### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code: 14243693

Efficiency Three-Phase

Catalog #: 02536OT3E256JM-SG

Frame : 254/6JM Cooling method : IC01 - ODP

Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup>

: Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 194 lb

Design		: B	Moment of inertia (J)	: 0.9155 sq.ft.lb
Output [HP]		25	25	25
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		58.2/29.1	70.6/35.3	64.1/34.0
L. R. Amperes [A]		367/183	374/187	378/201
LRC [A]		6.3x(Code G)	5.3x(Code E)	5.9x(Code F)
No load current [A	]	22.8/11.4	22.3/11.2	24.0/12.7
Rated speed [RPN	<b>/</b> 1]	3530	2905	2910
Slip [%]		1.94	3.17	3.00
Rated torque [ft.lb]		37.2	45.2	45.1
Locked rotor torque [%]		180	150	170
Breakdown torque [%]		290	220	240
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		70.0 dB(A)	68.0 dB(A)	68.0 dB(A)
	25%	90.8	92.6	91.9
Efficiency (%)	50%	91.0	91.1	90.9
Efficiency (%)	75%	91.7	90.3	90.6
	100%	91.7	88.5	89.3
	25%	0.46	0.53	0.48
Power Factor	50%	0.73	0.80	0.75
I OWELL ACTOL	75%	0.83	0.87	0.85
	100%	0.87	0.90	0.88

Drive end Non drive end Foundation loads

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 422 lb Sealing Without Without Max. compression : 616 lb

Bearing Seal Bearing Seal

Lubrication interval 20000 h 20000 h Lubricant amount 8 g 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 64.3A SF 1.00 SFA 64.3A

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



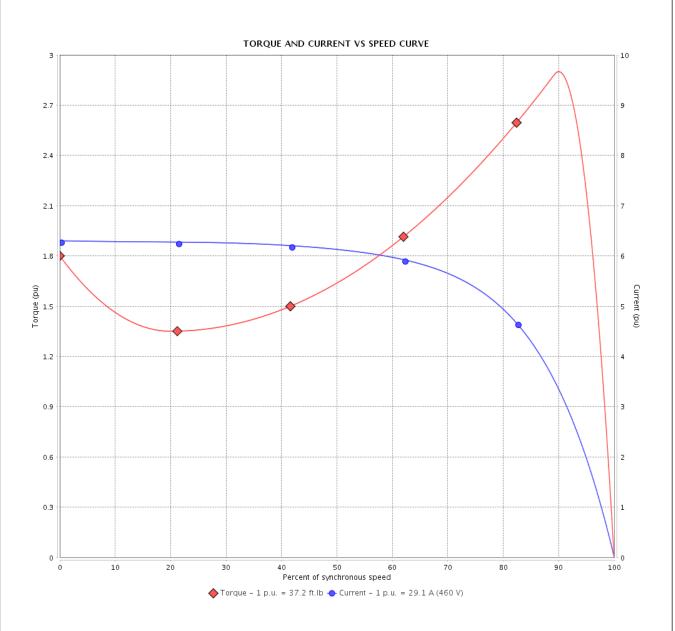
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14243693

Catalog #: 02536OT3E256JM-SG



Performance	: 230/460 V 60 Hz 2P			
Rated current	: 58.2/29.1 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	
Locked rotor time	: 16e (cold) 9e (hot)			

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

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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: 14243693 Efficiency Three-Phase Catalog #: 02536OT3E256JM-SG TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25

Performance : 190/380 V 50 Hz 2P Rated current : 70.6/35.3 A Moment of inertia (J) : 0.9155 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 45.2 ft.lb Insulation class : F Rated torque : 150 % Locked rotor torque Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

Percent of synchronous speed ◆ Torque - 1 p.u. = 45.2 ft.lb ◆ Current - 1 p.u. = 35.3 A (380 V)

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#### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



