DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 14808524 Efficiency Three-Phase Catalog #: 00218ET3V145JM-S Frame : 143/5JM Locked rotor time : 27s (cold) 15s (hot) Output : 2 HP (1.5 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 : 1000 m.a.s.l. Altitude Rated current : 6.26/3.13 A Protection degree : IP55 L. R. Amperes : 51.3/25.6 A Cooling method : IC411 - TEFC LRC : 8.2x(Code K) Mounting : F-1 No load current : 3.22/1.61 A Rotation¹ : Both (CW and CCW) Rated speed : 1745 rpm Noise level² : 52.0 dB(A) Starting method Slip : 3.06 % : Direct On Line Rated torque : 6.02 ft.lb Approx. weight³ : 45.5 lb Locked rotor torque : 270 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1296 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 87.5 86.5 : 134 lb Efficiency (%) 86.0 Max. traction : 180 lb Power Factor 0.35 0.60 0.73 0.80 Max. compression Drive end Non drive end Bearing type 6206 ZZ 6203 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

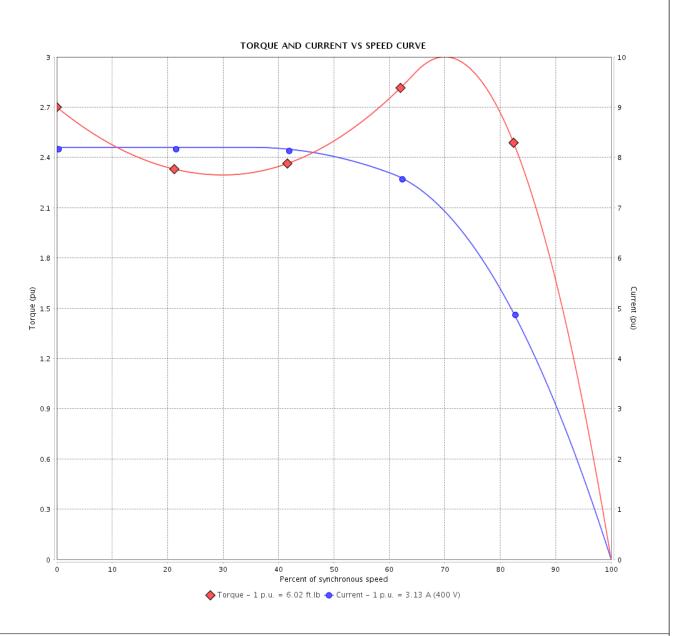


Customer :

Product line : JM Pump NEMA Premium Product code : 14808524

Efficiency Three-Phase

Catalog #: 00218ET3V145JM-S



Performance	: 200/400 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6.26/3.13 A : 8.2 : 6.02 ft.lb : 270 % : 300 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.1296 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed	: 1745 rpm	Design	: B	
Laskad ratar times	. 07a (aald) 45a (bat)	·		

Locked rotor time : 27s (cold) 15s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



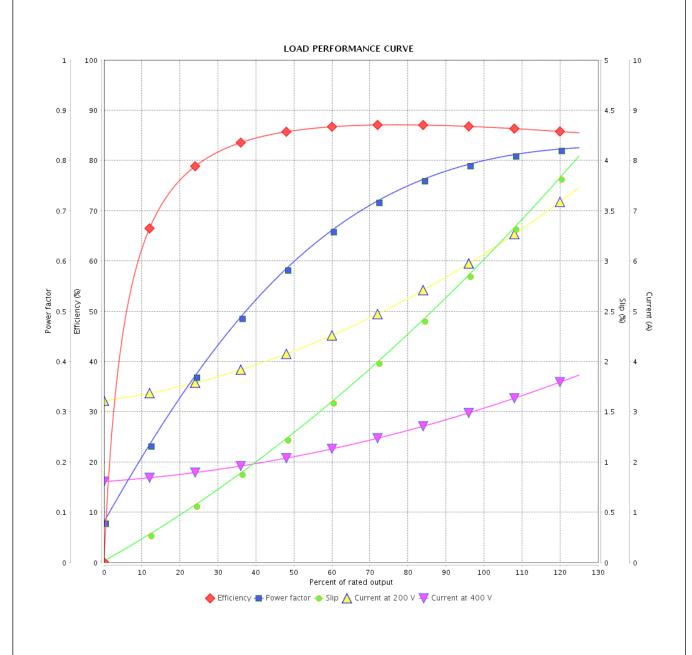
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808524

