### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



				•	•		
Customer		:					
Product line			Pump NEMiency Three	MA Premium e-Phase	Product code : Catalog # :	12845335 00218OT3V145JM-S	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tor Breakdown torq Insulation class Service factor Moment of inert Design	que ue	: 2 F : 4 : 60 : 200 : 6.1 : 47. : 7.7 : 3.1 : 174 : 3.3 : 6.0 : 260 : 320 : F : 1.1	0/400 V 9/3.09 A 6/23.8 A x(Code K) 6/1.58 A 10 rpm 3 % 4 ft.lb ) %		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 30s (cold) 17s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IC01 - ODP : F-1 : Both (CW and CCW) : 52.0 dB(A) : Direct On Line : 41.6 lb	
Output  Efficiency (%)  Power Factor	25% 85.2 0.36	50% 85.5 0.61	75% 86.5 0.74	100% 86.5 0.81	Foundation loads Max. traction Max. compression	: 147 lb : 189 lb	
I OWEL FACIOL	0.50	0.01					_
Decide a few				<u>re end</u>	Non drive end		
Bearing type				206 ZZ	6203 ZZ	01	
Sealing		:	Without I	Bearing Seal	Without Bearing	Seal	
Lubrication inter		:		-	-		
Lubricant amou	nt	:		-	-		

Mobil Polyrex EM

Notes

Lubricant type

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



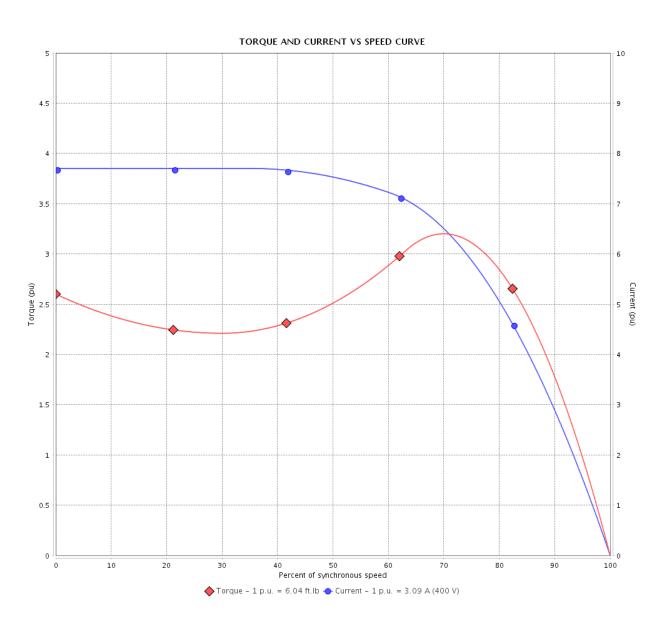
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12845335

Catalog #: 00218OT3V145JM-S



Performance : 200/400 V 60 Hz 4P Rated current : 6.19/3.09 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 6.04 ft.lb Insulation class Rated torque : 260 % Service factor Locked rotor torque : 1.15 : 80 K Breakdown torque : 320 % Temperature rise Rated speed : 1740 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



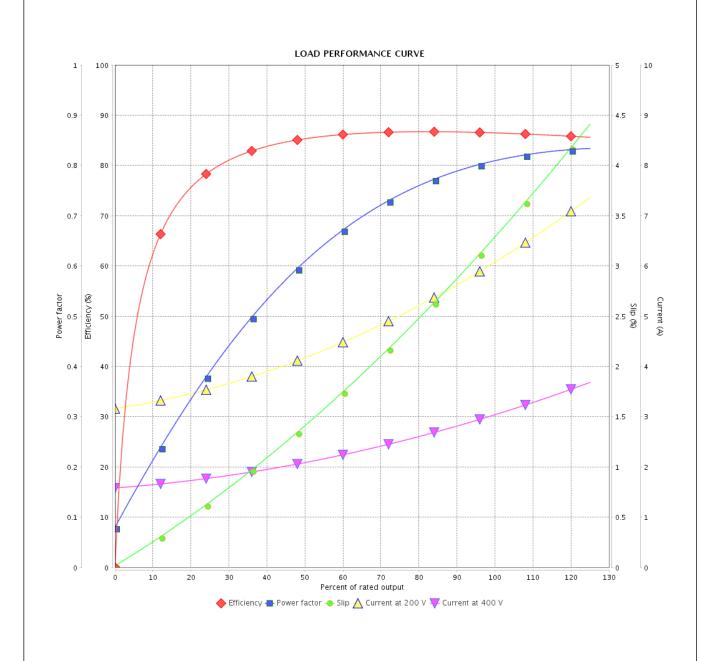
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12845335