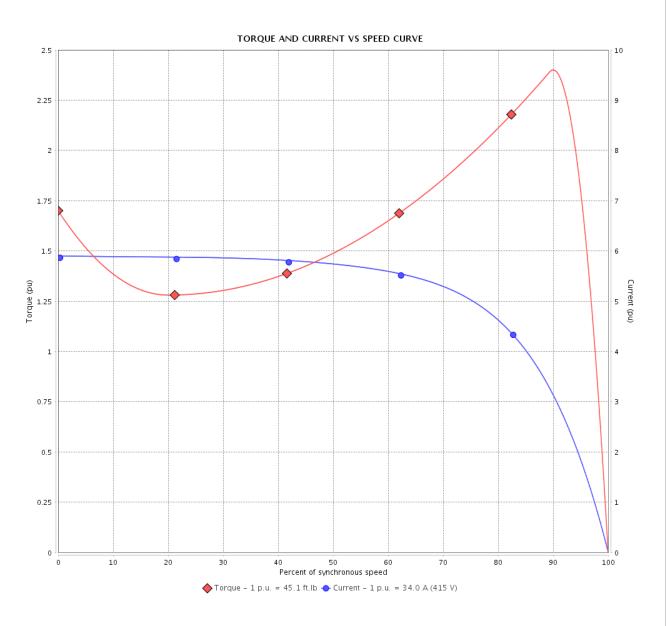
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14243693

Catalog #: 02536OT3E256JM-SG



Performance : 220/415 V 50 Hz 2P Rated current : 64.1/34.0 A Moment of inertia (J) : 0.9155 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 45.1 ft.lb Service factor Locked rotor torque : 170 % : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B

Locked rotor time : 0s (cold) 0s (hot)

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



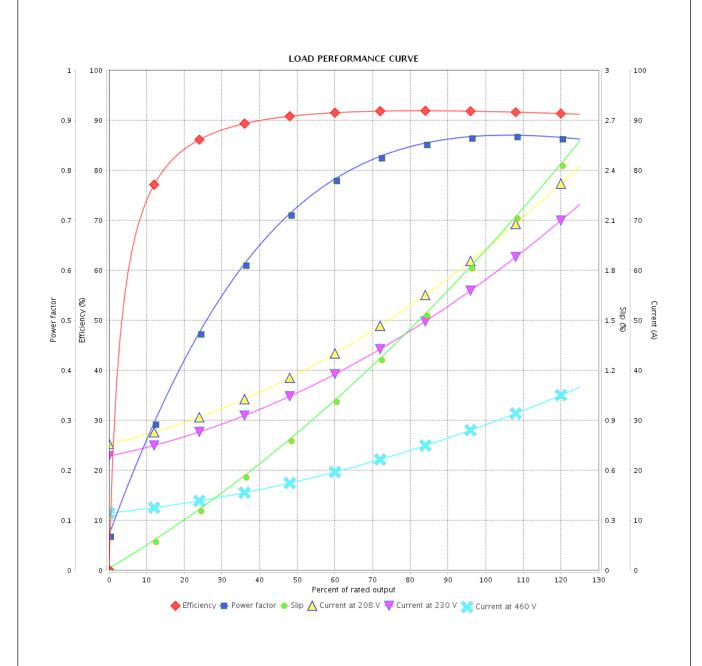
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14243693

Catalog #: 02536OT3E256JM-SG



Performance : 230/460 V 60 Hz 2P						
Rated current : 58.2/29.1 A		58.2/29.1 A	Moment o	f inertia (J)	: 0.9155 sq.ft.lb	
LRC	:	6.3	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	:	37.2 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	180 %	Service fa	ctor	: 1.15	
Breakdown torque		290 %	Temperature rise		: 80 K	
Rated speed : 35		3530 rpm	Design : B			
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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



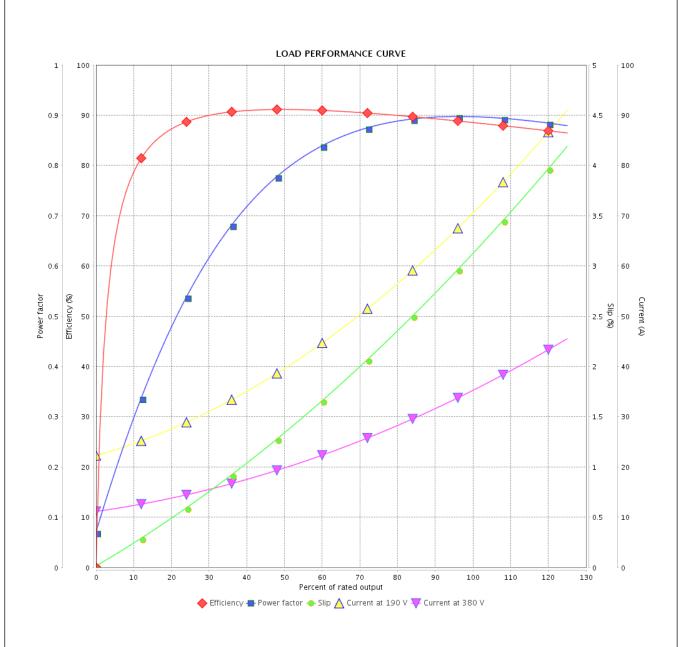
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14243693

Catalog #: 02536OT3E256JM-SG



Performance	: 190/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 70.6/35.3 A : 5.3 : 45.2 ft.lb : 150 % : 220 % : 2905 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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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



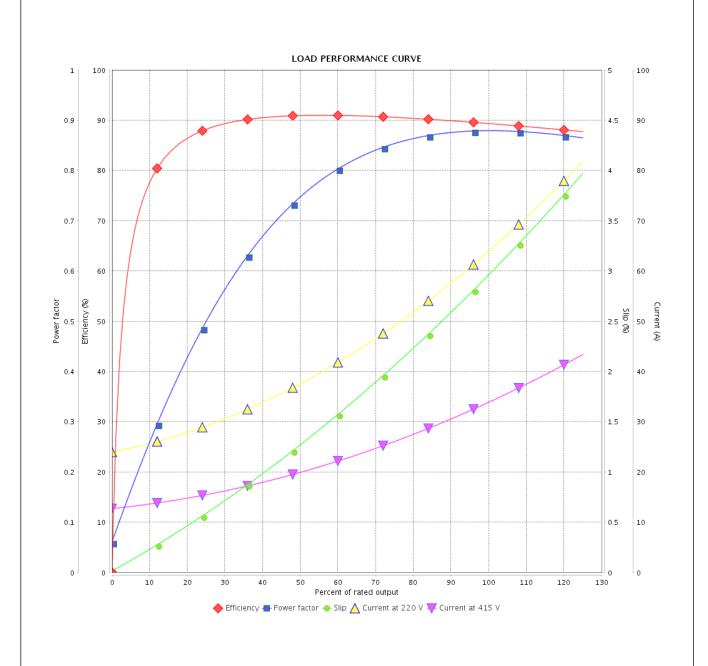
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14243693

Catalog #: 02536OT3E256JM-SG



Performance	: 22	220/415 V 50 Hz 2P				
Rated current	: 64	4.1/34.0 A	.1/34.0 A Moment of inertia (J)		: 0.9155 sq.ft.	lb
LRC	: 5.	.9	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4	5.1 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 1	70 %	Service fa	ictor	: 1.15	
Breakdown torqu	down torque : 240 % Temperatu		Temperature rise : 80 K			
Rated speed : 2910		910 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