Catalog #: 00218ET3V145JM-S



Performance	: 2	200/400 V 60 Hz 4P					
Rated current		6.26/3.13 A	Moment of inertia (J)		: 0.1296 sq.ft.lb		
LRC	: 8	3.2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 6	6.02 ft.lb	Insulation	class	:F ` ´		
Locked rotor torqu	ie : 2	270 %	Service fa	ctor	: 1.15		
Breakdown torque	: : 3	300 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 1	745 rpm	Design		: B		
Rev.		Changes Summary	У	Performed	Checked	Date	
Performed by							
Checked by		1			Page	Revision	
Date	13/04/2022				3/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



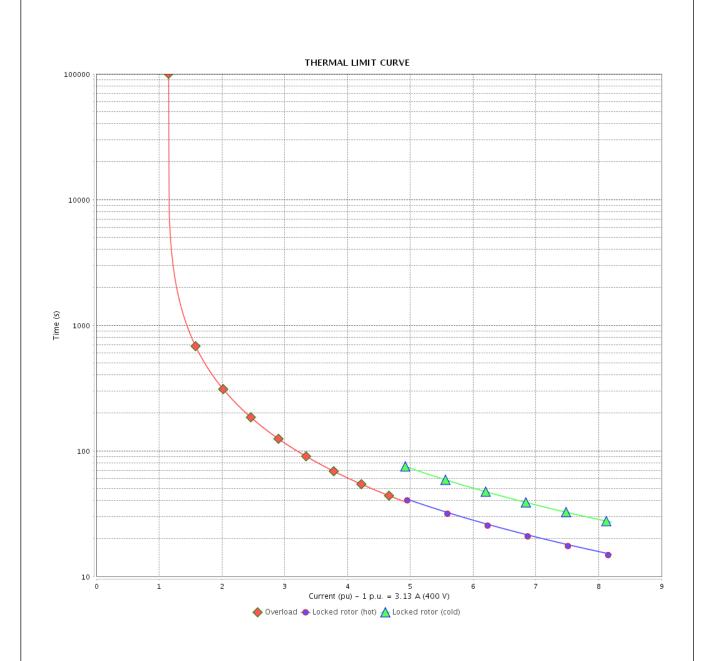
Customer	:					
Product line	: .	JM Pump NEMA Premium	1	Product code :	14808524	
	E	fficiency Three-Phase		Catalog # :	00218ET3V1	45JM-S
Performance	: 20	00/400 V 60 Hz 4P				
Rated current	: 6.	26/3.13 A	Moment o	f inertia (J)	: 0.1296 sq.ft.l	b
LRC Rated torque	: 8. : 6	2 02 ft.lb	Duty cycle Insulation	!	: Cont.(S1) : F	
Locked rotor torque	e : 27	70 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		00 % 745 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 17	10 Ipili	Design		. <i>D</i>	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					·	
Checked by					Page	Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5/6	

