### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 13393207

Efficiency Three-Phase

Catalog #: 01518ET3E254JP-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 : 229 lb

Altitude : 1000 m.a.s.l. Approx. weight³ : 229 lb Protection degree : IP55 Moment of inertia (J) : 2.15 sq.ft.lt

Protection degree Moment of inertia (J) : 2.15 sq.ft.lb Design : B Output [HP] 15 15 15 Poles 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 36.4/18.2 39.4/20.9 43.8/21.9 L. R. Amperes [A] 237/118 240/127 241/120 6.1x(Code G) LRC [A] 6.5x(Code G) 5.5x(Code F) No load current [A] 17.3/8.65 17.1/8.53 17.5/9.28 Rated speed [RPM] 1770 1455 1460 Slip [%] 1.67 3.00 2.67 Rated torque [ft.lb] 44.5 54.1 54.0 Locked rotor torque [%] 250 190 210 Breakdown torque [%] 300 229 260 Service factor 1.15 1.00 1.00 Temperature rise 80 K 105 K 105 K Locked rotor time 34s (cold) 19s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot) Noise level<sup>2</sup> 68.0 dB(A) 65.0 dB(A) 65.0 dB(A) 25% 90.8 92.5 91.9 50% 91.0 91.5 91.2 Efficiency (%) 75% 92.4 91.2 91.4 92.4 89.9 90.4 100% 0.45 0.41 25% 0.39 50% 0.71 0.67 0.64 Power Factor 75% 0.76 0.81 0.78

<u>Drive end</u> <u>Non drive end</u> Foundation loads

0.85

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 558 lb Sealing : V'Ring Without Max. compression : 787 lb

0.82

Bearing Seal

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

Notes

USABLE @208V 40.2A SF 1.00 SFA 40.2A

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.

0.84

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



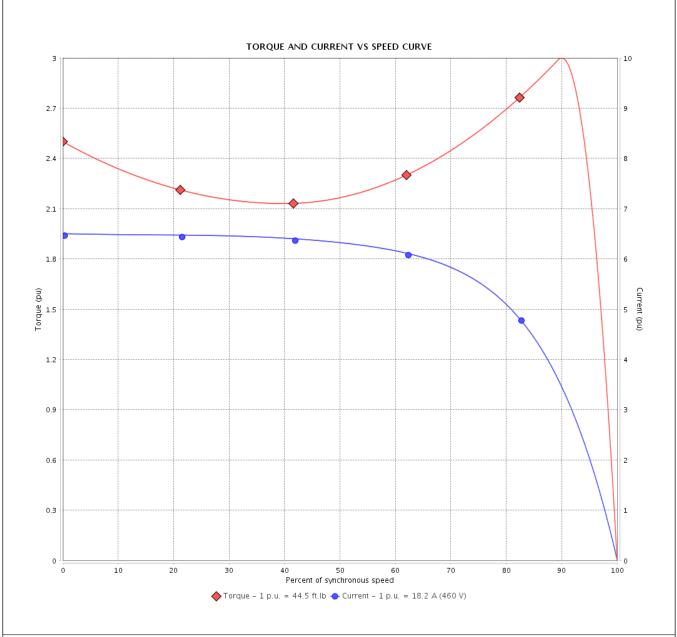
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393207

Catalog #: 01518ET3E254JP-S



Performance : 230/460 V 60 Hz 4P Rated current : 36.4/18.2 A Moment of inertia (J) : 2.15 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F : 250 % Service factor : 1.15 Locked rotor torque Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



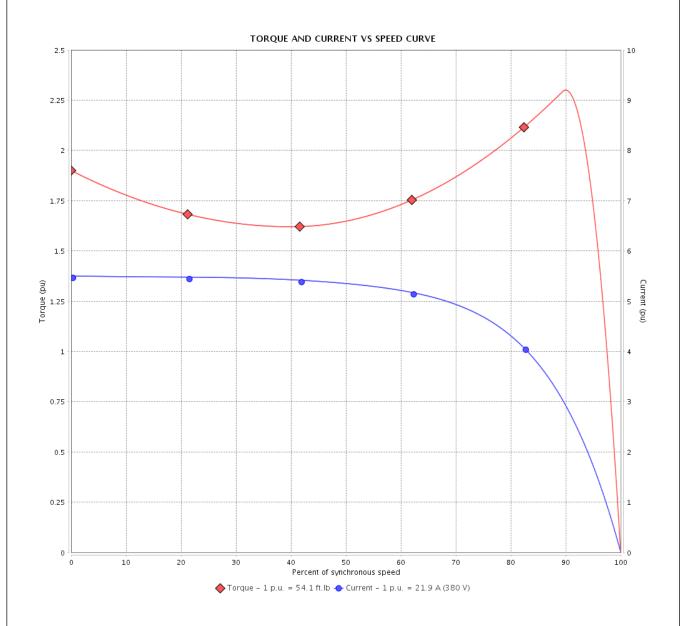
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393207

