DATA SHEET

Three Phase Induction Motor - Squirrel Cage



92.1

0.45

0.73

0.83

0.88

Customer :

Product line : JP Pump NEMA Premium Product code : 13507708

Efficiency Three-Phase

Catalog # : 02536ET3E256JP-S

Frame : 254/6JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 247 lb Protection degree : IP55 Moment of inertia (J) : 1.31 sq.ft.lt

Moment of inertia (J) Protection degree : 1.31 sq.ft.lb Design : A Output [HP] 25 20 20 Poles 2 2 2 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 57.0/28.5 55.8/27.9 50.4/26.7 L. R. Amperes [A] 473/237 441/220 428/227 LRC [A] 8.3x(Code J) 8.5x(Code J) 7.9x(Code J) No load current [A] 20.3/10.8 20.1/10.0 19.8/9.91 Rated speed [RPM] 3530 2930 2940 Slip [%] 1.94 2.33 2.00 Rated torque [ft.lb] 37.2 35.8 35.7 Locked rotor torque [%] 240 229 260 Breakdown torque [%] 340 330 370 Service factor 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K Locked rotor time 14s (cold) 8s (hot) 14s (cold) 8s (hot) 14s (cold) 8s (hot) Noise level² 75.0 dB(A) 72.0 dB(A) 72.0 dB(A) 25% 90.8 92.6 92.4 50% 91.0 92.3 92.1 Efficiency (%) 75% 92.4 92.6 91.7

Drive end Non drive end Foundation loads

91.9

0.50

0.77

0.86

0.89

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 510 lb Sealing : V'Ring Without Max. compression : 757 lb

Bearing Seal
Lubrication interval : 15797 h 20000 h
Lubricant amount : 13 g 8 g

Mobil Polyrex EM

91.7

0.50

0.77

0.85

0.89

Notes

Power Factor

Lubricant type

USABLE @208V 63.0A SF 1.00 SFA 63.0A

100%

25%

50%

75%

100%

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



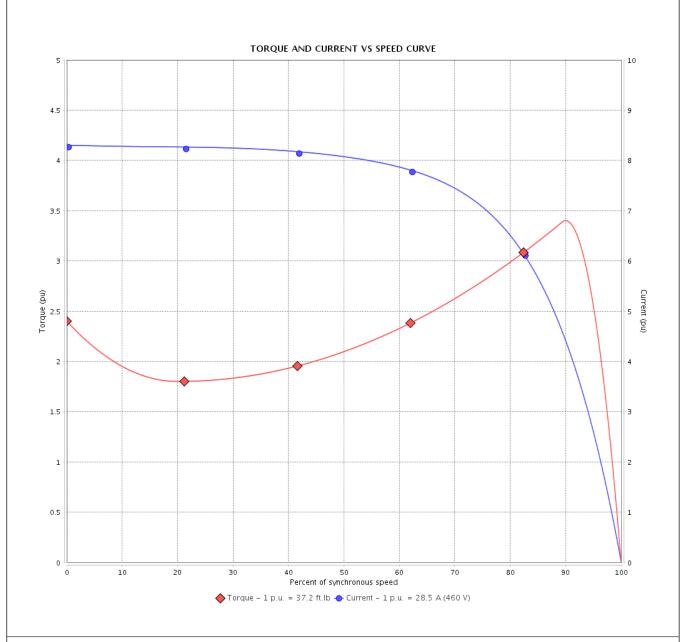
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13507708

Catalog #: 02536ET3E256JP-S



Performance : 230/460 V 60 Hz 2P Rated current : 57.0/28.5 A Moment of inertia (J) : 1.31 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : 37.2 ft.lb Insulation class Rated torque : F : 1.15 Locked rotor torque : 240 % Service factor

Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 3530 rpm Design : A

Locked rotor time : 14s (cold) 8s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage Customer Product line : JP Pump NEMA Premium Product code: 13507708 Efficiency Three-Phase Catalog #: 02536ET3E256JP-S TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ♦ Torque – 1 p.u. = 35.8 ft.lb ♦ Current – 1 p.u. = 27.9 A (380 V)

Performance : 190/380 V 50 Hz 2P Rated current : 55.8/27.9 A Moment of inertia (J) : 1.31 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : 35.8 ft.lb Insulation class : F Rated torque : 229 % Locked rotor torque Service factor : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2930 rpm Design : A

Locked rotor time : 14s (cold) 8s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



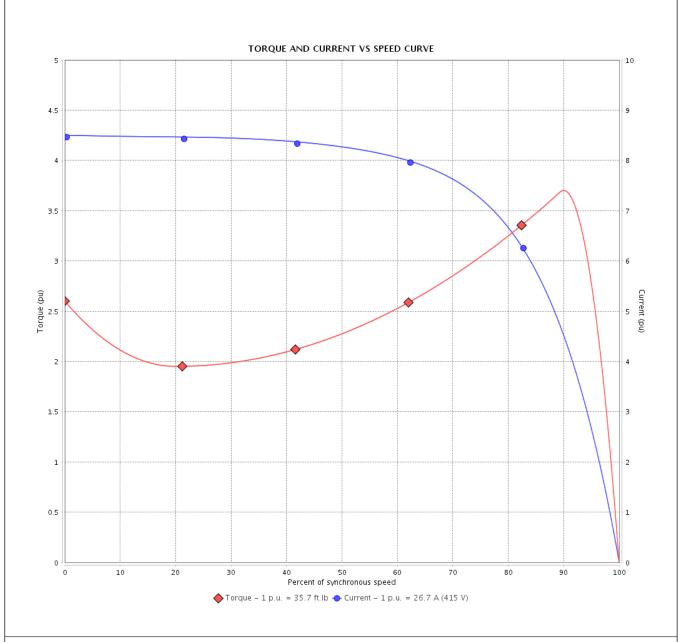
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13507708

Catalog #: 02536ET3E256JP-S



Performance : 220/415 V 50 Hz 2P Rated current : 50.4/26.7 A Moment of inertia (J) : 1.31 sq.ft.lb **LRC** : 8.5 Duty cycle : Cont.(S1) : F : 35.7 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 260 % : 1.15 : 80 K

Breakdown torque : 370 % Temperature rise : 80 Rated speed : 2940 rpm Design : A

Locked rotor time : 14s (cold) 8s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



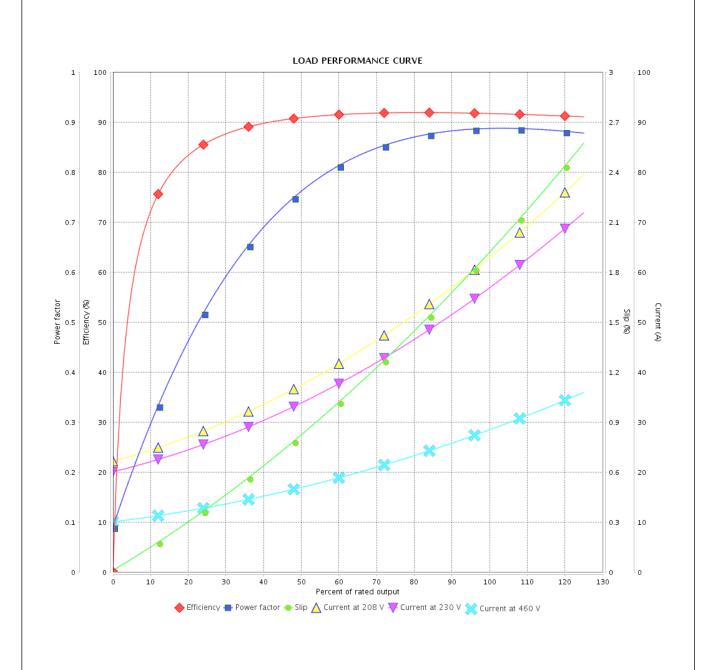
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13507708

Catalog #: 02536ET3E256JP-S



Performance	erformance : 230/460 V 60 Hz 2P					
Rated current : 57.0/28.5 A		Moment of	Moment of inertia (J)			
LRC	:	8.3	Duty cycle	•	: Cont.(S1)	
Rated torque	:	37.2 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	240 %	Service fa	ctor	: 1.15	
Breakdown torqu	Breakdown torque : 340 % Temperature ri		ure rise	: 80 K		
Rated speed	:	3530 rpm	Design		: A	
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Date

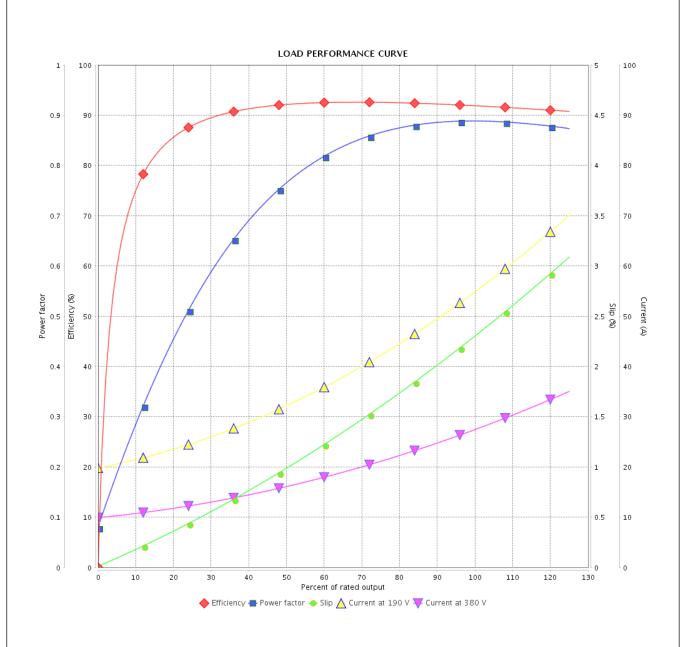
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13507708

Catalog #: 02536ET3E256JP-S



Performance : 190/380 V 50 Hz 2P Rated current : 55.8/27.9 A Moment of inertia (J) : 1.31 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.8 ft.lb : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2930 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



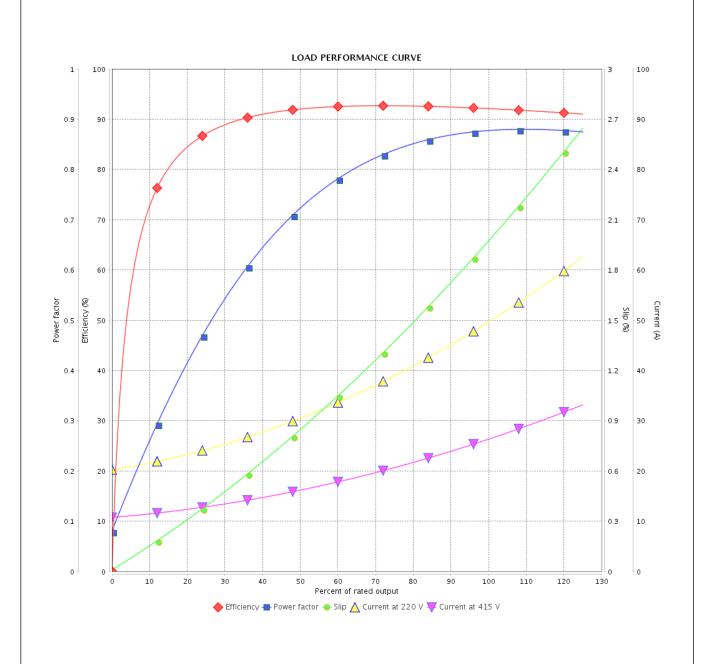
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13507708

Catalog #: 02536ET3E256JP-S



Performance	: 2	20/415 V 50 Hz 2P				
Rated current	: 5	0.4/26.7 A Moment of in		f inertia (J)	: 1.31 sq.ft.lb	
LRC	: 8	.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	5.7 ft.lb	Insulation	class	:F	
Locked rotor torqu	ue : 2	60 %	Service fa	ctor	: 1.15	
Breakdown torque : 370 %		70 %	Temperati	Temperature rise		
Rated speed	: 2	940 rpm Design			: A	
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Three Phase Induction Motor - Squirrel Cage

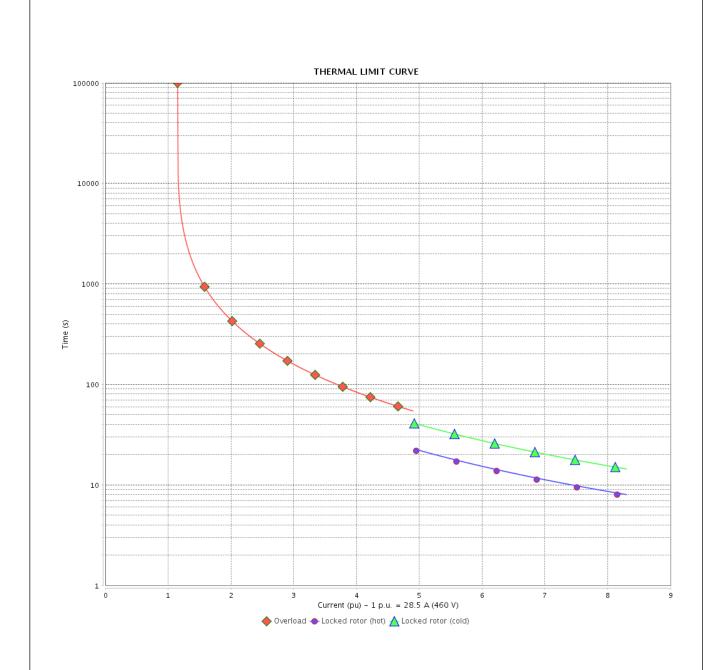


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase	I	Product code :	13507708	
		Linderley Times Triacs	(Catalog # :	02536ET3E25	6JP-S
Performance	:	230/460 V 60 Hz 2P				
Rated current		57.0/28.5 A	Moment or		: 1.31 sq.ft.lb	
LRC Rated torque		8.3 37.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque	ue :	240 %	Service fa		: 1.15	
Breakdown torque	e :	340 %	Temperatu	ıre rise	: 80 K	
Rated speed		3530 rpm	Design		: A	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

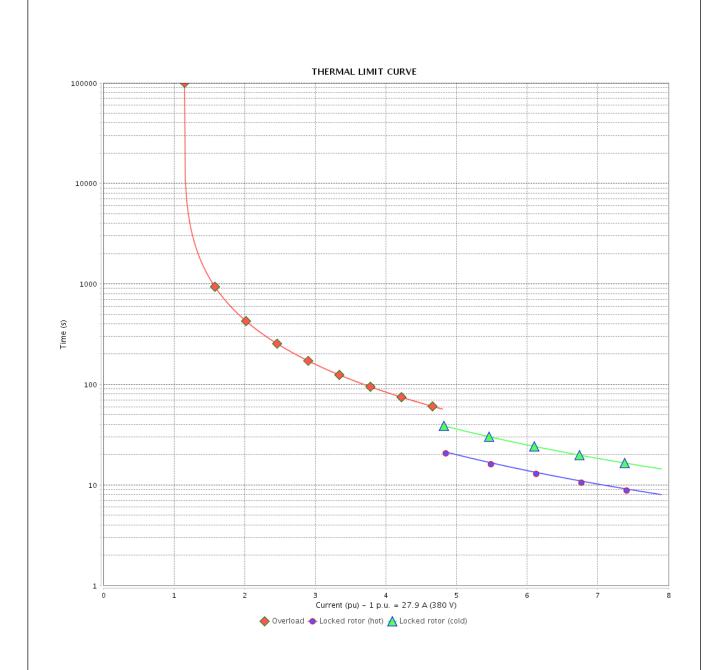


Customer	:			
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	13507708 02536ET3E29	56.IP-S
		<u> </u>		
Performance	: 190/380 V 50 Hz 2P			
Rated current	: 55.8/27.9 A	Moment of inertia (J)	: 1.31 sq.ft.lb	
LRC Rated torque	: 7.9 : 35.8 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service factor	: 1.15	
Breakdown torque Rated speed	: 330 % : 2930 rpm	Temperature rise Design	: 80 K : A	
Heating constant	<u>-</u>	_		
Cooling constant				
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Checked by	222		Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

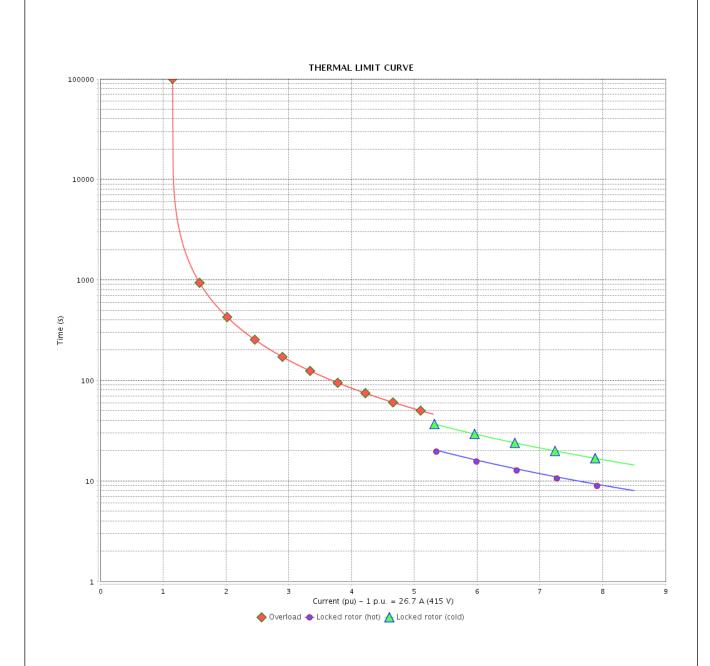


Customer	:					
Product line		JP Pump NEMA Premium Efficiency Three-Phase		Product code :	13507708	
	_			Catalog # :	02536ET3E2	56JP-S
Performance		20/415 V 50 Hz 2P				
Rated current LRC Rated torque	: 8 : 3	5.7 ft.lb	Duty cycle Insulation	class	: 1.31 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie : 3	60 % 70 % 940 rpm	Service fa Temperatu Design		: 1.15 : 80 K : A	
Heating constant						
Cooling constant	<u> </u>	01 0	-			
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Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



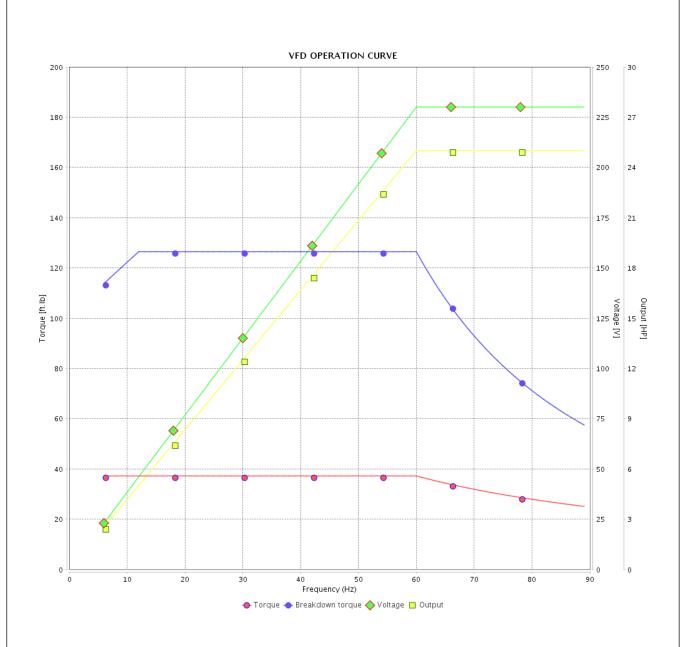
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13507708

Catalog #: 02536ET3E256JP-S



Performance : 230/460 V 60 Hz 2P Rated current : 57.0/28.5 A Moment of inertia (J) : 1.31 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.3 : 37.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 3530 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



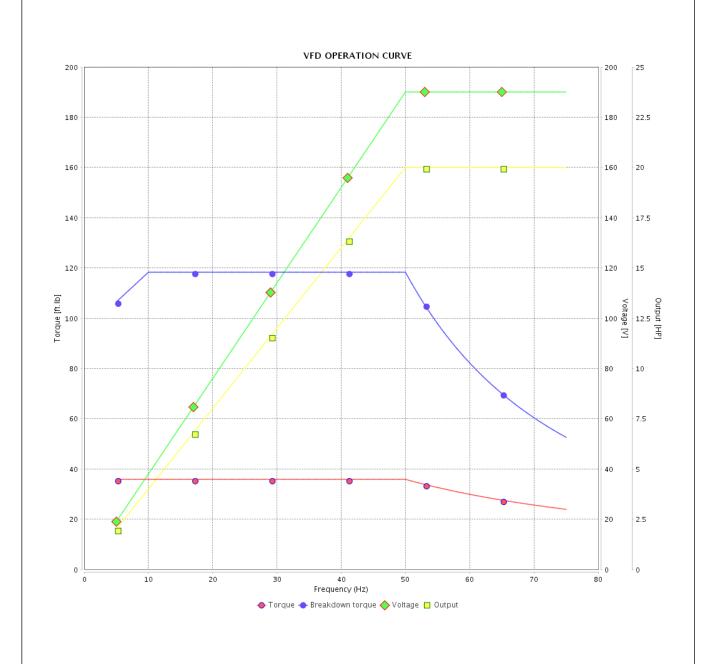
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13507708

Catalog #: 02536ET3E256JP-S



Performance	. ,	: 190/380 V 50 Hz 2P							
	-								
Rated current		: 55.8/27.9 A		Moment of inertia (J)		: 1.31 sq.ft.lb			
LRC	: 7	: 7.9 Duty cycle		;	: Cont.(S1)				
Rated torque	: 3	: 35.8 ft.lb		Insulation class					
Locked rotor torq	ue : 2	229 %	Service factor		: 1.15				
Breakdown torqu	ie : 3	: 330 % : 2930 rpm		Temperature rise Design					
Rated speed									
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

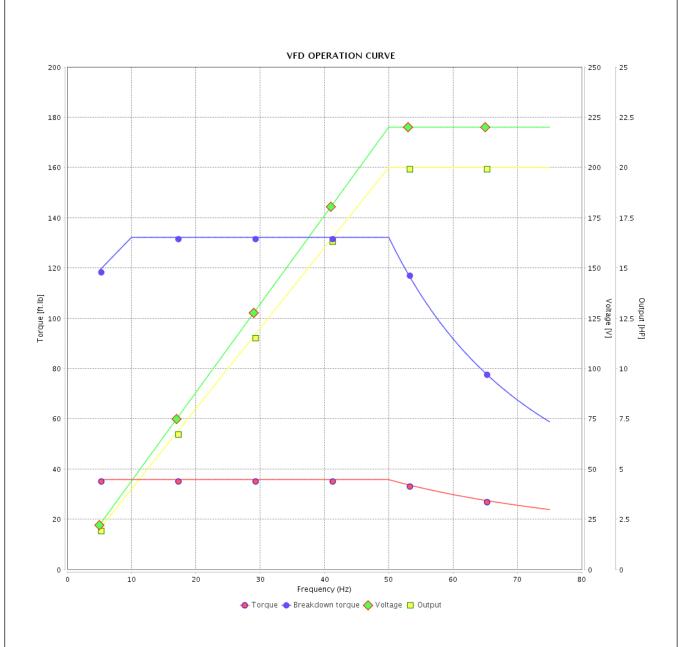
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13507708

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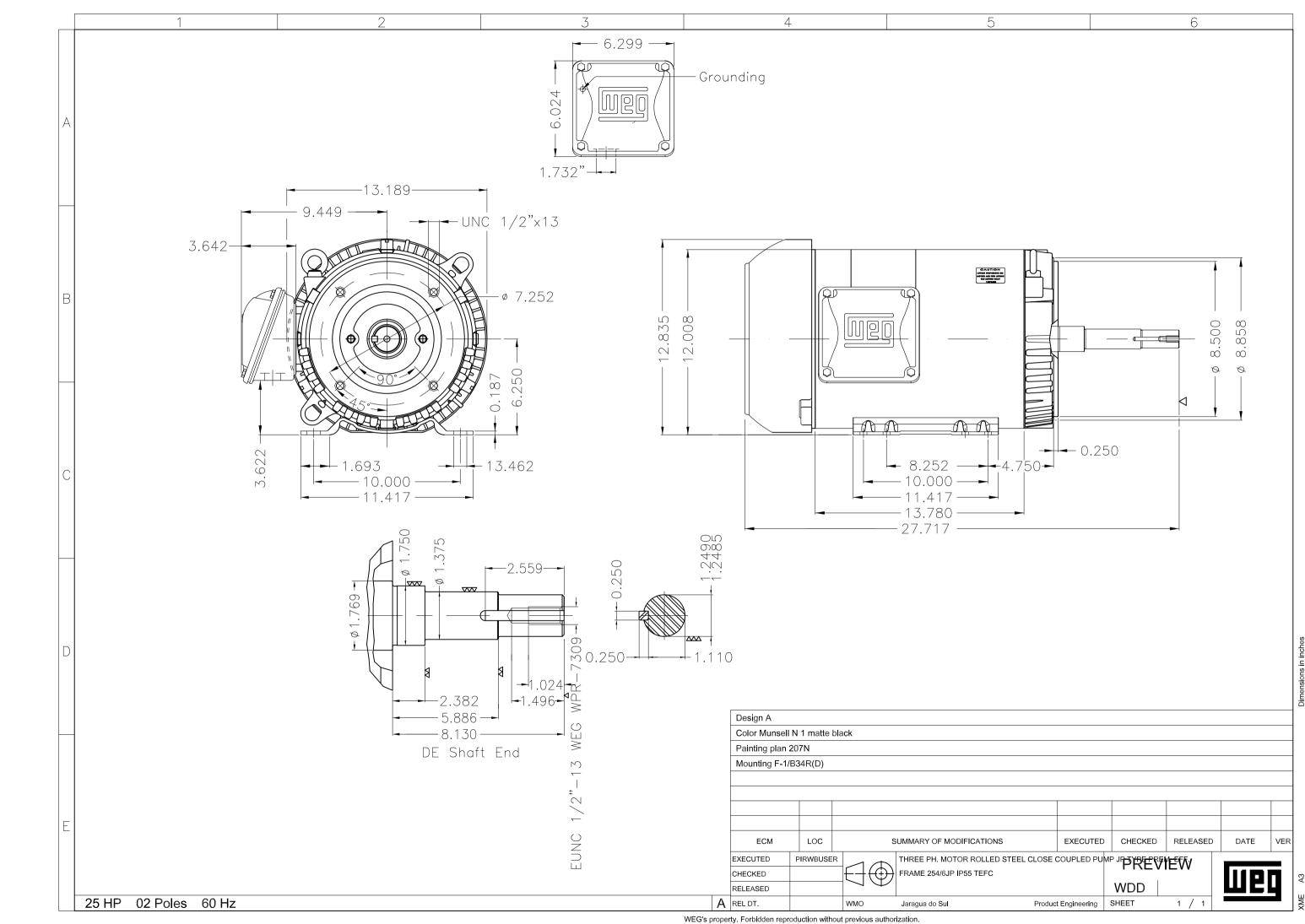


Performance		: 220/415 V 50 Hz 2	2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 50.4/26.7 A : 8.5 : 35.7 ft.lb : 260 % : 370 % : 2940 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.31 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
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ZEZ

For 60Hz: Class I, Zone 2, (**UL)**US LISTED 3PT9 FOR SAFE AREA

& Energy Verifi Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

> MODEL 02536ET3E256JP-S 9 S/N 걒 254/6JP 24FEV2021

N01.TE0IC0X0N

13507708

MADE IN MÉXICO

CONT

P55 SH 1000 m.a.s.l F AT 80K

57.0/28.5 55,5/32.8

1.15

20°C

NSC

230/460

CODE SABLE @ 208V 63.0A ALTERNATE RATING: TEFC

SF1.00 INC. W

NOM EFF NEMA

ZPM 3FA 냃 쌆

> 20HP 55.8-49.6/27.9-26.3A

ODE 6208-Z-C3

2930RPM 50 Hz

8309-Z-C3

牌

MOBIL POLYREX EM

EFF 91.9%

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT (IE3) 190-220/380-415V 91.7%

IEC 60034-1 15797h

SF1.15

T11 OT12

T2-WHT

71-BLU

T12

13-ORG

HIGH

MOT

777



WARNING: Motor must be grounded in accordance with local

T4-YEL T6-GRY T8-RED

F11-GRN T12-VLT T9-BRK RED T10-CURRY F5-BLK L7-PNK

ind national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine. conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit.