DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 12951402 Efficiency Three-Phase Catalog #: 01518OT3V254JM-S Frame : 254/6JM Locked rotor time : 30s (cold) 17s (hot) Output : 15 HP (11 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 42.8/21.4 A : IC01 - ODP L. R. Amperes : 287/143 A Mounting : F-1 : Both (CW and CCW) LRC : 6.7x(Code H) Rotation¹ No load current : 21.9/10.9 A Noise level² : 64.0 dB(A) Rated speed : 1775 rpm Starting method : Direct On Line : 203 lb Slip : 1.39 % Approx. weight³ Rated torque : 44.4 ft.lb : 240 % Locked rotor torque Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.82 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 : 537 lb Efficiency (%) 91.0 91.7 92.4 Max. traction Power Factor 0.62 0.80 : 740 lb 0.36 0.73 Max. compression Non drive end Drive end 6309 Z C3 6208 Z C3 Bearing type Sealing Without Bearing Seal Without Bearing Seal

Bearing type : 6309 Z C3 6208 Z C3
Sealing : Without Bearing Seal Without Bearing Se
Lubrication interval : 20000 h
Lubricant amount : 13 g 8 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



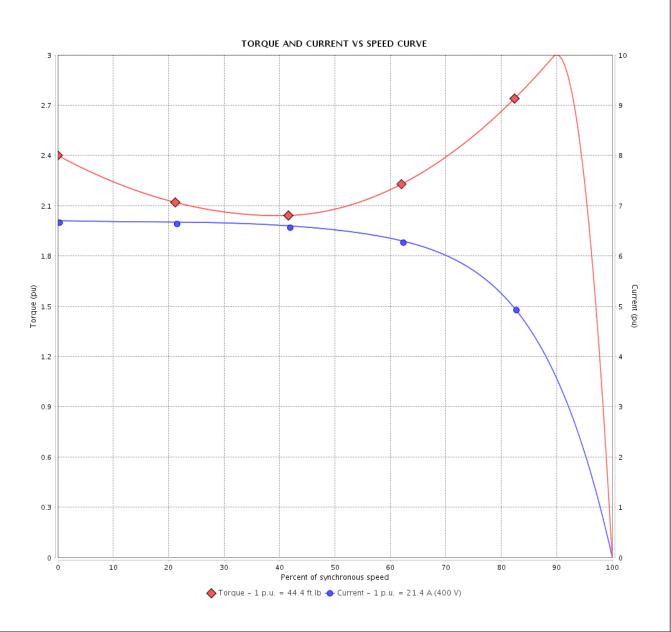
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12951402

Catalog #: 01518OT3V254JM-S



Performance : 200/400 V 60 Hz 4P Rated current : 42.8/21.4 A Moment of inertia (J) : 1.82 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



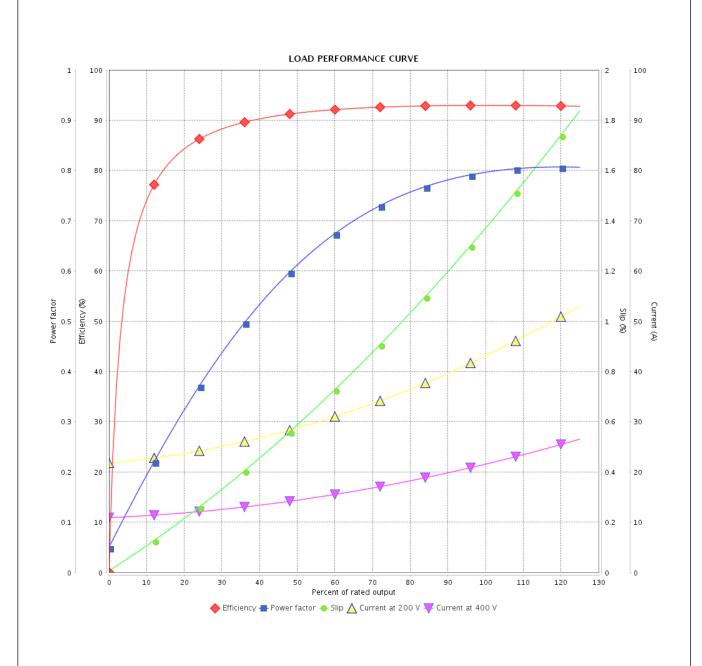
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12951402

