DATA SHEET

Three Phase Induction Motor - Squirrel Cage



50

220/415

0.84

Customer

Frequency [Hz]

Rated voltage [V]

Product line : JP Pump NEMA Premium Product code: 14329720

Efficiency Three-Phase

60

230/460

Catalog #: 01518ET3E254JP-SG

50

190/380

0.85

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

Insulation class Mounting : F-1

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 229 lb Altitude

: IP55 Moment of inertia (J)

Protection degree : 2.15 sq.ft.lb Design : B Output [HP] 15 15 15 Poles 4 4

Rated current [A] 36.4/18.2 43.8/21.9 39.4/20.9 L. R. Amperes [A] 237/118 241/120 240/127 LRC [A] 6.1x(Code G) 6.5x(Code G) 5.5x(Code F) 17.5/9.28 No load current [A] 17.3/8.65 17.1/8.53 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 level² 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 91.4 100% 92.4 89.9 90.4 25% 0.45 0.41 0.39 50% 0.71 0.67 0.64 Power Factor 75% 0.76 0.81 0.78

> Non drive end Foundation loads Drive end

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

0.82

Bearing Seal

20000 h 20000 h Lubrication interval Lubricant amount 8 g 13 g

Mobil Polyrex EM Lubricant type

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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



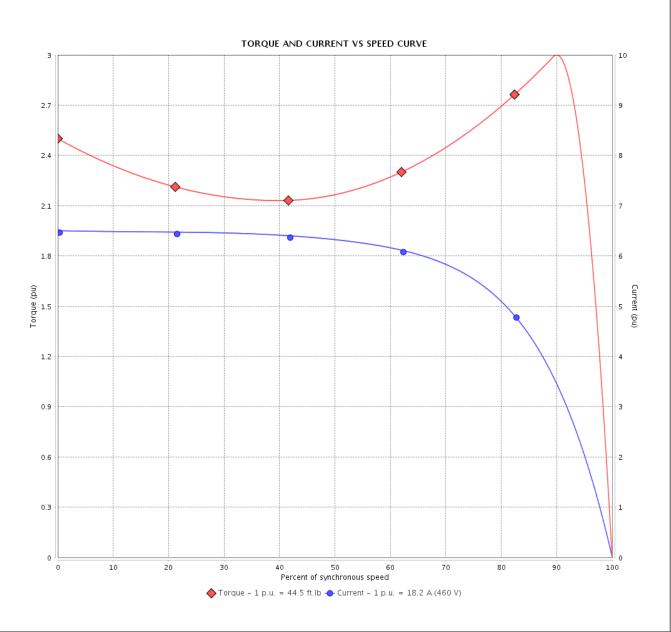
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329720

Catalog #: 01518ET3E254JP-SG



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)

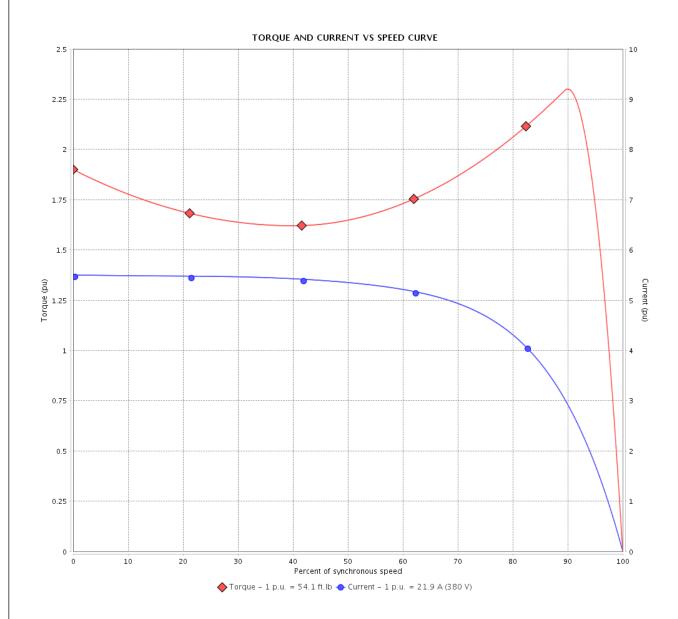
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JP Pump NEMA Premium Product code: 14329720 Efficiency Three-Phase Catalog #: 01518ET3E254JP-SG



