### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 13500641 Efficiency Three-Phase Catalog #: 02536OT3H256JMV-S Frame : 254/6JM Locked rotor time : 16s (cold) 9s (hot) Output : 25 HP (18.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V Altitude : 1000 m.a.s.l. : IC01 - ODP Cooling method Rated current : 23.3 A L. R. Amperes : 147 A Mounting : W-6 : Both (CW and CCW) LRC : 6.3x(Code G) Rotation<sup>1</sup> No load current : 9.12 A Noise level<sup>2</sup> : 70.0 dB(A) Rated speed : 3530 rpm Starting method : Direct On Line : 190 lb Slip : 1.94 % Approx. weight<sup>3</sup> Rated torque : 37.2 ft.lb Locked rotor torque : 180 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.9155 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 91.7 : 422 lb Efficiency (%) 90.8 91.0 91.7 Max. traction Power Factor 0.46 0.87 0.73 0.83 Max. compression : 612 lb Non drive end Drive end 6208 Z C3 Bearing type 6309 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 15797 h 20000 h Lubricant amount 8 g 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



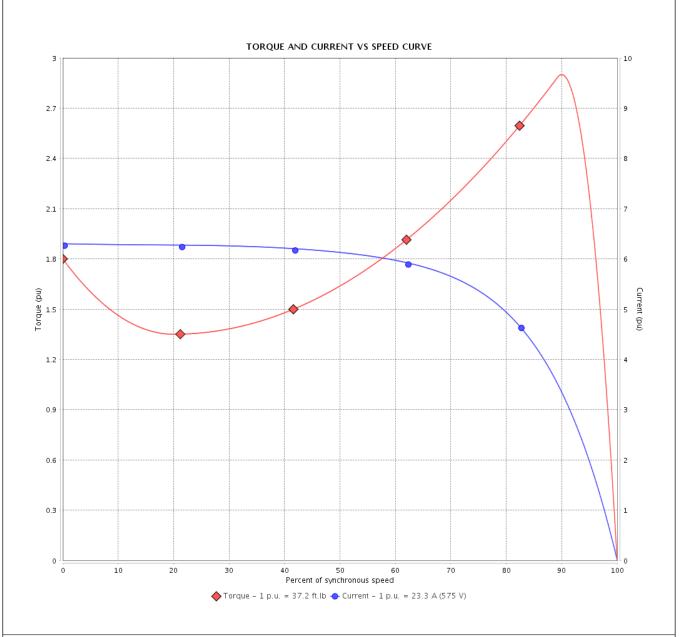
Customer :

Product line : JM Pump NEMA Premium Product code :

Efficiency Three-Phase

Product code: 13500641

Catalog #: 02536OT3H256JMV-S



Performance	: 575 V 60 Hz 2P			
Rated current	: 23.3 A	Moment of inertia (J)	: 0.9155 sq.ft.lb	
LRC	: 6.3	Duty cycle	: Cont.(S1)	
Rated torque	: 37.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 3530 rpm	Design	: B	
Laster destantions	. 40- (1-1) 0- (11-1)	I		

Locked rotor time : 16s (cold) 9s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



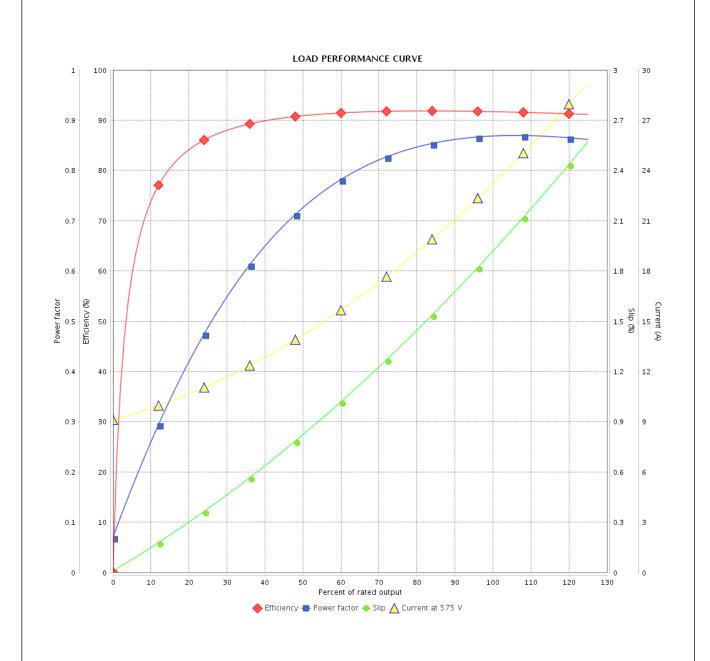
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13500641

