DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 12845394 Efficiency Three-Phase Catalog #: 00518OT3V184JM-S Frame : 182/4JM Locked rotor time : 21s (cold) 12s (hot) Output : 5 HP (3.7 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 : 14.6/7.28 A : IC01 - ODP L. R. Amperes : 105/52.4 A Mounting : F-1 : Both (CW and CCW) LRC : 7.2x(Code J) Rotation¹ No load current : 7.24/3.62 A Noise level² : 55.0 dB(A) Rated speed : 1760 rpm Starting method : Direct On Line Slip : 2.22 % Approx. weight³ : 89.2 lb Rated torque : 14.9 ft.lb : 200 % Locked rotor torque Breakdown torque : 310 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.4003 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 87.5 88.5 88.5 89.5 : 251 lb Efficiency (%) Max. traction : 340 lb Power Factor 0.76 0.82 0.38 0.63 Max. compression Drive end Non drive end Bearing type 6207 ZZ 6205 ZZ Sealing Without Bearing Seal Without Bearing Seal Lubrication interval Lubricant amount

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



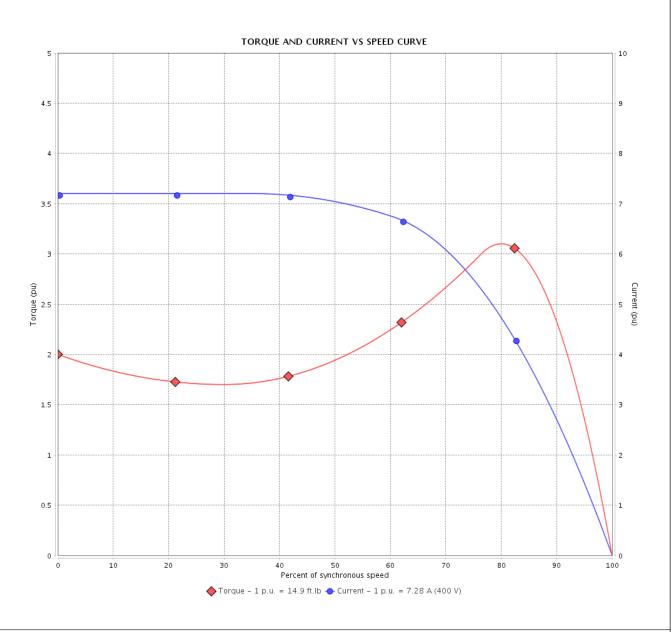
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12845394

Catalog #: 00518OT3V184JM-S



Performance : 200/400 V 60 Hz 4P Rated current : 14.6/7.28 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 14.9 ft.lb : 200 % Service factor Locked rotor torque : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



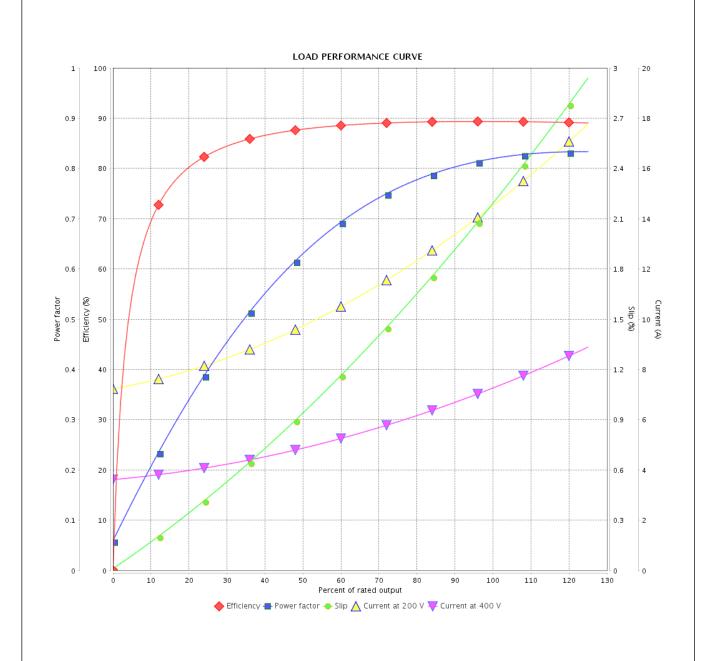
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12845394