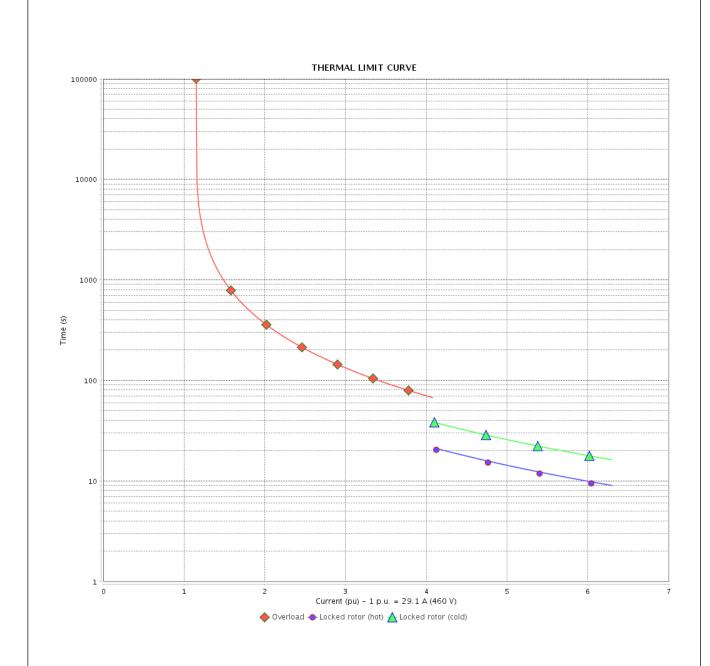


Customer	:					
Product line	: .	JM Pump NEMA Premium	ı	Product code :	14243693	
	Ei	Efficiency Three-Phase		Catalog # :	02536OT3E2	256JM-SG
					020000.02	
Performance		30/460 V 60 Hz 2P 3.2/29.1 A	Managart	Finantia (I)	. 0.0455 az #1	<b>L</b>
Rated current LRC	: 6.		Moment of Duty cycle	rineriia (J)	: 0.9155 sq.ft.l : Cont.(S1)	D
Rated torque		7.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		30 % 90 %	Service fac Temperatu		: 1.15 : 80 K	
Rated speed		530 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage

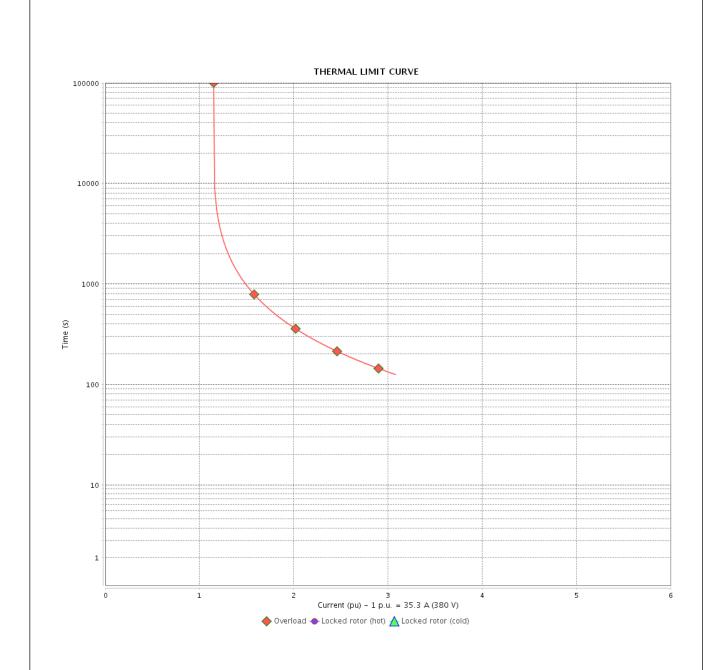


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Deciderat Pro-		IM Dumm NEMA Dumi		Decelulation of the state of th	44040000	
Product line	: E	JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14243693	
				Catalog # :	02536OT3E	256JM-SG
Performance		190/380 V 50 Hz 2P		· · · · · · · · · · · · · · · · · · ·	0.0455 %	
Rated current LRC		70.6/35.3 A 5.3	Duty cycle	f inertia (J)	: 0.9155 sq.ft. : Cont.(S1)	ID
Rated torque	: 4	15.2 ft.lb	Insulation	class	: F	
Locked rotor tord		150 % 220 %	Service fa		: 1.15 : 80 K	
Breakdown torqu Rated speed		220 % 2905 rpm	Temperatu Design	ire rise	: B	
Heating constan			-			
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer :



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#### Three Phase Induction Motor - Squirrel Cage