Catalog #: 00218OT3V145JM-S



Performance	: 2	00/400 V 60 Hz 4P				
Rated current : 6.		.19/3.09 A	Moment of inertia (J)		: 0.1168 sq.ft.lb	
LRC : 7.7		.7	Duty cycle		: Cont.(S1)	
Rated torque : 6.0		.04 ft.lb	b Insulation class		: F	
Locked rotor torque : 26		60 %	Service factor		: 1.15	
Breakdown torque		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



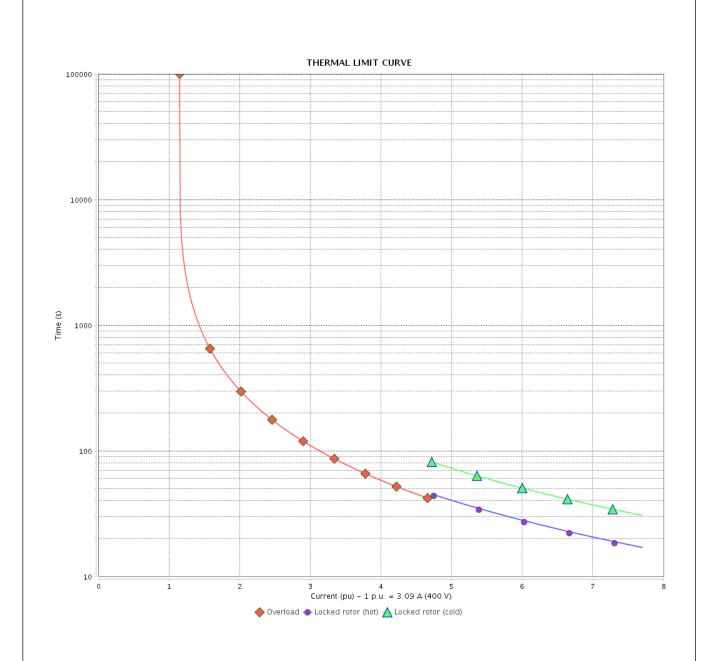
Customer		:				
Product line		. INA Duman NICNA Dramaiuma		Product code :	40045005	
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Floduct code.	12845335	
		·		Catalog # :	00218OT3V1	45JM-S
Performance		200/400 V 60 Hz 4P				
Rated current LRC		6.19/3.09 A 7.7	Moment o	f inertia (J)	: 0.1168 sq.ft.ll : Cont.(S1)	
Rated torque		6.04 ft.lb	Insulation		: F	
Locked rotor torc	que ::	260 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		320 % 1740 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant	t					
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