Catalog #: 00518OT3V184JM-S



Performance :		200/400 V 60 Hz 4P					
Rated current		14.6/7.28 A	Moment of inertia (J)		: 0.4003 sq.ft.lb		
LRC		7.2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		14.9 ft.lb	lb Insulation class		: F		
Locked rotor torque		200 %	Service factor		: 1.15		
Breakdown torqu	ue :	310 %	Temperati	Temperature rise			
Rated speed	:	: 1760 rpm Design			: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



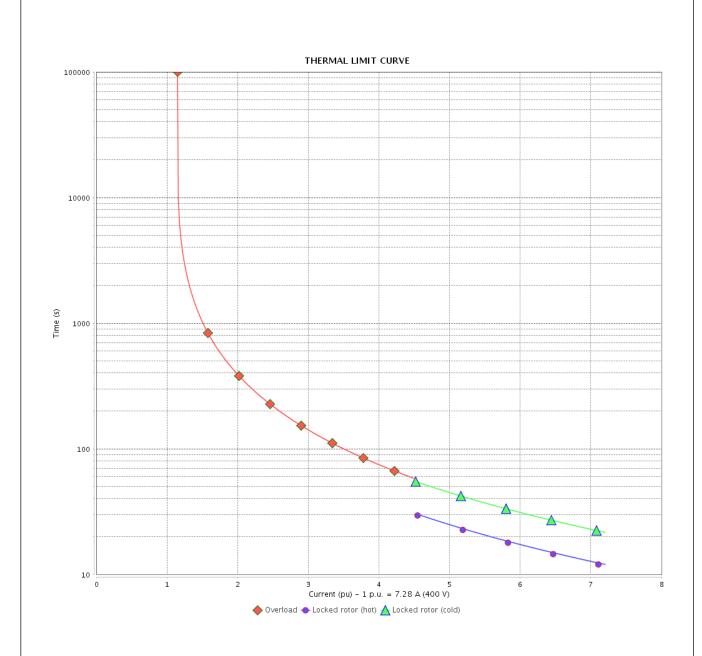
Customer	:					
Product line	:,	JM Pump NEMA Premium	Į.	Product code :	12845394	
	E [.]	fficiency Three-Phase	(Catalog # :	00518OT3V	184 IM-S
Performance		00/400 V 60 Hz 4P				
Rated current LRC Rated torque	: 7.	4.6/7.28 A 2 4.9 ft.lb	Moment of Duty cycle Insulation		: 0.4003 sq.ft.l : Cont.(S1) : F	b
Locked rotor torque Breakdown torque Rated speed	ue : 20 le : 3	00 % 10 % 760 rpm	Service fac Temperatu Design	ctor	: 1.15 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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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

