### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 12743185 Efficiency Three-Phase Catalog #: 02018OT3H256JM-S Frame : 254/6JM Locked rotor time : 27s (cold) 15s (hot) Output : 20 HP (15 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 : 20.0 A : IC01 - ODP L. R. Amperes : 126 A Mounting : F-1 : 6.3x(Code G) : Both (CW and CCW) LRC Rotation<sup>1</sup> No load current : 9.15 A Noise level<sup>2</sup> : 64.0 dB(A) Rated speed : 1770 rpm Starting method : Direct On Line : 226 lb Slip : 1.67 % Approx. weight<sup>3</sup> Rated torque : 59.3 ft.lb Locked rotor torque : 240 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.23 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 92.4 : 712 lb Efficiency (%) 92.4 93.0 Max. traction Power Factor 0.63 0.74 : 938 lb 0.81 Max. compression Non drive end Drive end 6208 Z C3 Bearing type 6309 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h 8 g

Lubricant amount : 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



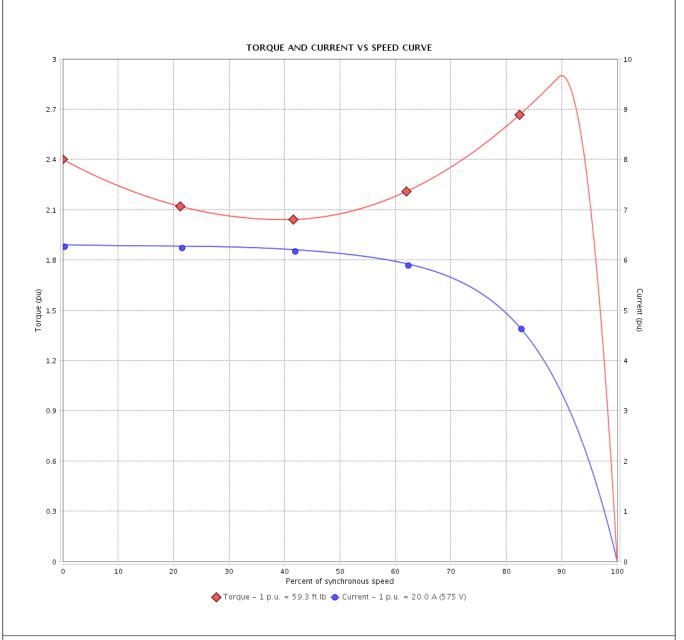
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743185

Catalog #: 02018OT3H256JM-S



Performance : 575 V 60 Hz 4P Rated current : 20.0 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

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

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### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



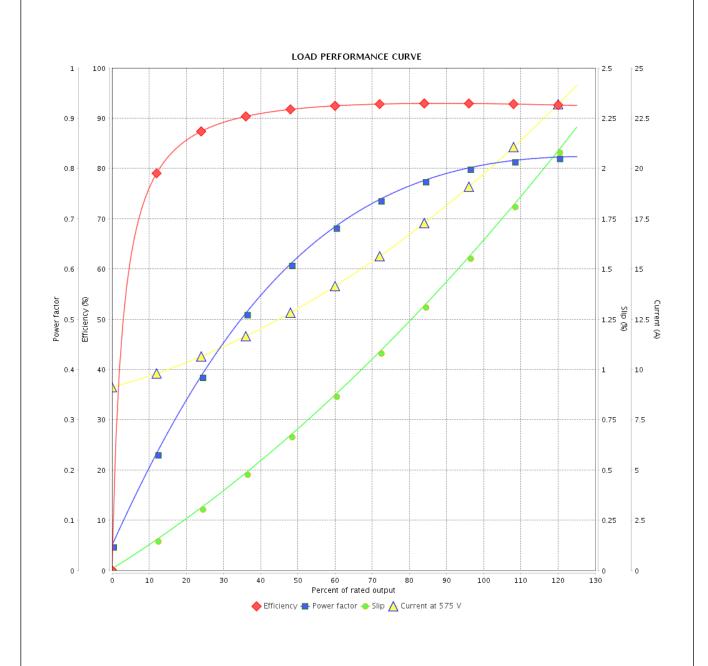
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743185