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) Rated torque : 54.1 ft.lb Insulation class : F : 190 % Service factor : 1.00 Locked rotor torque Breakdown torque : 229 % Temperature rise : 105 K Rated speed : B : 1455 rpm Design Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

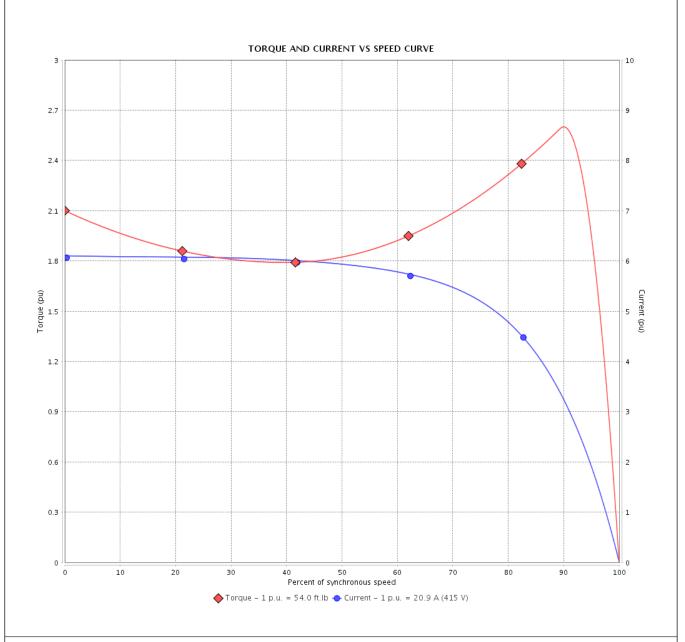
Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329720

Catalog #: 01518ET3E254JP-SG

: B



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) Insulation class Rated torque : 54.0 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K