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

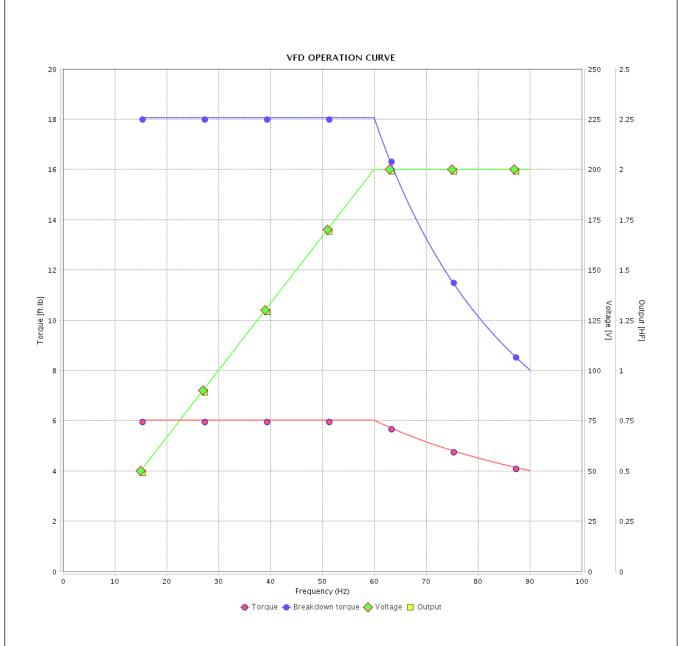
Product code: 14808524

Catalog #: 00218ET3V145JM-S

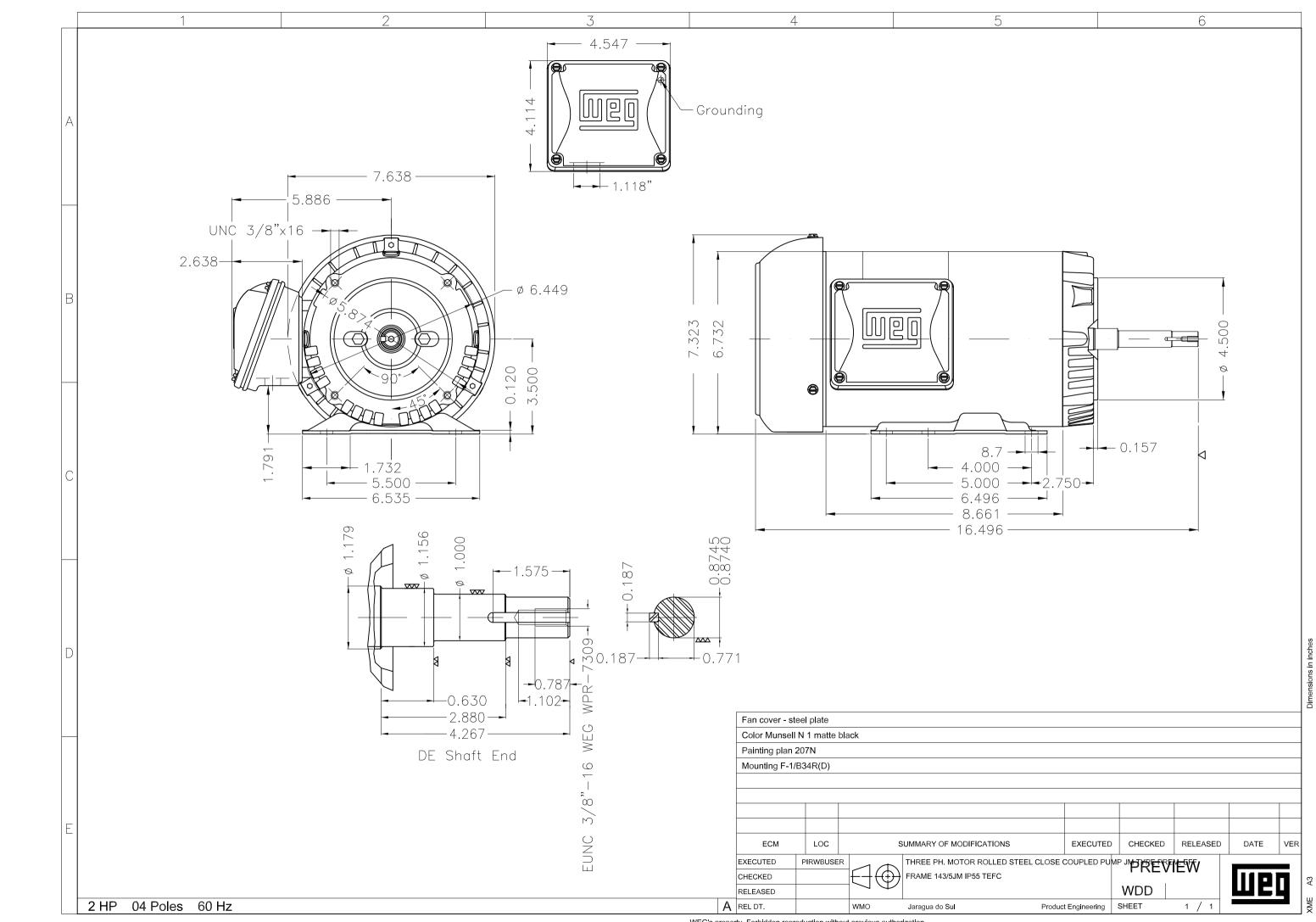
Page

6/6

Revision



Performance	: 200/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.2 Duty cycle : Control : 6.02 ft.lb Insulation class : F : 270 % Service factor : 1.15		: 1.15 : 80 K	o	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					





MADE IN MÉXICO

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UL)US LISTED 3PT9 FOR SAFE AREA

& Energy Verifi

> N01.TE0IC0X0N 14808524

MODEL 00218ET3V145JM-S

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

Hz 60

143/5.IM 5ABR2021

CONT

ë B

5.26/3.13 200/400

7.20/3.60

3FA 냃 监

P55

1000 m.a.s.l

F AT 80K

NS CL INC. WB

CODE SH

TEFC 0

1.15 ZPM

NOM EFF NEMA

86.5%

For safe area-inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT MOBIL POLYREX EM

ODE 6203-2Z

8206-ZZ

牌

712

Ξ

T2-WH

71-BLU

F5-BLK L7-PNK

F11-GRN T12-VLT T9-BRK RED T10-CURRY







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

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

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local

AVERTISSEMENT: Le moteur doit être mis à la terre