14/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

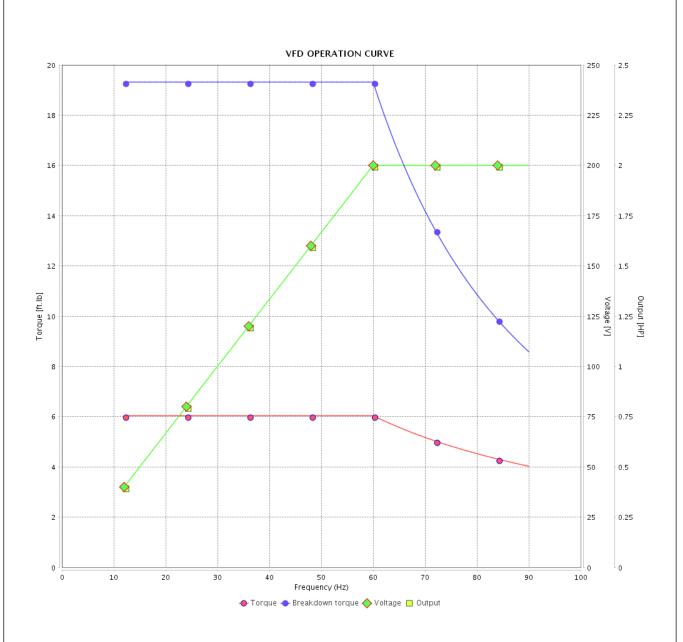
Product code: 12845335

Catalog #: 00218OT3V145JM-S

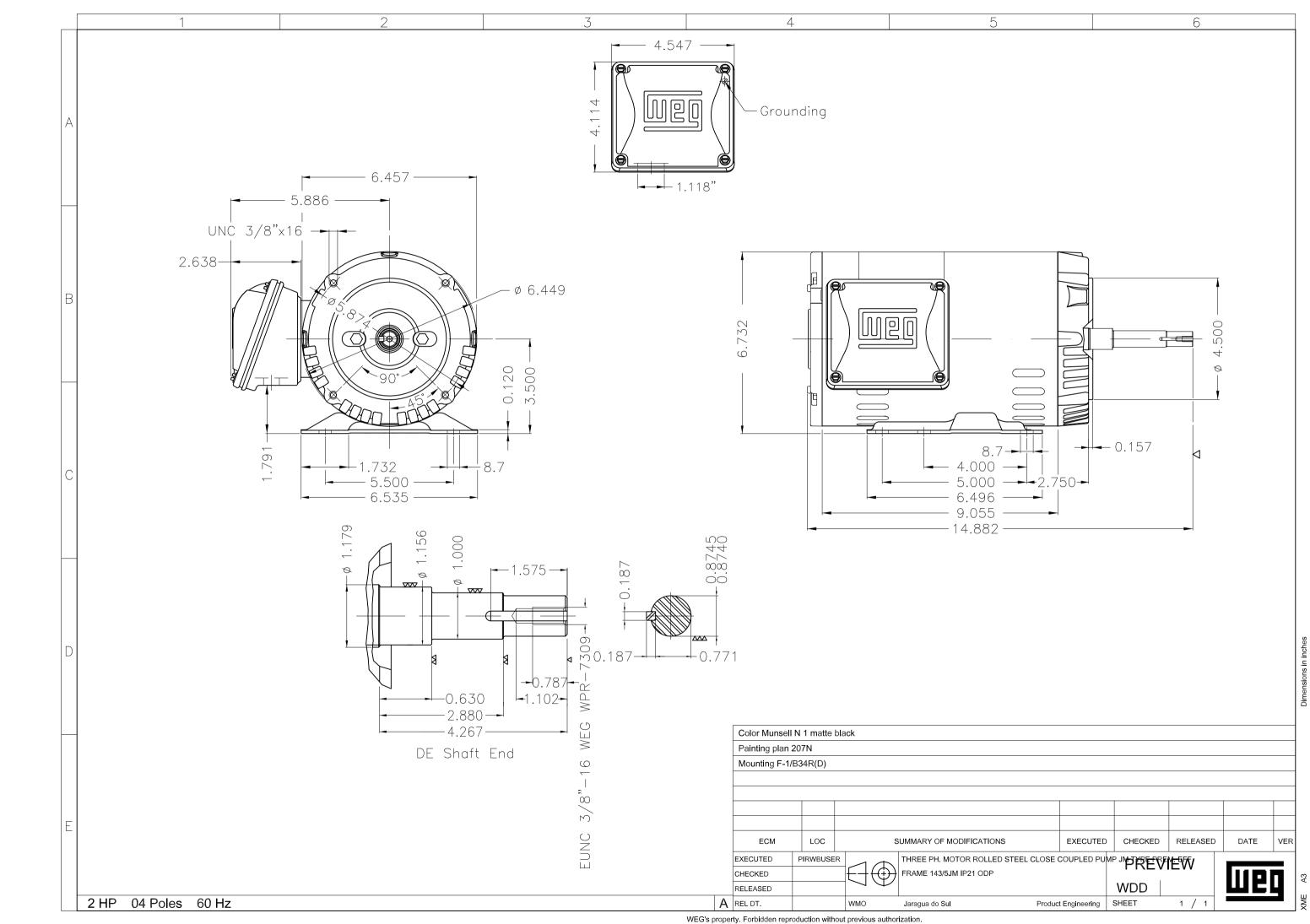
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Revision



Performance	: 200/400 V 60 Hz 4P			
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	: 0.1168 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Performed by				









(**UL)**US LISTED 3PT9

Energy Verifi

**&** 

MODEL 002180T3V145JM-S B/N 8MAR2022

CC029A

12845335

MADE IN MÉXICO

N01.TODICOXON

Hz 60 143/5.IM

CONT

1000 m.a.s.l

200/400

F AT 80K

7.12/3.55

1.15

2°04

ODP NS CL INC. WB

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT ODE 6203-2Z CODE DES

86.5%

HER MON RPM SFA 냃 뿝

> T12 Ξ

8206-ZZ

牌

71-BLU

MOBIL POLYREX EM

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



T4-YEL T2-WH T6-GRY T8-RED

T10-CURRY T11-GRN T12-VLT T9-BRK RED

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