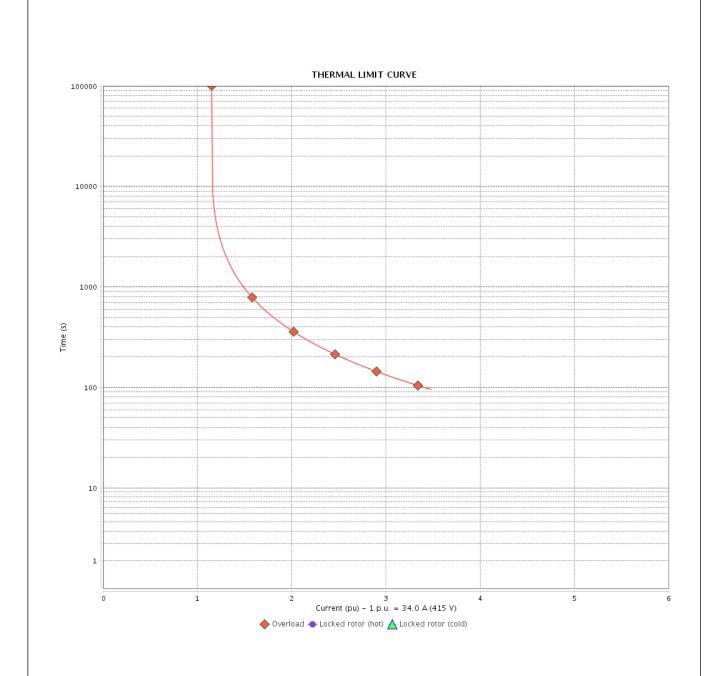


Customer		:				
Product line						
		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14243693	
		Lindoney Times Thats		Catalog # :	02536OT3E2	256JM-SG
Performance		220/415 V 50 Hz 2P 64.1/34.0 A	Managarta	finantia (1)	. 0.0455 a	h
Rated current LRC		5.9	Duty cycle	of inertia (J)	: 0.9155 sq.ft.l : Cont.(S1)	D
Rated torque	:	45.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		170 % 240 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		2910 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



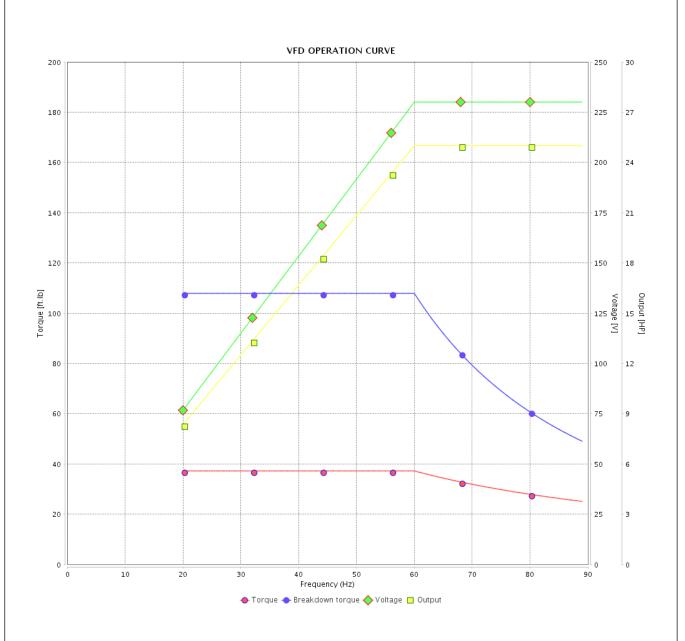
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14243693

Catalog #: 02536OT3E256JM-SG

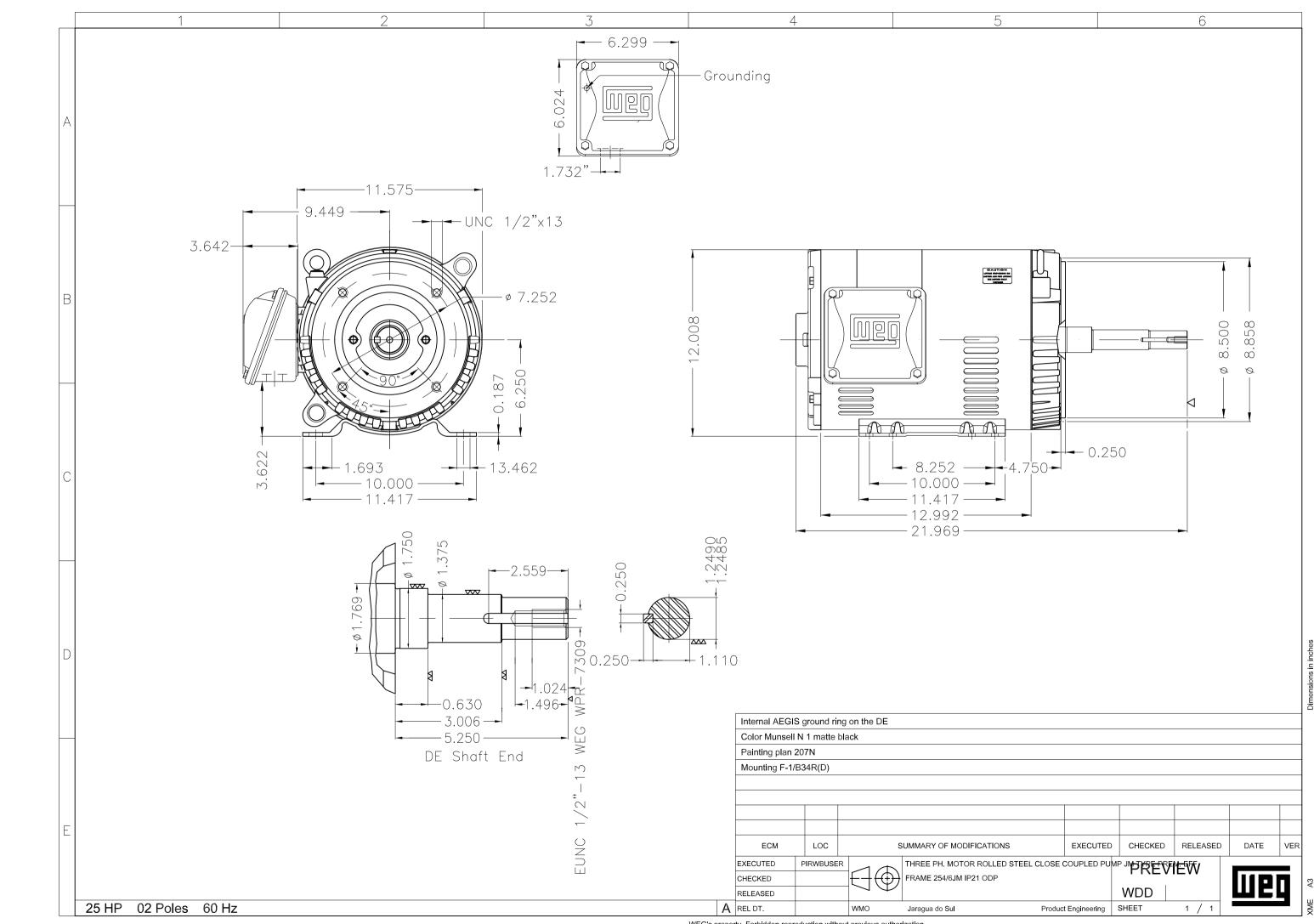


			·					
Performance	: 2	: 230/460 V 60 Hz 2P						
Rated current	: 5	8.2/29.1 A	Moment o	Moment of inertia (J)		: 0.9155 sq.ft.lb		
LRC	: 6	.3	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque	: 3	7.2 ft.lb	Insulation	Insulation class		: F		
Locked rotor tord	que : 1	80 %	Service fa	Service factor		: 1.15		
Breakdown torqu	ue : 2	90 %	Temperati	Temperature rise		: 80 K		
Rated speed	: 3	530 rpm	Design		: B			
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**8** Energy Verifi (**UL)**US LISTED 3PT9

> MODEL 025360T3E256JM-SG V01.TO0IC0X0N 7AUG2021

CC029A

14243693

MADE IN MÉXICO

9 S/N 걒 254/6JM

CONT

1000 m.a.s.l

230/460 58.2/29 1.15

56.9/33.5

CODE DES SABLE @ 208V 64 F AT 80K

20°C 900

S

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT U **25HP** 70.6-62.3/35.3-33.0A LTERNATE RATING:

SF1.00 INC. 문

EC 60034-1 2000bh

SF1.15

190-220/380-415V

91.7%

NOM EFF 2905RPM

50 Hz

**EFF 88.5%** 

ODE 6208-Z-C3

71-BLU 13-ORG

T11 OT12

MOBIL POLYREX EM

8309-Z-C3

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MOT

777

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

T9-BRK RED T10-CURRY L7-PNK





ind national electrical codes to prevent serious electrical

F11-GRN T12-VLT

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout 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