.a.s.l

CODE DES

쌆

RPM

NEMA

NOM. EFF 86.5%

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT

MOBIL POLYREX EM

ODE 6203-22

8206-ZZ

牌

2.15 1.15 575 2.47

> 3FA 쑮

> > F AT 80K

NSC INC. WB

2°04

ODP

Energy Verifi

&

T2-WHT r3-ORG r6-GRY 15-BLK T4-YEL

T1-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine

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.

ind national electrical codes to prevent serious electrical