Catalog #: 01518OT3V254JM-S



Performance ::		: 200/400 V 60 Hz 4P					
Rated current		42.8/21.4 A	Moment of inertia (J)		: 1.82 sq.ft.lb		
LRC : 0		6.7	Duty cycle	Duty cycle			
Rated torque		44.4 ft.lb	Insulation class		: F		
Locked rotor tord	que : 2	240 %	Service fa	Service factor			
Breakdown torque		300 % Temperatu		ıre rise	: 80 K		
Rated speed	: 1	: 1775 rpm			: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



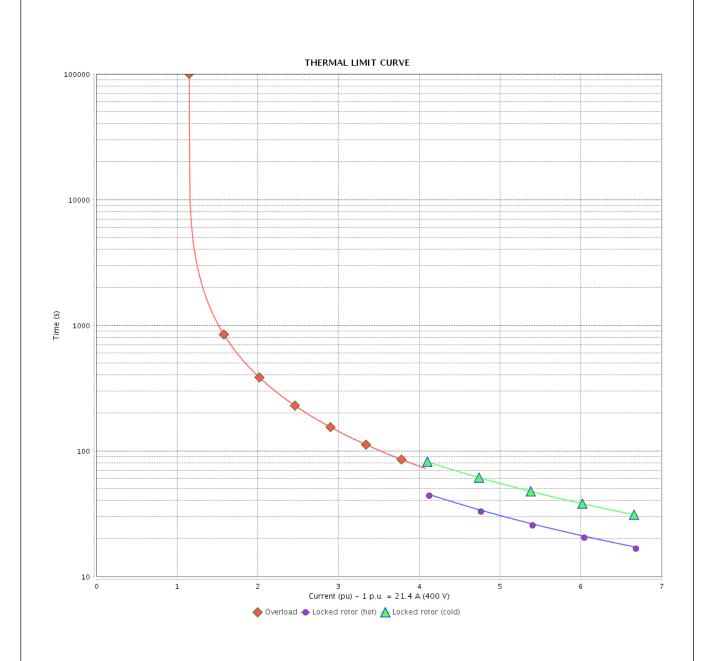
Customer	:					
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12951402	
				Catalog # :	01518OT3V2	54JM-S
Performance		00/400 V 60 Hz 4P				
Rated current LRC	: 42 : 6.	2.8/21.4 A 7	Moment of Duty cycle	f inertia (J)	: 1.82 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	4.4 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		40 % 00 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		775 rpm	Design		: B	
Heating constant						
Cooling constant			Т			
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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



Revision

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Customer :