Catalog #: 02018OT3H256JM-S



Performance	: !	: 575 V 60 Hz 4P						
Rated current	: :	0.0 A Moment of inertia (J)		f inertia (J)	: 2.23 sq.ft.lb			
LRC	: (	6.3	Duty cycle		: Cont.(S1)			
Rated torque	: :	59.3 ft.lb	Insulation class		: F			
Locked rotor torque	e ::	240 %	Service factor		: 1.15			
Breakdown torque	: :	: 290 % : 1770 rpm		Temperature rise				
Rated speed	:				: B			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



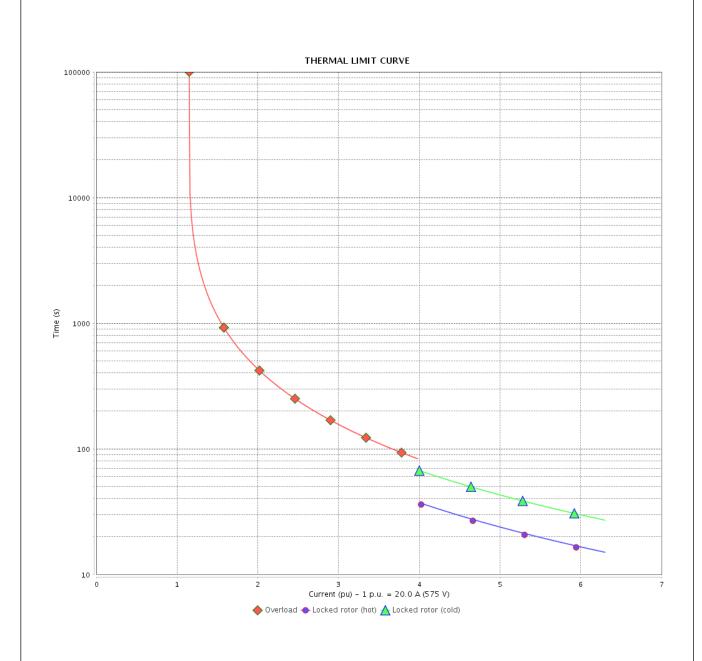
Customer	:					
Product line	:.	JM Pump NEMA Premium	I	Product code :	12743185	
		fficiency Three-Phase	(	Catalog # :	02018OT3H2	56JM-S
Performance		75 V 60 Hz 4P				
Rated current LRC	: 20 : 6.	).0 A 3	Moment of Duty cycle	f inertia (J)	: 2.23 sq.ft.lb : Cont.(S1)	
Rated torque	: 59	9.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		40 % 90 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		770 rpm	Design		: B	
Heating constant	t					
Cooling constant	<u> </u>					
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Checked by					Page	Revision
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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

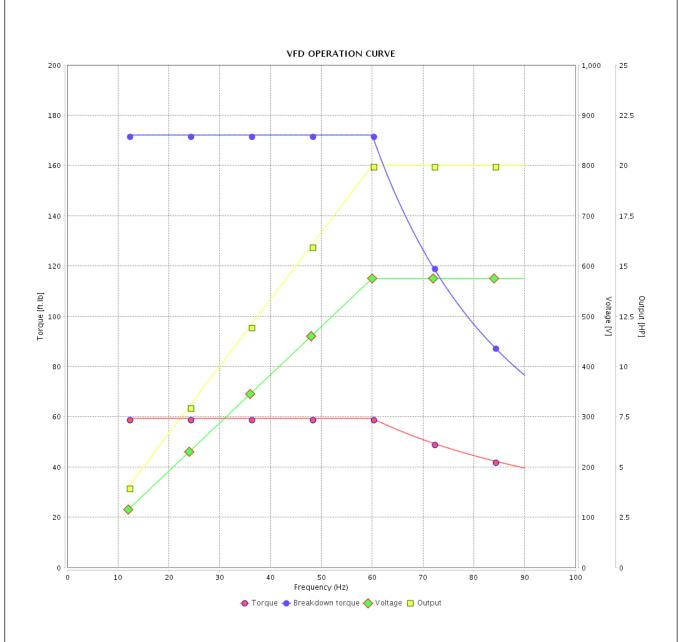
Product code: 12743185

Catalog #: 02018OT3H256JM-S

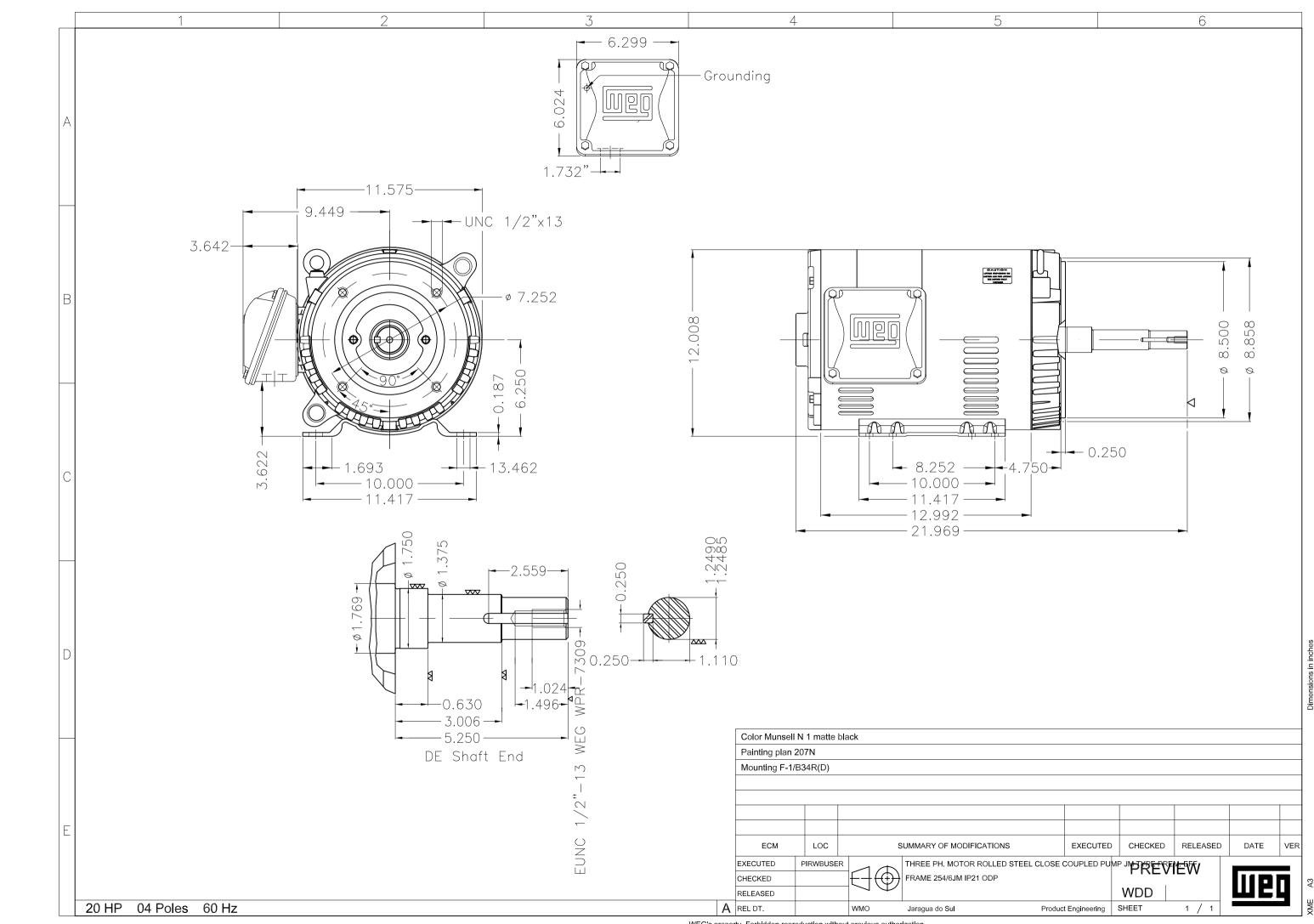
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Revision



Performance	: 575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.0 A : 6.3 : 59.3 ft.lb : 240 % : 290 % : 1770 rpm	: 6.3 Duty cycle : 59.3 ft.lb Insulation class : 240 % Service factor : 290 % Temperature rise		: 2.23 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						





MADE IN MÉXICO





**&** Energy Verified

3PT9

CC029A JM020504DPNPW01 N01.TO0IC0X0N 12743185

S/N 09MAR2022

Hz 60

254/6JM

CONT

1000 m.a.s.l F AT 80K

1.15 575 20.0 23.0

DES

2°04 ODP

SCI INC. 8

3FA 쑮 쌆

> U CODE

NEMA

NOM. EFF 93.0% RPM

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

ODE 6208-Z-C3

9

8309-Z-C3

牌

ME XERY POLYREX EM

2000bh

T1-BLU



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

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