Catalog #: 02536OT3H256JMV-S



Performance	:	575 V 60 Hz 2P					
Rated current		23.3 A	Moment o	Moment of inertia (J)		.lb	
		6.3		Duty cycle			
		37.2 ft.lb		Insulation class		: Cont.(S1) : F	
Locked rotor torque		180 %	Service fa	Service factor		: 1.15	
Breakdown torque	e :	290 %	Temperati	Temperature rise			
Rated speed	:	3530 rpm Design		: B			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



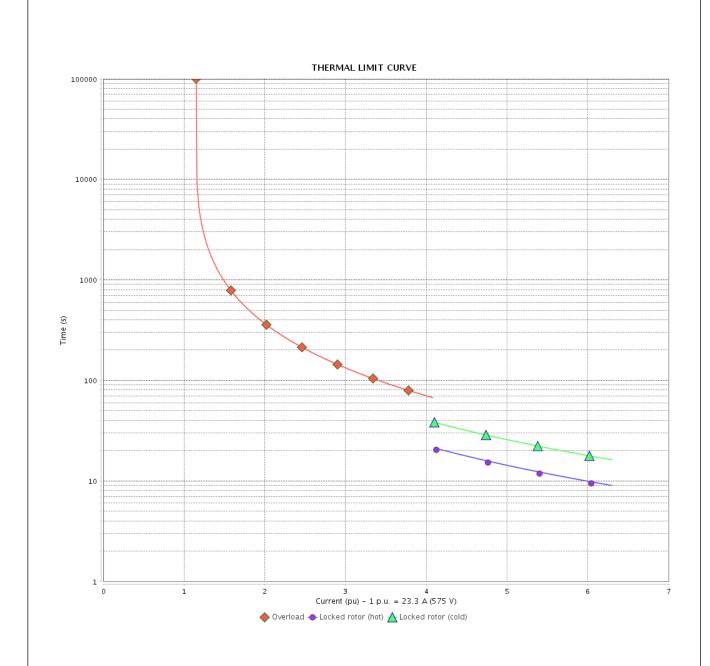
Customer	:					
Product line	:.	JM Pump NEMA Premium	I	Product code :	13500641	
		fficiency Three-Phase	(	Catalog # :	02536OT3H2	256JMV-S
Performance		75 V 60 Hz 2P				
Rated current LRC	: 23 : 6.	3.3 A 3	Moment of Duty cycle	f inertia (J)	: 0.9155 sq.ft.l : Cont.(S1)	b
Rated torque	: 37	7.2 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		30 % 90 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		530 rpm	Design		: B	
Heating constant						
Cooling constant			1		1	
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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



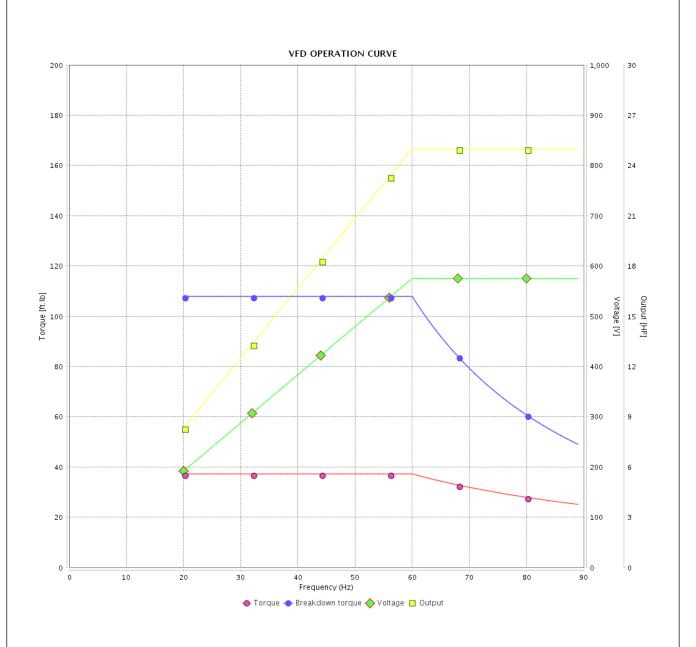
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13500641