Catalog #: 01518ET3E254JP-S



Performance : 190/380 V 50 Hz 4P Rated current : 43.8/21.9 A Moment of inertia (J) : 2.15 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 54.1 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B Locked rotor time

: 0s (cold) 0s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



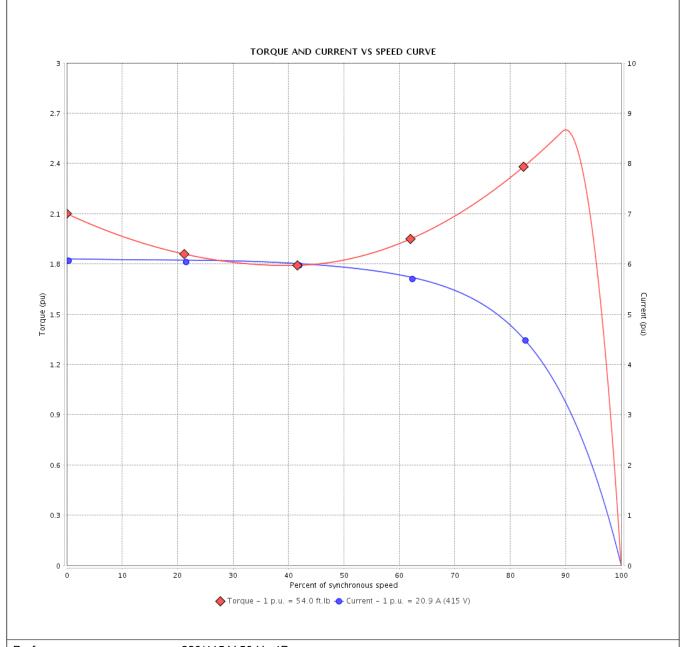
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393207

Catalog #: 01518ET3E254JP-S



Performance : 220/415 V 50 Hz 4P Rated current : 39.4/20.9 A Moment of inertia (J) : 2.15 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 54.0 ft.lb Insulation class Rated torque : F : 210 % Service factor Locked rotor torque : 1.00

Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



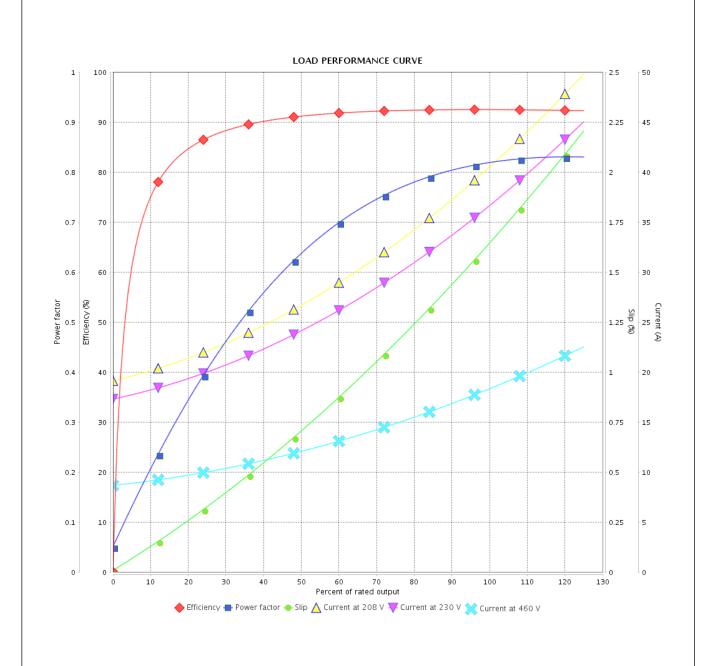
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393207