Rated speed : 1460 rpm Design

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



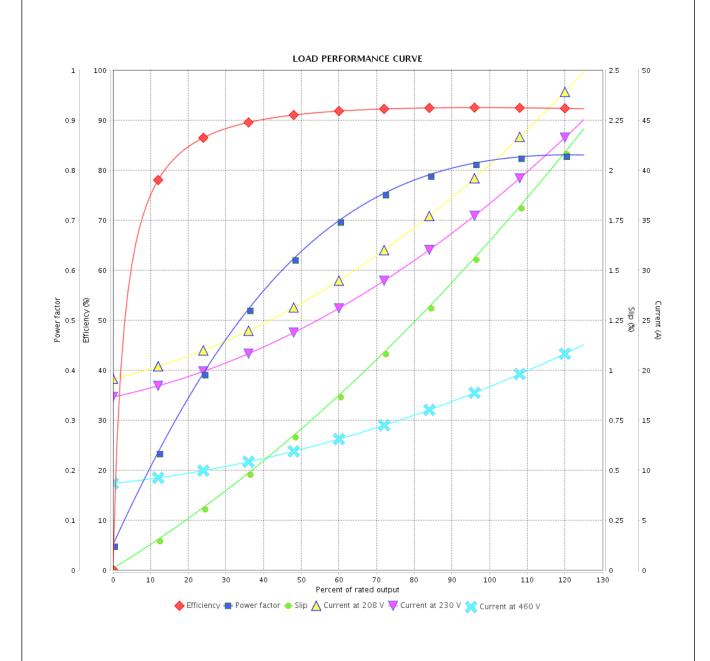
Customer

Product line : JP Pump NEMA Premium Produ

Efficiency Three-Phase

Product code: 14329720

Catalog #: 01518ET3E254JP-SG



Performance	: 2	: 230/460 V 60 Hz 4P				
Rated current	ent : 36.4/18.2 A		Moment o	f inertia (J)	: 2.15 sq.ft.lb	
LRC	: (6.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	44.5 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	250 %	Service fa	ctor	: 1.15	
Breakdown torque	::	300 %	Temperature rise		: 80 K	
Rated speed	:	: 1770 rpm			: B	
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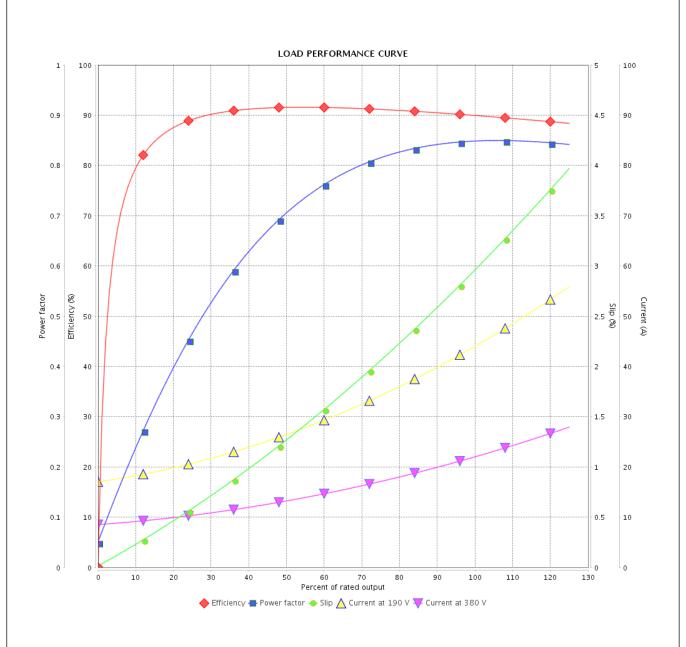
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329720

Catalog #: 01518ET3E254JP-SG



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

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Three Phase Induction Motor - Squirrel Cage



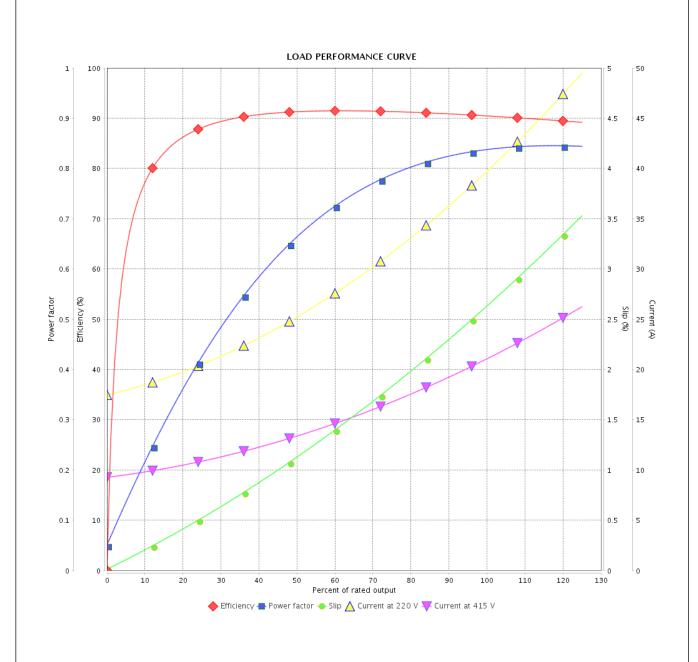
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329720

Catalog #: 01518ET3E254JP-SG



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 inertia (J) : 2.15 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B			
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Three Phase Induction Motor - Squirrel Cage

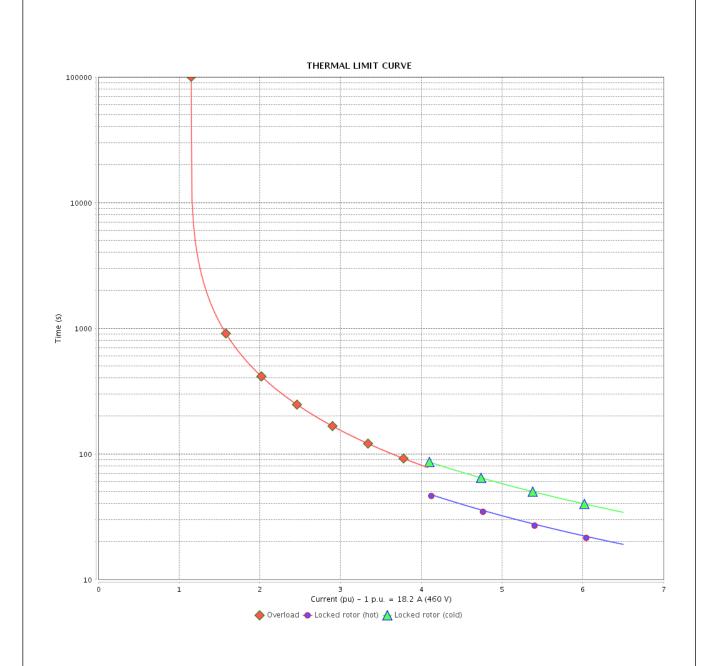


Customer	:					
Product line	: .	: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14329720	
	E			Catalog # :	01518ET3E25	54JP-SG
Performance	: 23	30/460 V 60 Hz 4P				
Rated current	: 36	6.4/18.2 A	Moment of	f inertia (J)	: 2.15 sq.ft.lb	
LRC	: 6.		Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque		4.5 π.ib 50 %	Insulation Service fa		: F : 1.15	
Breakdown torque	e : 30	00 %	Temperatu		: 80 K	
Rated speed		770 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

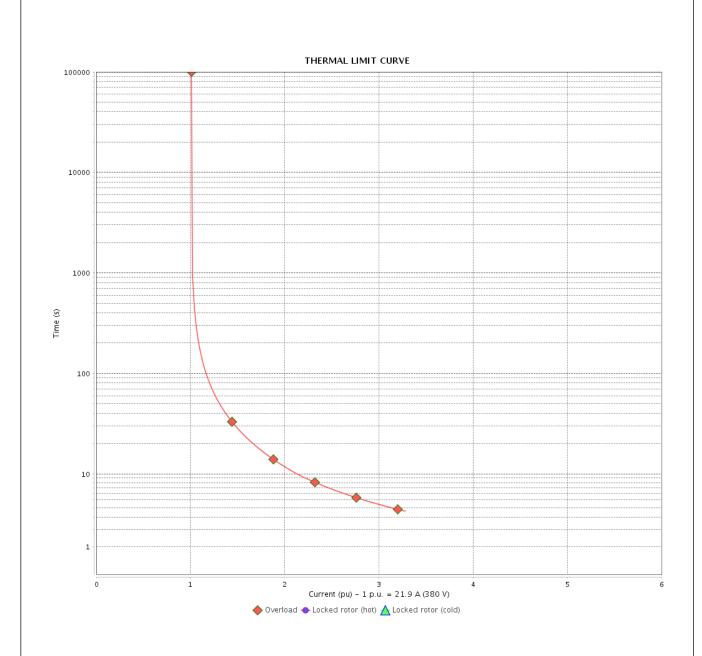


Customer	:				
Product line	: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14329720	
			Catalog # :	01518ET3E2	54JP-SG
Performance	: 190/380 V 50 Hz 4P				
Rated current	: 43.8/21.9 A	Moment of	finertia (J)	: 2.15 sq.ft.lb	
LRC	: 5.5 : 54.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Rated torque Locked rotor torque	: 190 %	Service fac	ctor	: 1.00	
Breakdown torque Rated speed	: 229 % : 1455 rpm	Temperatu	re rise	: 105 K : B	
	. 1 1 00 (pii)	Design		. u	
Heating constant Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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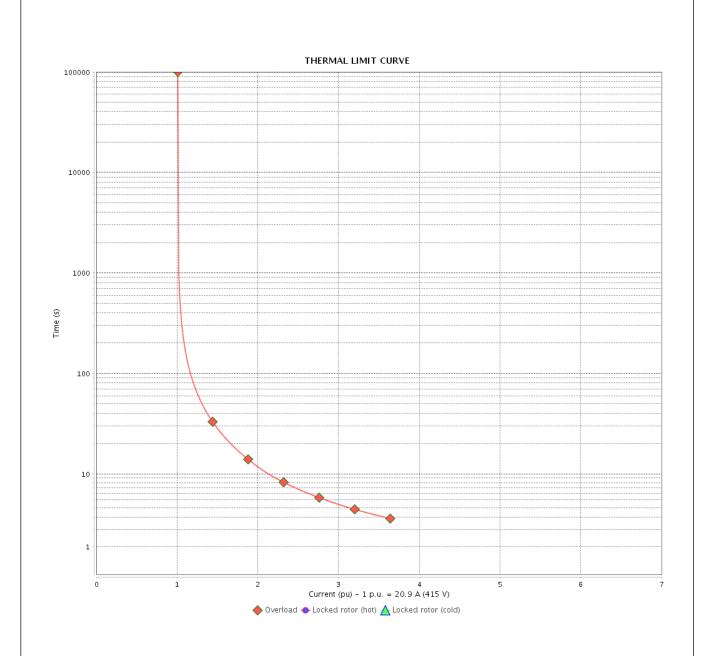


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14329720	
		Elliciency Three-Friase		Catalog # :	01518ET3E25	64JP-SG
Performance	:	220/415 V 50 Hz 4P				
Rated current		39.4/20.9 A	Moment o	of inertia (J)	: 2.15 sq.ft.lb	
LRC Rated torque		6.1 54.0 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	210 %	Service fa	ictor	: 1.00	
Breakdown torque Rated speed		260 % 1460 rpm	Temperati Design	ure rise	: 105 K : B	
		ιπου ιριιι	Design		. U	
Heating constant 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 :

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Date

13/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

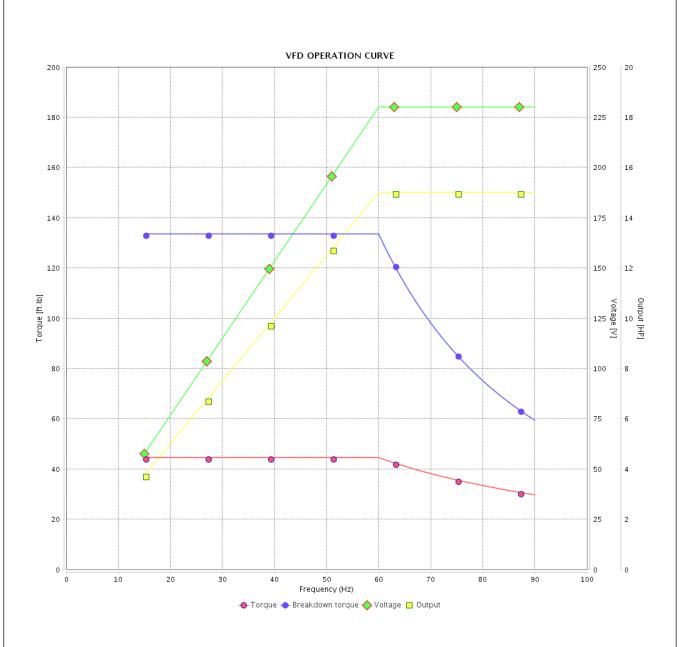
Product code: 14329720

Catalog #: 01518ET3E254JP-SG

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Performance	:	230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : :ue :: :ie ::	36.4/18.2 A 6.5 44.5 ft.lb 250 % 300 % 1770 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 2.15 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



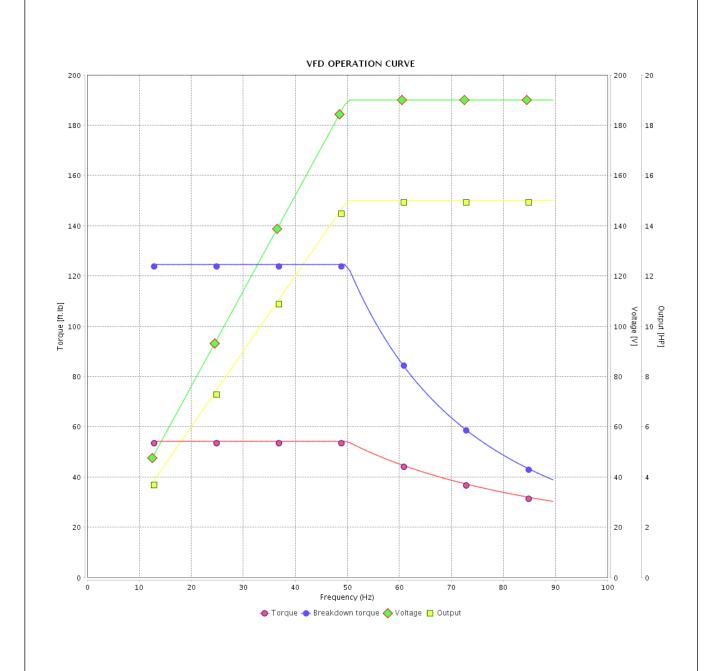
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14329720

Catalog #: 01518ET3E254JP-SG



Performance	: 1	: 190/380 V 50 Hz 4P					
Rated current	: 4	: 43.8/21.9 A		Moment of inertia (J)		: 2.15 sq.ft.lb	
LRC	: 5	.5	Duty cycle)	: Cont.(S1)		
Rated torque	: 5	4.1 ft.lb Insulation class		: F			
Locked rotor tord	que : 1	90 %	Service factor		: 1.00		
Breakdown torqu	ıe : 2	29 %	Temperature rise		: 105 K		
Rated speed	: 1	455 rpm	Design	Design			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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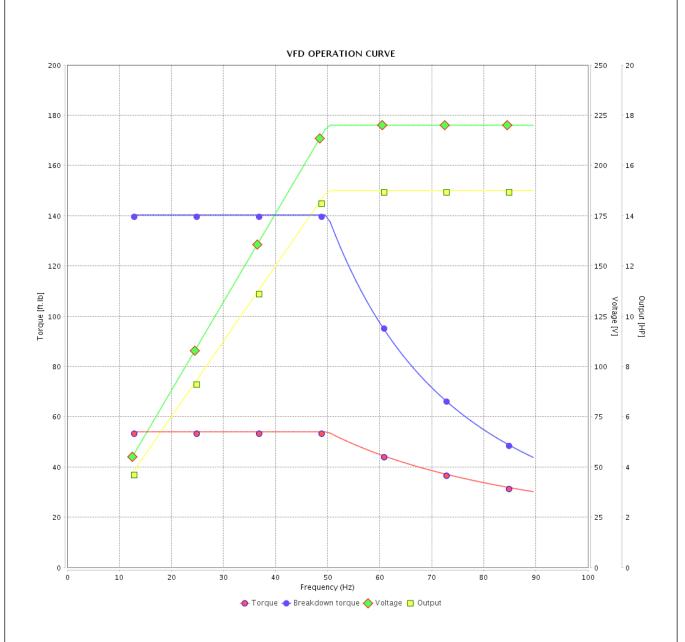
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Product line : JP Pump NEMA Premium

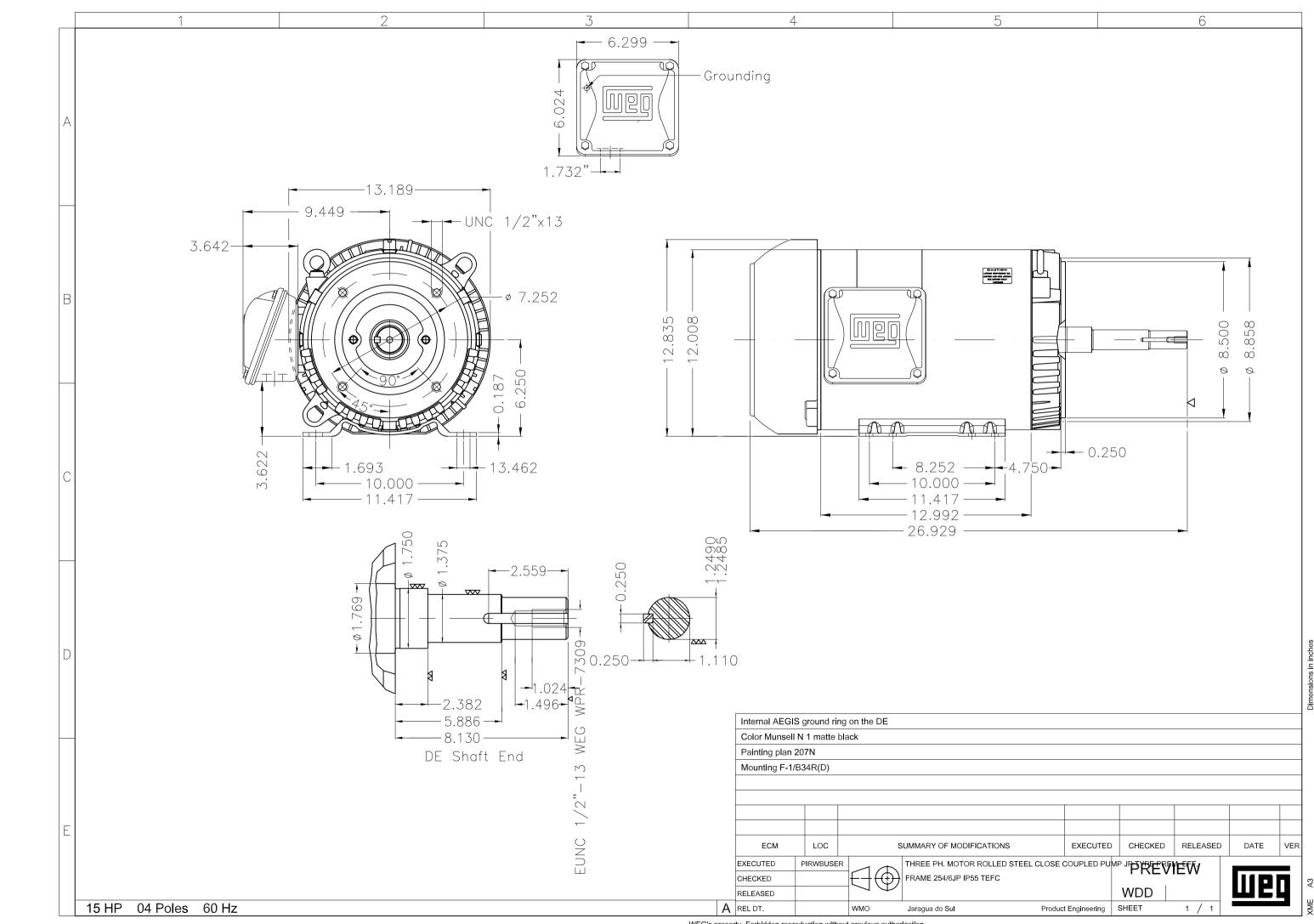
Efficiency Three-Phase

Product code: 14329720

Catalog #: 01518ET3E254JP-SG



Performance : 220/415 V 50 Hz 4P : 39.4/20.9 A Rated current Moment of inertia (J) : 2.15 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 54.0 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by



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8 Energy Verifi (**UL)**US LISTED 3PT9

> MODEL 01518ET3E254JP-SG N01.TE0IC0X0N

CC029A

14329720

MADE IN MÉXICO

S/N 10CT2021

9 4

254/6JP

CONT

230/460

1000 m.a.s.l

P55

F AT 80K

2000

SH

TEFC 0

5

CODE SABLE @ 208V

ZPM SFA 냃 쌆

> U LTERNATE RATING:

SF1.00 INC. 2

92.4%

NOM EFF

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 4:1 CT 1455RPM 50 Hz 15HP 13.8-38.9/21.9-20.6A

IEC 60034-1 2000bh

SF1.00

190-220/380-415V

EFF 89.9%

6208-Z-C3

ago

8309-Z-C3

牌

MOBIL POLYREX EM

нон

MOT

44**1**1

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local

T9-BRK RED T10-CURRY F5-BLK L7-PNK

ind national electrical codes to prevent serious electrical

T4-YEL T6-GRY T8-RED 13-ORG

T2-WH

71-BLU

T11 OT12

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