Catalog #: 02536OT3H256JMV-S

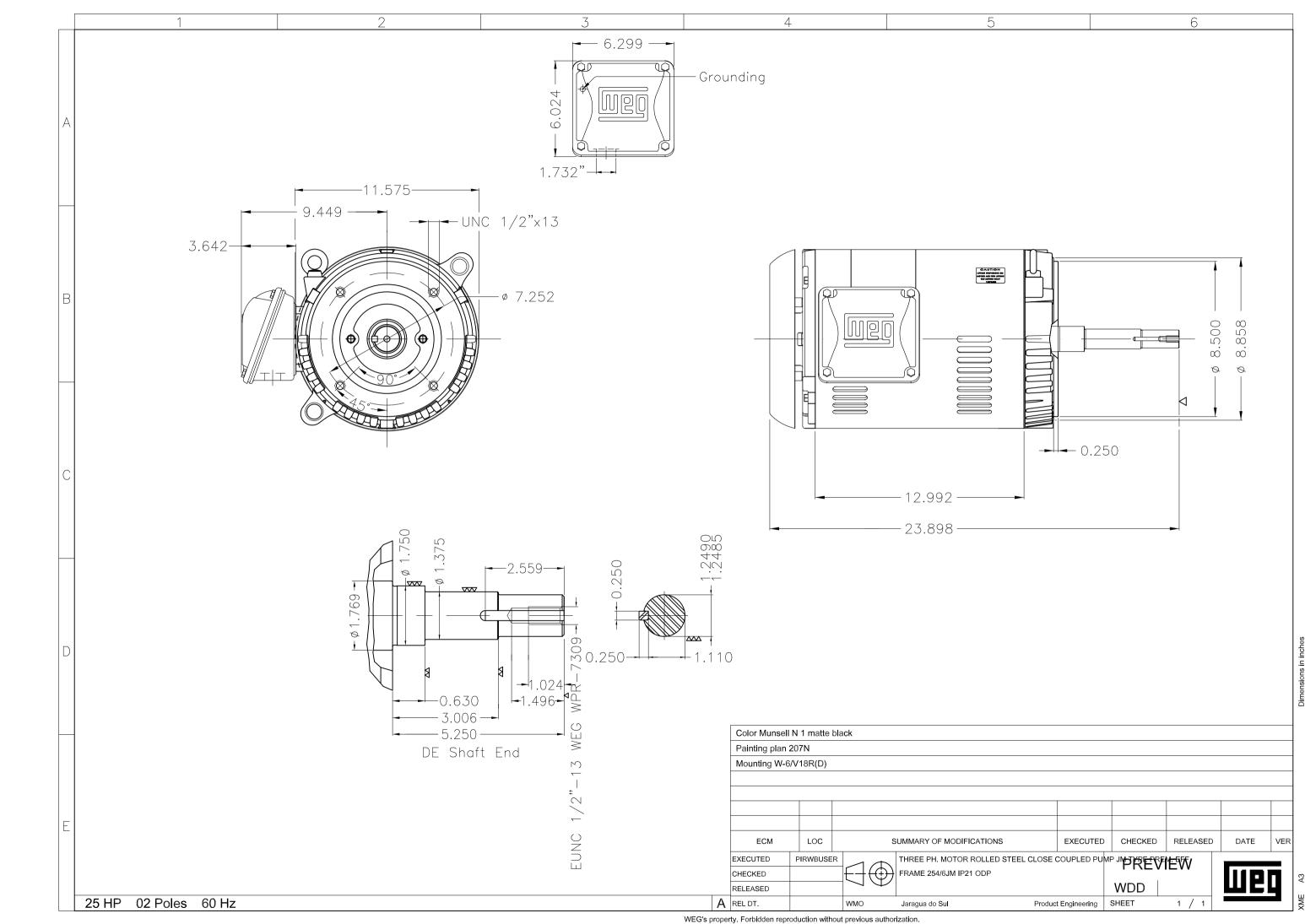


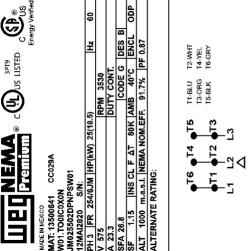
Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 23.3 A : 6.3 : 37.2 ft.lb : 180 % : 290 % : 3530 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9155 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Date





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INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

15797h 6309-Z-C3 | ODE: 6208-Z-C3 | MOBIL POLYREX EM | Inverter duty motor For use on VPWM 1000:1 VT, 3:1 CT

WARNING: Motor must be grounded in accordance with local and nationa electrical codes to prevent serious electrical shocks. Disconnect nower AVERTISSEMENT: Le moteur doit être mis à la terre conformément

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine

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

source before servicing unit.