Catalog #: 01518ET3E254JP-S



Performance	ormance : 230/460 V 60 Hz 4P					
Rated current	: 3	6.4/18.2 A	Moment o	f inertia (J)	: 2.15 sq.ft.lb	
LRC	: 6	.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 4	4.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.15	
Breakdown torque	: : 3	00 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	770 rpm	Design		: B	
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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



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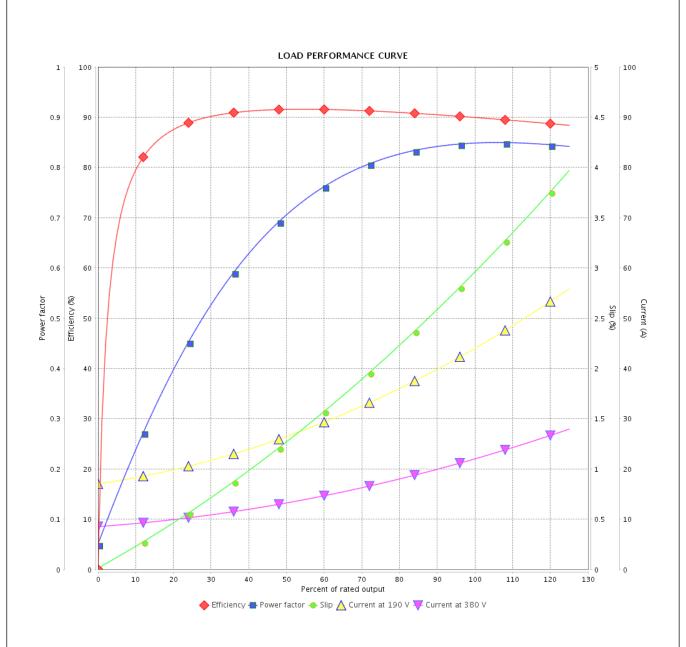
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393207

Catalog #: 01518ET3E254JP-S



Performance : 190/380 V 50 Hz 4P Rated current : 43.8/21.9 A Moment of inertia (J) : 2.15 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.5 : 54.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

Date

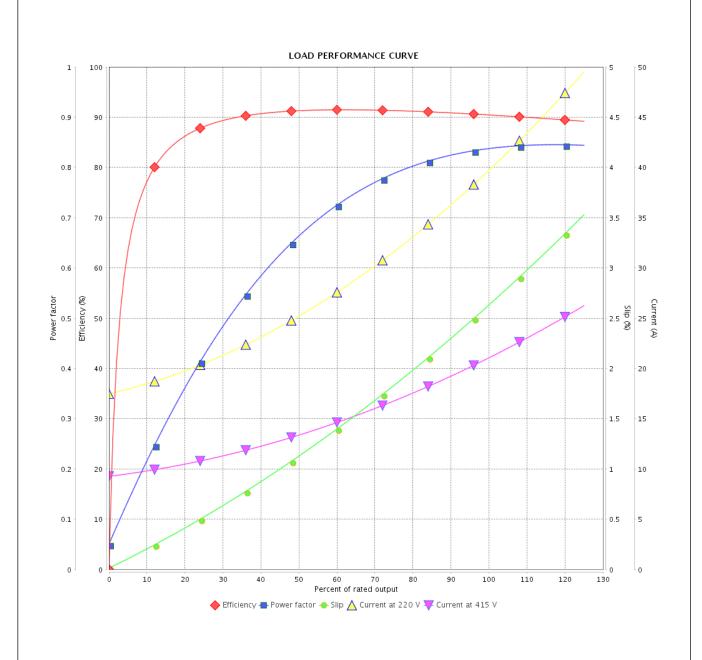
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393207

Catalog #: 01518ET3E254JP-S



Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 39.4/20.9 A : 6.1 : 54.0 ft.lb : 210 % : 260 % : 1460 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 2.15 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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### Three Phase Induction Motor - Squirrel Cage