12/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

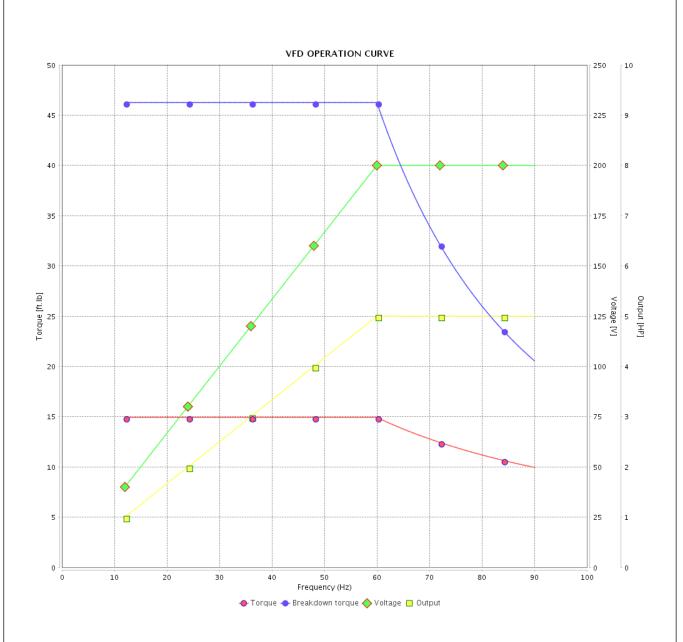
Product code: 12845394

Catalog #: 00518OT3V184JM-S

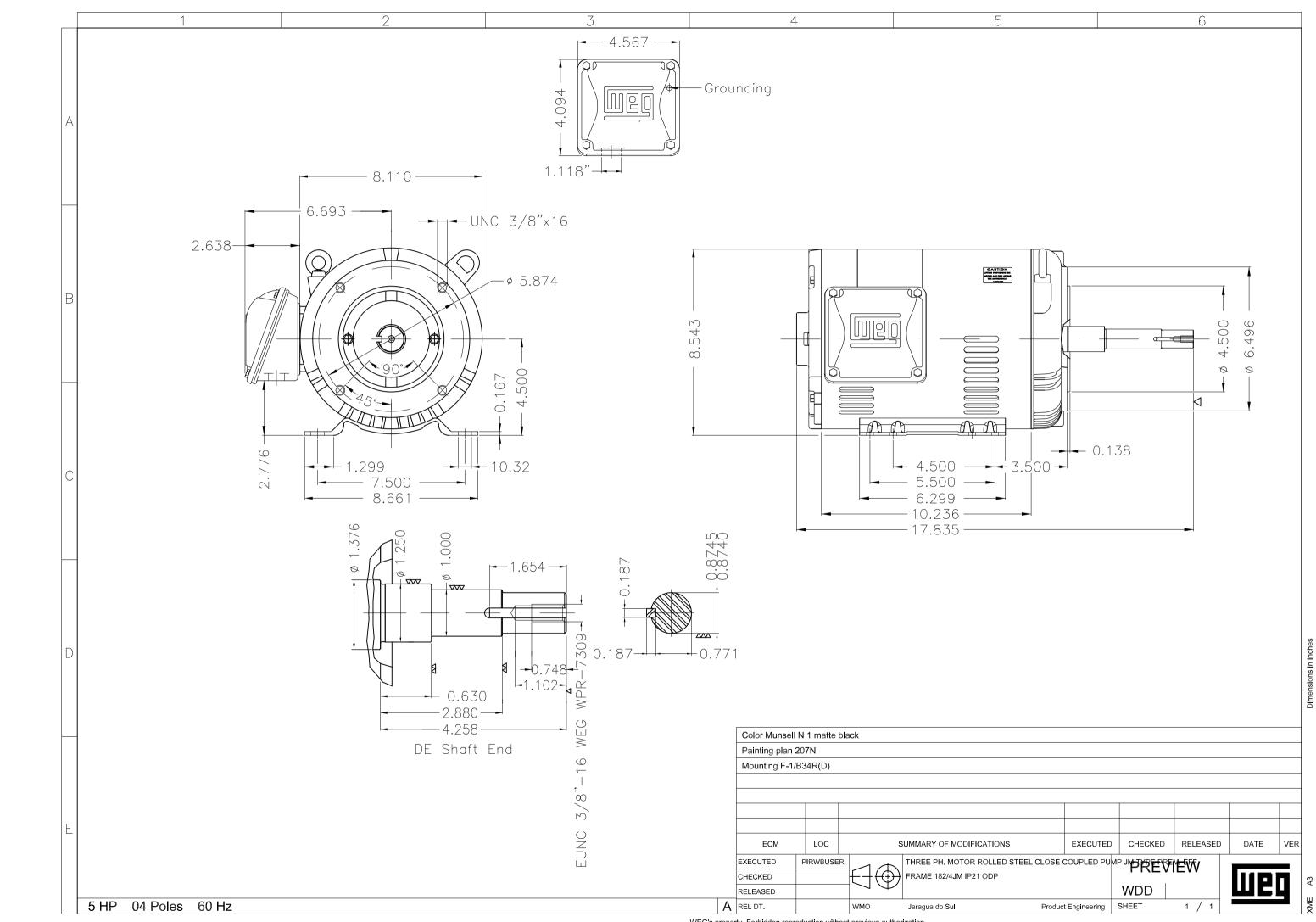
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Revision



Performance	:	: 200/400 V 60 Hz 4	IP			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 14.6/7.28 A : 7.2 : 14.9 ft.lb : 200 % : 310 % : 1760 rpm	Duty cy Insulati Service	on class	: 0.4003 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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UL)US LISTED 3PT9

Energy Verifi

AODEL 00518OT3V184JM-S S/N V01.TO0IC0X0N 3FEB2022

CC029A

12845394

MADE IN MÉXICO

Hz 60 182/4.IM

CONT

1000 m.a.s.l

F AT 80K

14.6/7.28 16.8/8.37

1.15

2°04

SCL INC. 2

ODP

SFA 냃

200/400

3000 DES

ZPM 뿝

HAM MON

89.5%

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

8205-ZZ

ODE

8207-ZZ

111

T4-YEL

L2-WH T6-GRY T8-RED T9-BRK RED

71-BLU 13-ORG F5-BLK L7-PNK

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MOT

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION







nentation avant l'entretien de la machine

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

choc électrique grave. Déconnectez l'alli

44**1**1

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