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Date

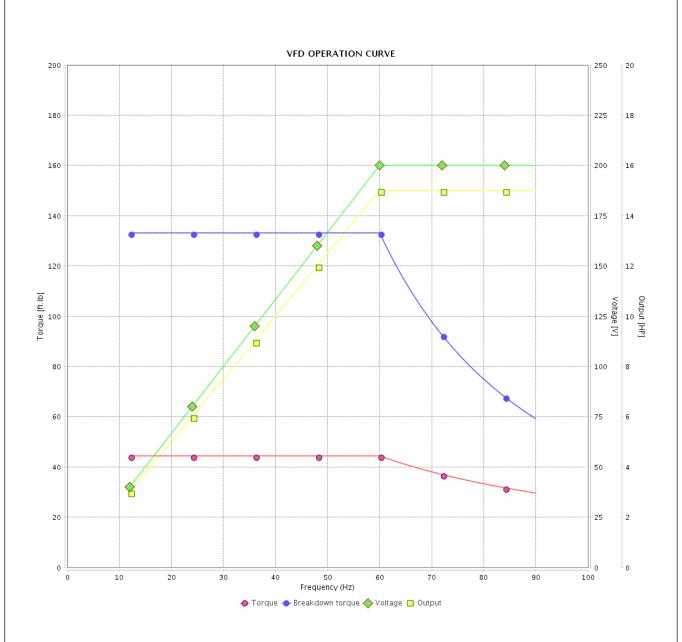
13/04/2022

Product line : JM Pump NEMA Premium

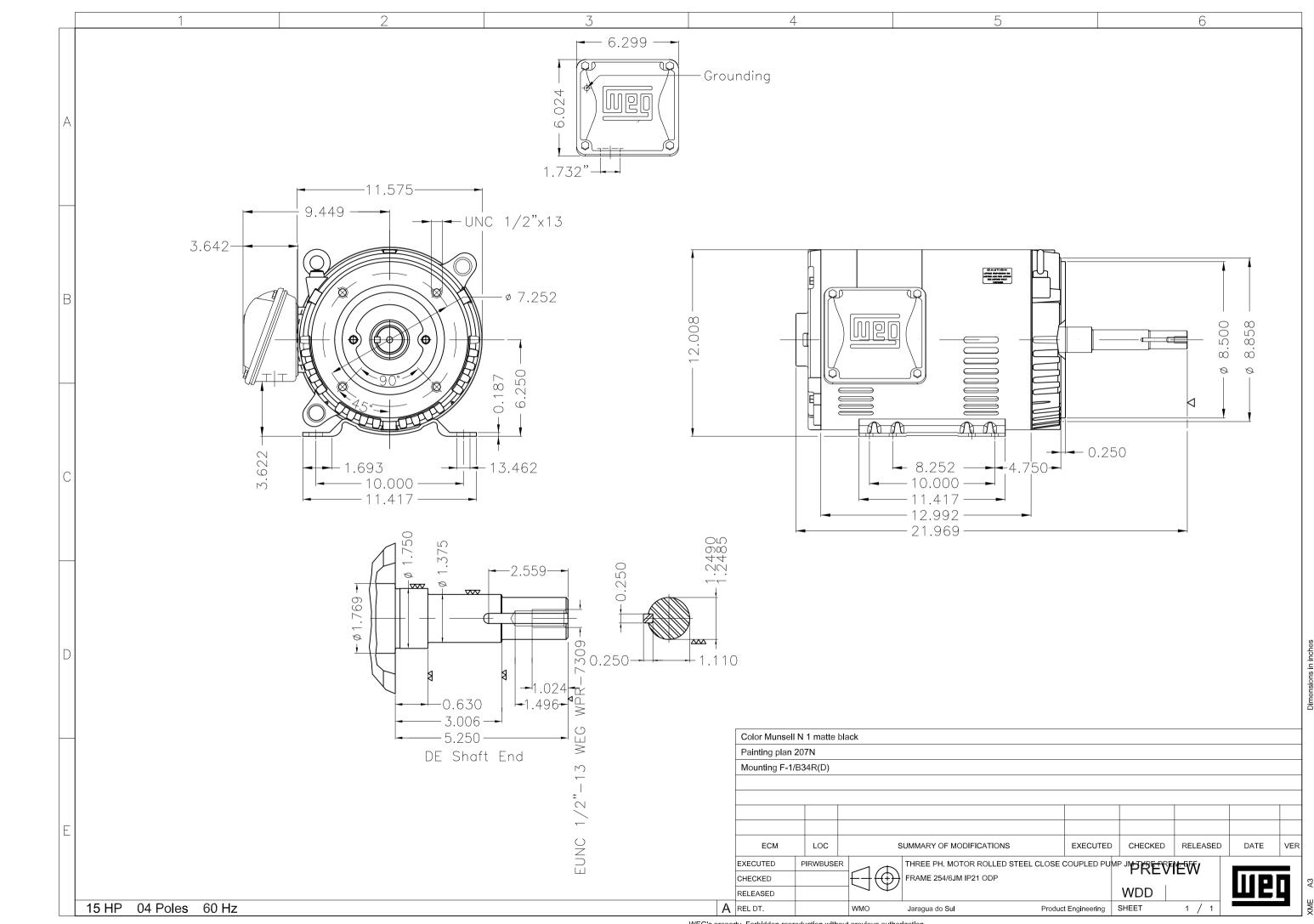
Efficiency Three-Phase

Product code: 12951402

Catalog #: 01518OT3V254JM-S



Performance : 200/400 V 60 Hz 4P Rated current : 42.8/21.4 A Moment of inertia (J) : 1.82 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by







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3PT9



Energy Verifi

CC029A

9 S/N ¥

MODEL 015180T3V254JM-S

TOOICOXON.

12951402

MADE IN MÉXICO

254/6JM CONT

200/400 12.8/21

> DES 1000 m.a.s.l F AT 80K 2°04

> > SCL INC.

CODE

ODP

ZPM SFA 냃 뿝

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT NOM. EFF 93.0% 6208-Z-C3

2000bh

MOBIL POLYREX EM

ODE

8309-Z-C3

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MOT



T8-RED

T10-CURRY T11-GRN T12-VLT T9-BRK RED NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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

777

nentation avant l'entretien de la machine

choc électrique grave. Déconnectez l'alli

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre WARNING: Motor must be grounded in accordance with local nd national electrical codes to prevent serious electrical