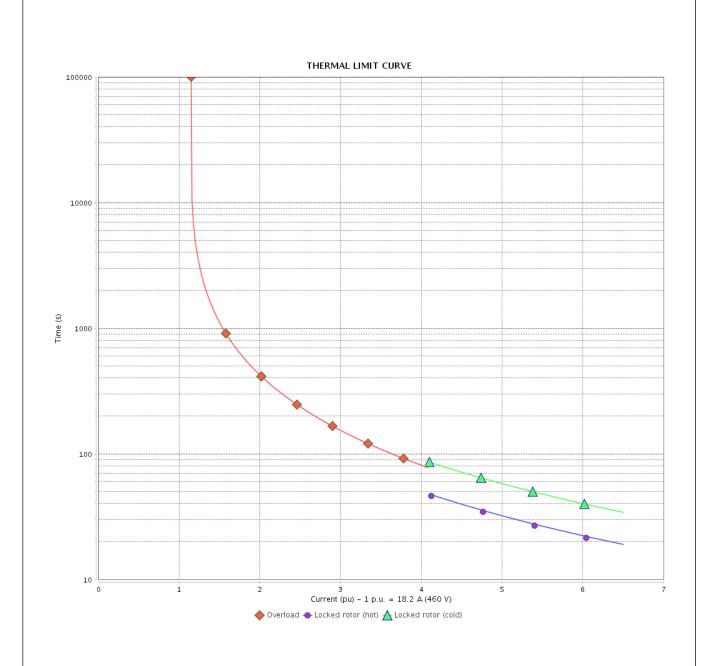


Customer	:					
Product line	:.	JP Pump NEMA Premium	1	Product code :	13393207	
	E	fficiency Three-Phase	(	Catalog # :	01518ET3E25	54JP-S
Performance	: 23	30/460 V 60 Hz 4P				
Rated current		6.4/18.2 A	Moment of	f inertia (J)	: 2.15 sq.ft.lb	
LRC Rated torque		4.5 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq		50 %	Service fa		: 1.15	
Breakdown torqu Rated speed		00 % 770 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant						
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## Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

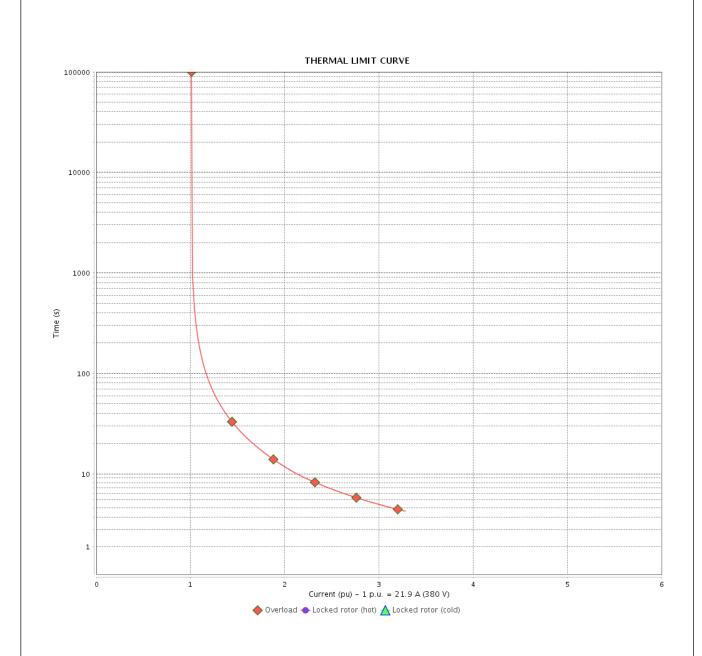


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D. J. J. P.		ID D NEMA D'		D. d. d. d.	4000007	
Product line	: E	JP Pump NEMA Premium Efficiency Three-Phase		Product code :	13393207	
				Catalog # :	01518ET3E2	54JP-S
Performance		190/380 V 50 Hz 4P				
Rated current LRC		43.8/21.9 A 5.5	Moment o Duty cycle	f inertia (J)	: 2.15 sq.ft.lb : Cont.(S1)	
Rated torque		54.1 ft.lb	Insulation	class	: F	
Locked rotor toro		190 %	Service fa		: 1.00	
Breakdown torqu Rated speed		229 % 1455 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constant		•				
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

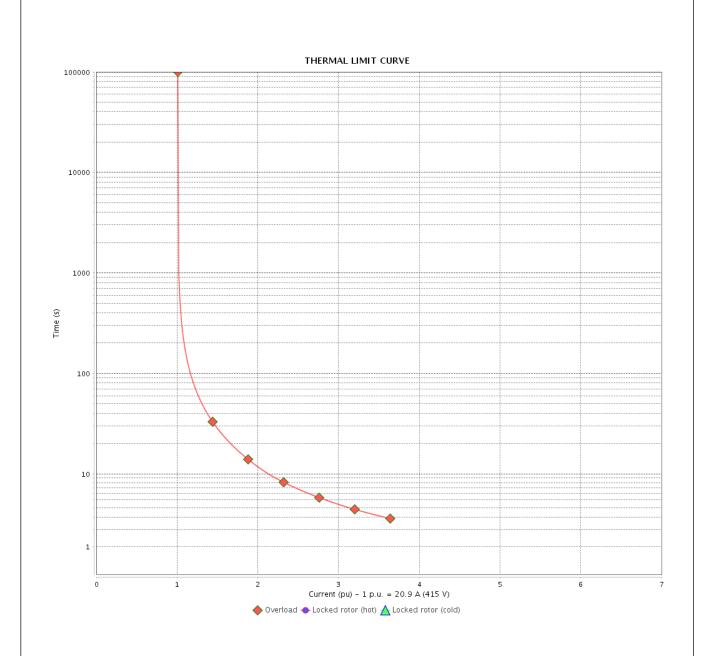


Customer :  Product line :JP Pump NEMA Premium Efficiency Three-Phase Catalog #: 13393207  Catalog #: 01518ET3E254JP-S					
Efficiency Three-Phase	Customer	:			
Catalog #: 01518ET3E254JP-S	Product line	: JP Pump NEMA Premium Efficiency Three-Phase			ID 0
			Catalog # :	01518ET3E254	JP-S
Performance : 220/415 V 50 Hz 4P	Porformanco	· 220/415 \/ 50 Hz 4D			
Rated current         : 39.4/20.9 A         Moment of inertia (J)         : 2.15 sq.ft.lb           LRC         : 6.1         Duty cycle         : Cont.(S1)           Rated torque         : 54.0 ft.lb         Insulation class         : F           Locked rotor torque         : 210 %         Service factor         : 1.00           Breakdown torque         : 260 %         Temperature rise         : 105 K           Rated speed         : 1460 rpm         Design         : B	Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 39.4/20.9 A : 6.1 : 54.0 ft.lb : 210 % : 260 %	Duty cycle Insulation class Service factor Temperature rise	: Cont.(S1) : F : 1.00 : 105 K	
		•			
Heating constant Cooling constant					
Cooling constant  Rev. Changes Summary Performed Checked Date		Changes Summary	Parformed	Checked	Date
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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 :

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Date

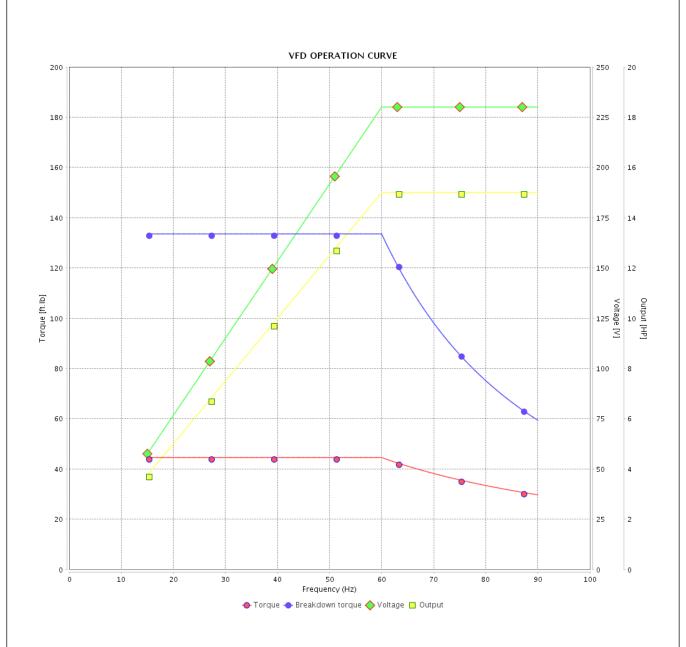
13/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393207

Catalog #: 01518ET3E254JP-S



Performance : 230/460 V 60 Hz 4P : 36.4/18.2 A Rated current Moment of inertia (J) : 2.15 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class : 44.5 ft.lb : F Rated torque Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

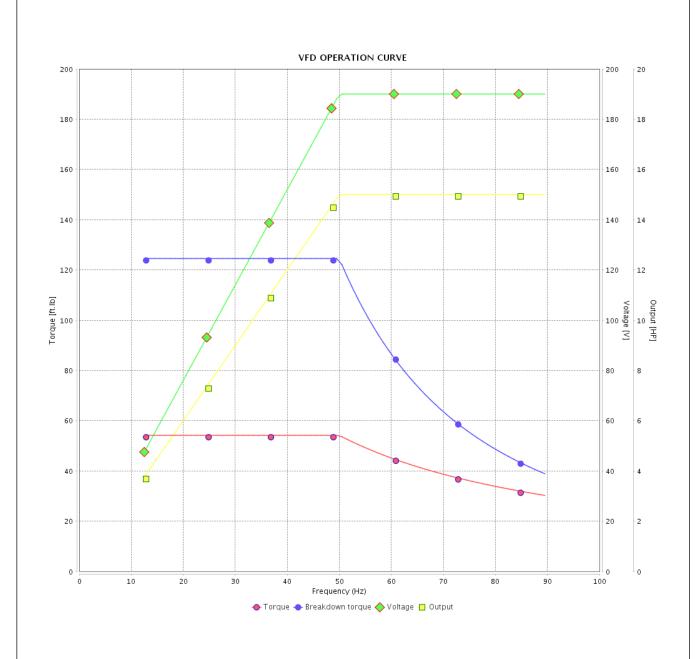
Product code: 13393207

Catalog #: 01518ET3E254JP-S

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Performance					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.8/21.9 A : 5.5 : 54.1 ft.lb : 190 % : 229 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.15 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

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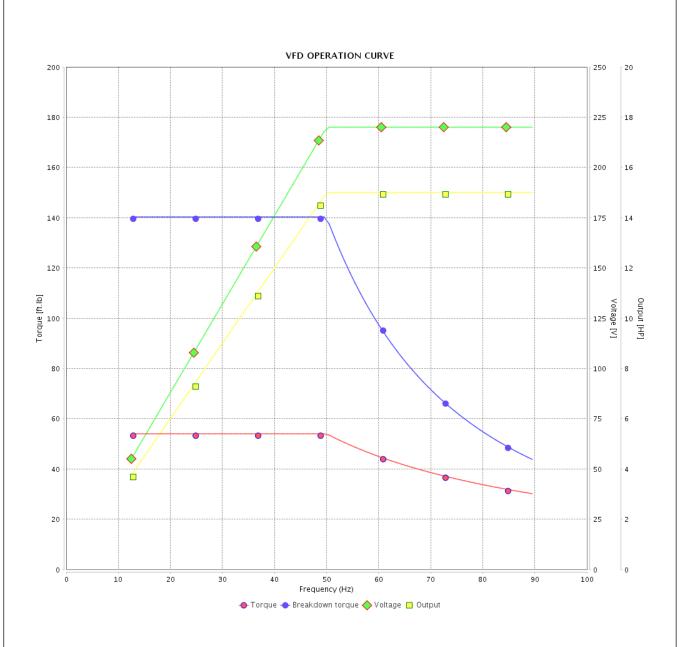
13/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393207

Catalog #: 01518ET3E254JP-S

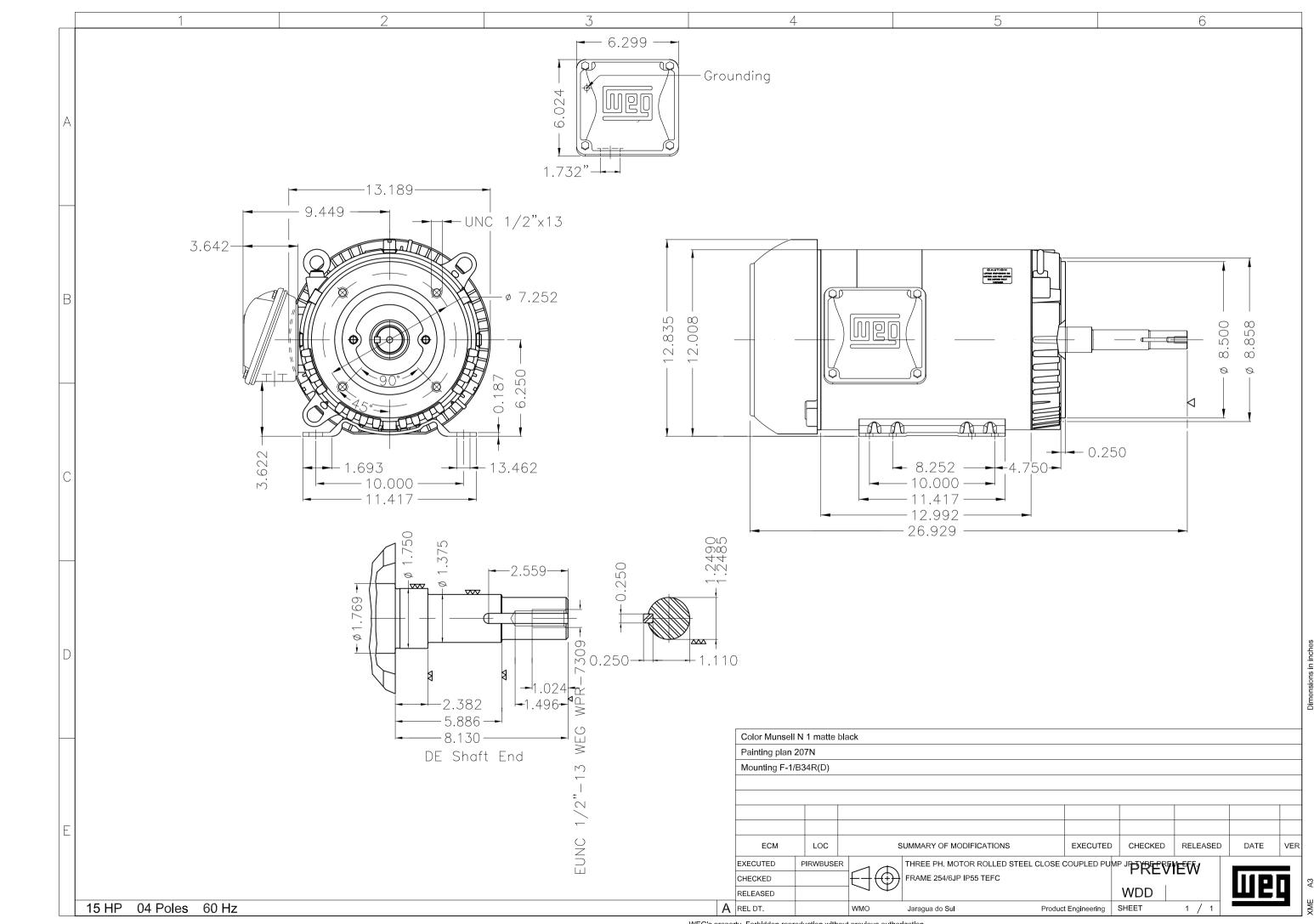


Performance	:	220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	39.4/20.9 A 6.1 54.0 ft.lb 210 % 260 % 1460 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.15 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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MADE IN MÉXICO

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(**UL)**US LISTED

FOR SAFE AREA

3PT9

Energy Verifi

N01.TE0IC0X0N 13393207

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

> MODEL 01518ET3E254JP-S S/N 1JAN2022

8 걒 254/6JP

1000 m.a.s.l CONT

CODE SH

TEFC 20°C

U SABLE @ 208V 40.3A ALTERNATE RATING:

SF1.00 INC. W

NOM EFF NEMA 50 Hz 15HP

1455RPM

43.8-38.9/21.9-20.6A

ODE 6208-Z-C3

8309-Z-C3

牌

92.4%

SPM 3FA 냃 쌆

11.9/20.9

P55

F AT 80K

NSC

5

230/460

190-220/380-415V **EFF 89.9%** 

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT (IE2) MOBIL POLYREX EM

IEC 60034-1

SF1.00

2000bh

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

HIGH

MOT

T2-WHT

T11 OT12

T12

T9-BRK RED T10-CURRY





777





conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre

choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine.