DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 12743182

Efficiency Three-Phase

Catalog #: 02018OT3E256JP-S

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

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
Design : B Moment of inertia (J) : 2.23 sq.ft.

Design : 2.23 sq.ft.lb Output [HP] 20 20 20 Poles 4 4 60 50 Frequency [Hz] 50 220/415 Rated voltage [V] 230/460 190/380 Rated current [A] 50.0/25.0 59.8/29.9 54.0/28.6 L. R. Amperes [A] 315/158 311/155 313/166 LRC [A] 6.3x(Code G) 5.2x(Code F) 5.8x(Code G) No load current [A] 22.9/11.4 22.4/11.2 23.6/12.5 Rated speed [RPM] 1770 1460 1465 Slip [%] 1.67 2.67 2.33 Rated torque [ft.lb] 59.3 71.9 71.7 Locked rotor torque [%] 240 180 200 Breakdown torque [%] 290 220 250 Service factor 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K

0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 27s (cold) 15s (hot) Noise level² 64.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 91.7 93.0 92.2 50% 92.4 91.8 91.4 Efficiency (%) 75% 92.4 91.2 91.3 100% 93.0 89.7 90.2 25% 0.38 0.46 0.41

50% 0.72 0.68 0.63 Power Factor 75% 0.74 0.82 0.79 100% 0.81 0.84 0.85 Non drive end Foundation loads Drive end

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 745 lb Sealing : Without Without Max. compression : 974 lb

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

Lubricant amount : 13 g 8 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 55.3A SF 1.00 SFA 55.3A

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.

(1)710 10070 0110	in load.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



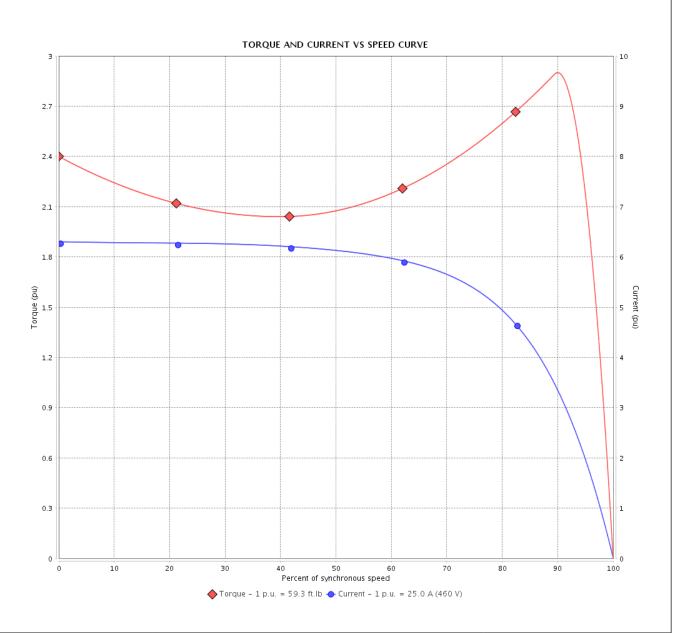
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

Catalog #: 02018OT3E256JP-S



Performance : 230/460 V 60 Hz 4P Rated current : 50.0/25.0 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Service factor : 1.15 Locked rotor torque : 240 % Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



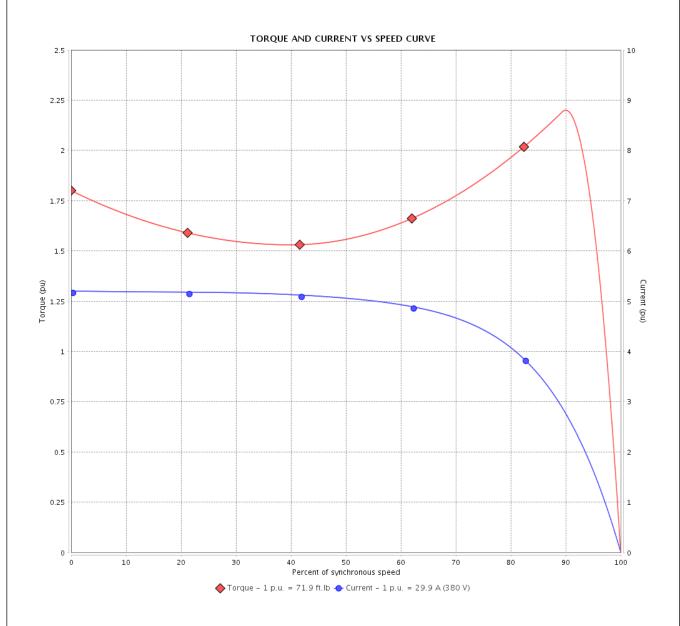
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

Catalog #: 02018OT3E256JP-S



Performance : 190/380 V 50 Hz 4P Rated current : 59.8/29.9 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Rated torque : 71.9 ft.lb Insulation class : F : 180 % Service factor Locked rotor torque : 1.15 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 1460 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



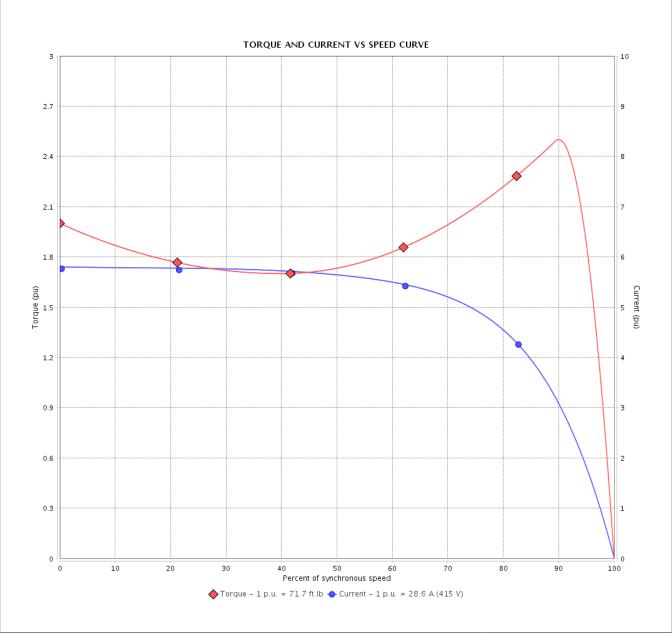
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

Catalog #: 02018OT3E256JP-S



Performance : 220/415 V 50 Hz 4P Rated current : 54.0/28.6 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.7 ft.lb : F Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



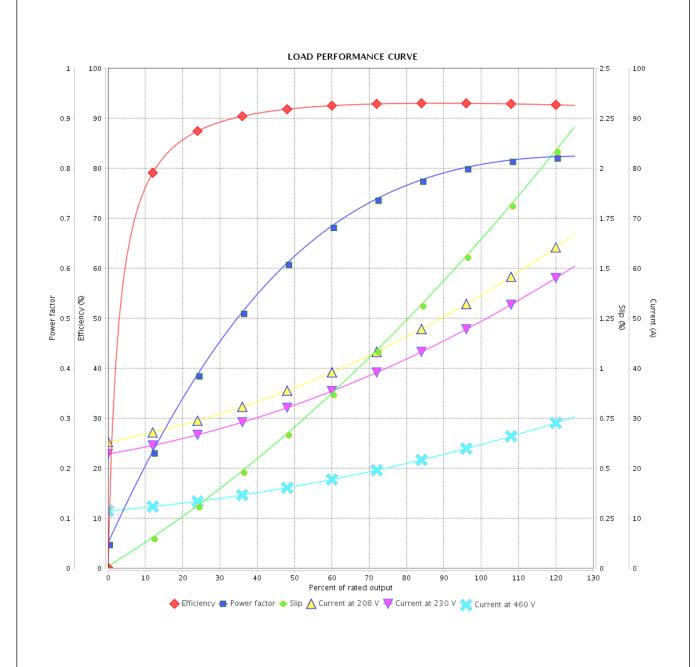
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

Catalog #: 02018OT3E256JP-S



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 5	0.0/25.0 A	Moment o	f inertia (J)	: 2.23 sq.ft.lb	
LRC	: 6	.3	Duty cycle	•	: Cont.(S1)	
Rated torque	: 5	9.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	40 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	90 %	Temperature rise		: 80 K	
Rated speed	: 1	770 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

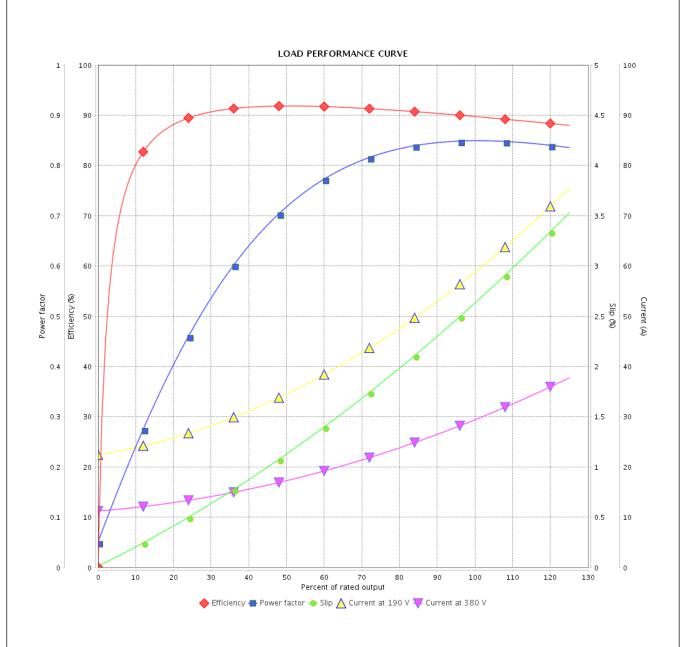
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

Catalog #: 02018OT3E256JP-S



Performance : 190/380 V 50 Hz 4P Rated current : 59.8/29.9 A Moment of inertia (J) : 2.23 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 71.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage



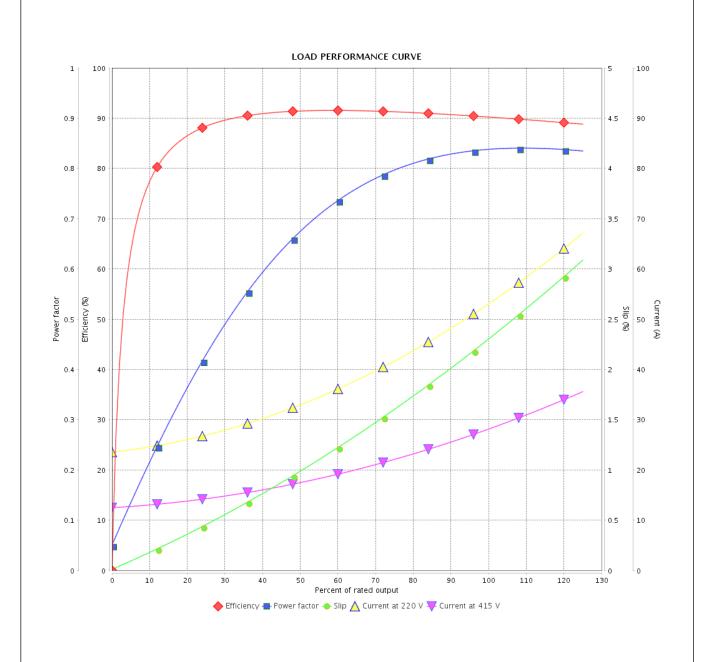
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

Catalog #: 02018OT3E256JP-S



Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 54.0/28.6 A : 5.8 : 71.7 ft.lb : 200 % : 250 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.23 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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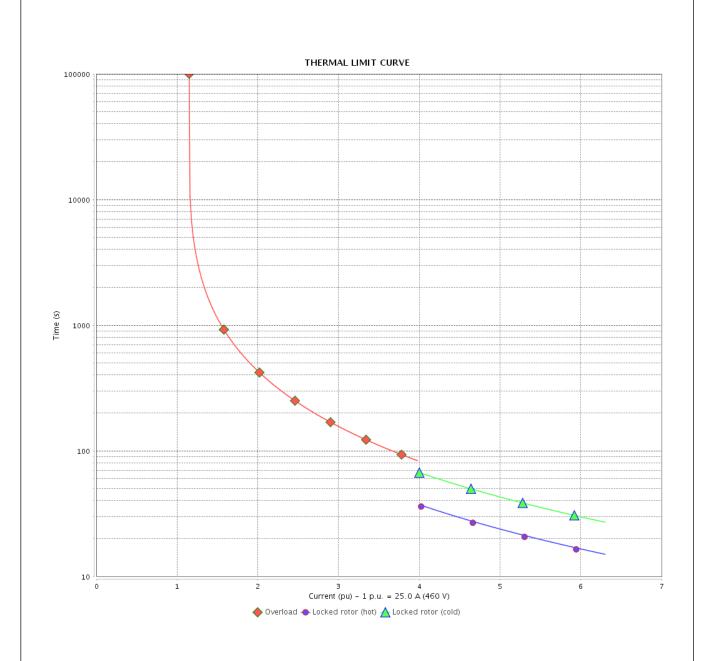


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12743182	
		Lindency Three-Friase		Catalog # :	02018OT3E2	56JP-S
Performance		: 230/460 V 60 Hz 4P				
Rated current		: 50.0/25.0 A	Moment o	of inertia (J)	: 2.23 sq.ft.lb	
LRC		: 6.3	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torq		: 59.3 ft.lb : 240 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		: 290 %	Temperati		: 80 K	
Rated speed		: 1770 rpm	Design		: B	
Heating constant	1					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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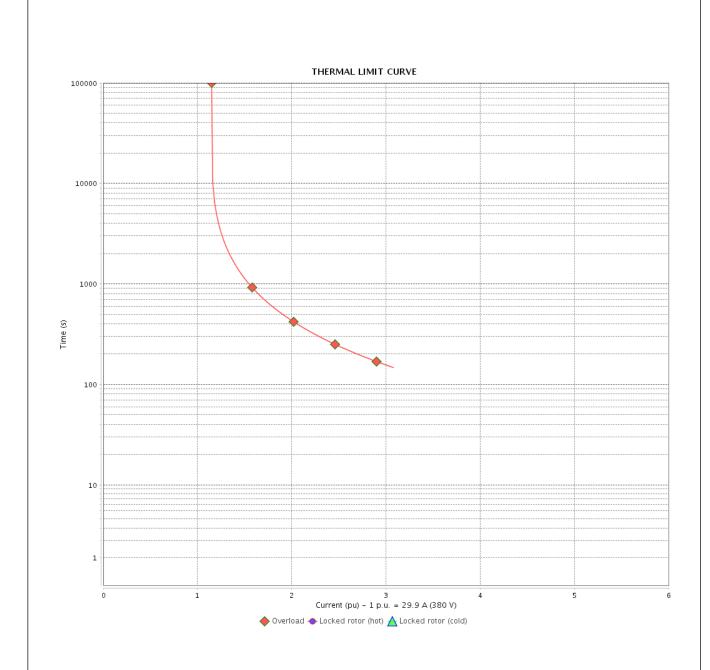


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Product line	:.	Efficiency Three-Phase		Product code :	12743182	
	E			Catalog # :	02018OT3E2	56.IP-S
					0201001012	5001 0
Performance	: 19	90/380 V 50 Hz 4P				
Rated current		9.8/29.9 A	Moment of	f inertia (J)	: 2.23 sq.ft.lb	
LRC Rated torque	: 5. : 7	.2 1.9 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	ue : 18	80 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		20 % 460 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		'	- J			
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

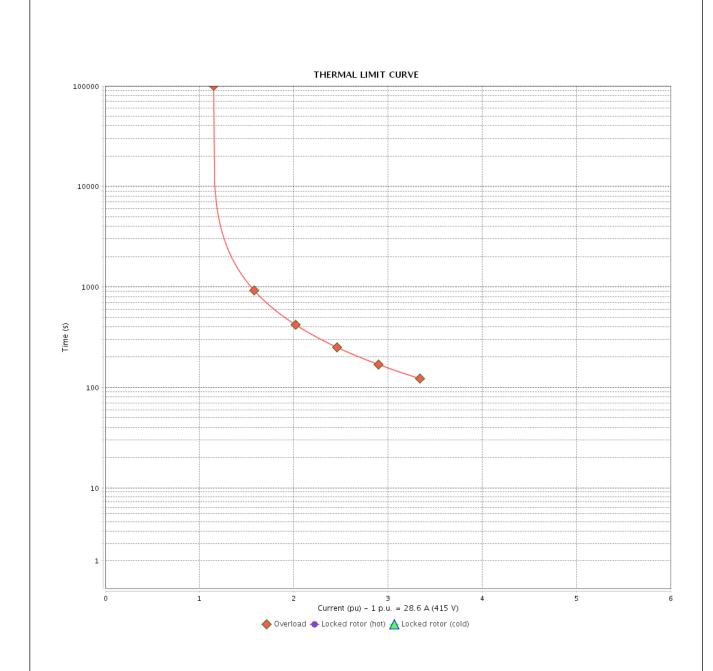


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Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12743182	
		Emoleticy Three-i flase		Catalog # :	02018OT3E2	56JP-S
Performance	:	220/415 V 50 Hz 4P				
Rated current		54.0/28.6 A	Moment o	of inertia (J)	: 2.23 sq.ft.lb	
LRC		5.8	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		71.7 ft.lb 200 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	250 %	Temperati		: 80 K	
Rated speed		1465 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	<u> </u>	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

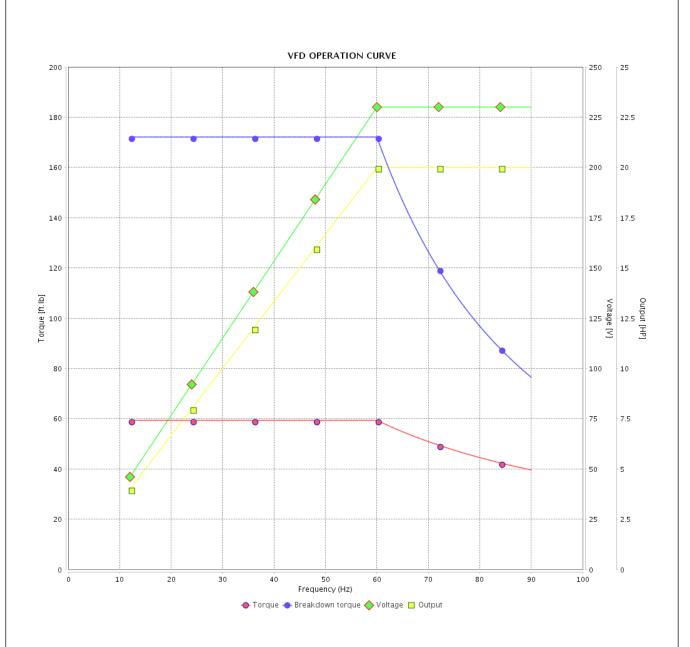
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

Catalog #: 02018OT3E256JP-S



Performance : 230/460 V 60 Hz 4P : 50.0/25.0 A Rated current Moment of inertia (J) : 2.23 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 290 % 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



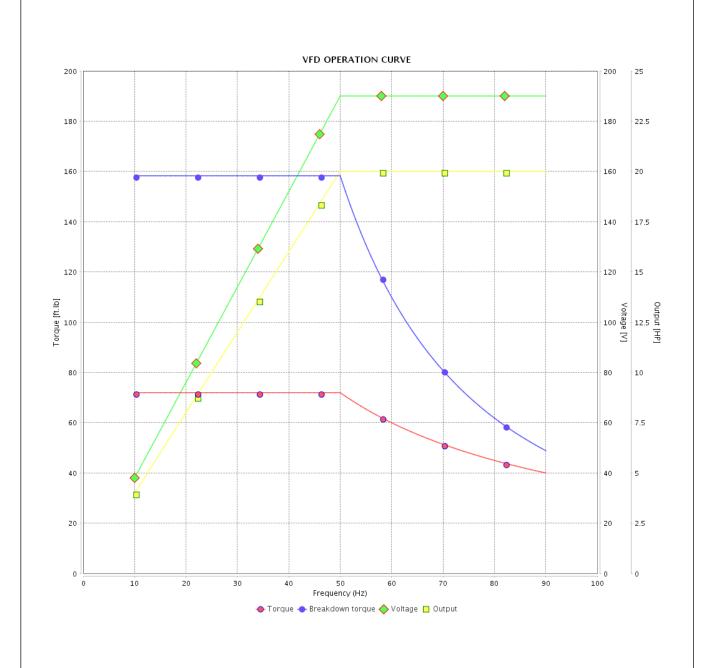
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

Catalog #: 02018OT3E256JP-S



Performance	: 1	: 190/380 V 50 Hz 4P								
Rated current	: 5	: 59.8/29.9 A Momen		f inertia (J)	: 2.23 sq.ft.lb					
LRC	: 5	2 Duty cycle		: Cont.(S1)						
Rated torque	: 7	1.9 ft.lb	Insulation	Insulation class						
Locked rotor tord	que : 1	80 %	Service fa	Service factor		: 1.15				
Breakdown torqu	ıe : 2	20 %	Temperature rise		: 80 K					
Rated speed	: 1	460 rpm	Design	Design						
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

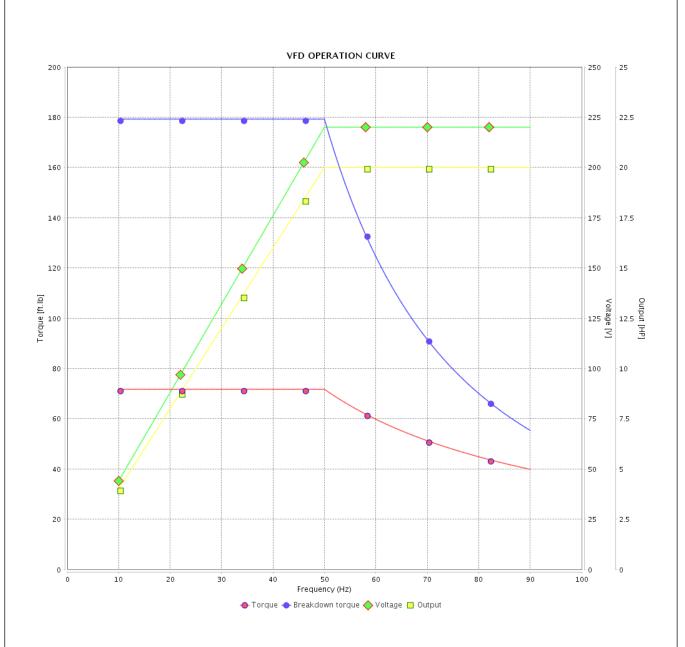
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12743182

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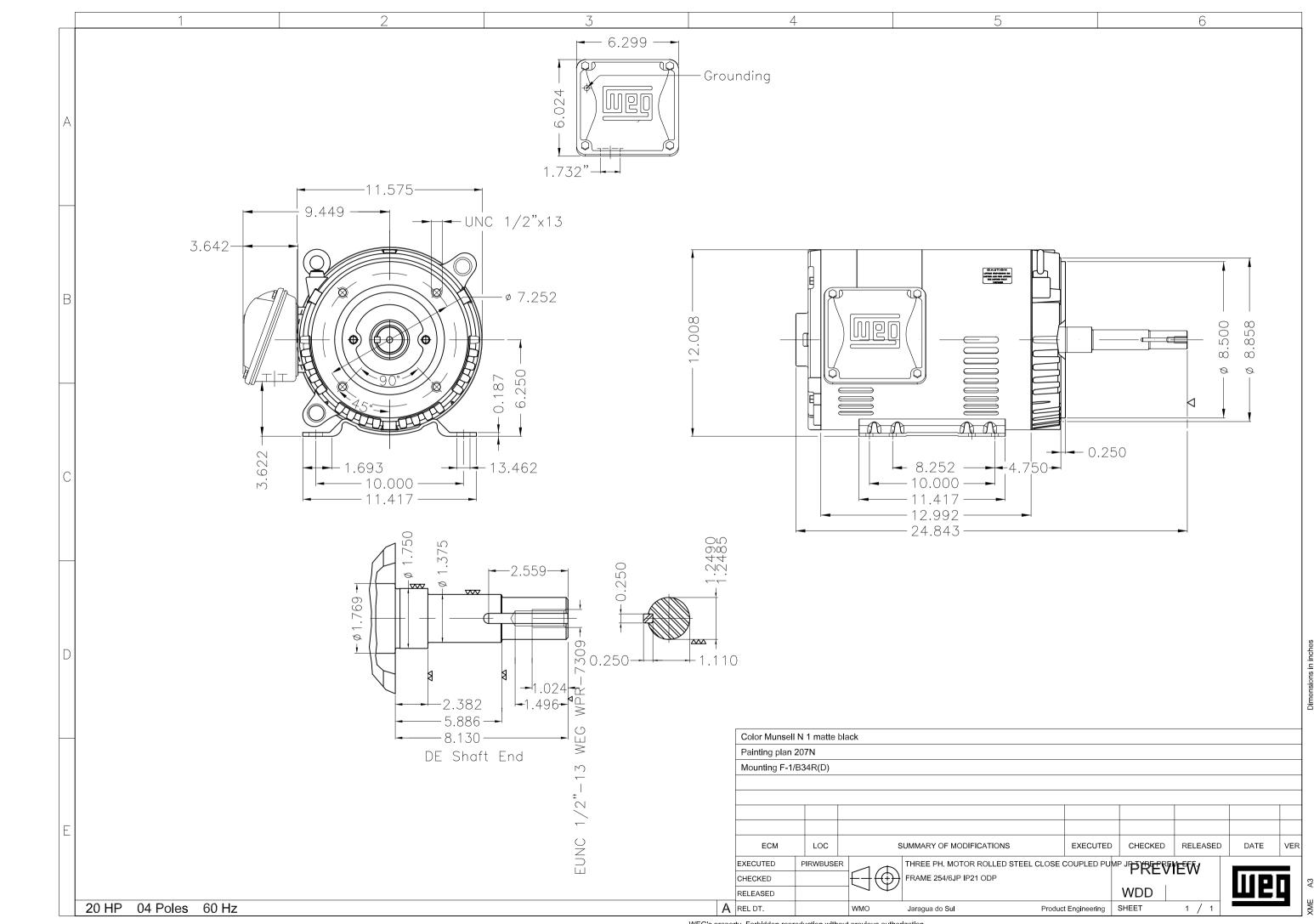


Performance		: 220/415 V 50 H	lz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		: 54.0/28.6 A : 5.8 : 71.7 ft.lb : 200 % : 250 % : 1465 rpm	D In Sc	loment of uty cycle isulation ervice face emperatures esign	class ctor	: 2.23 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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& Energy Verifi

3PT9

MODEL 020180T3E256JP-S S/N 7DEC2021

N01.TODICOXON

12743182

MADE IN MÉXICO

9 4 254/6JP

CONT

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

50.0/25.0 57.5/28.7

1.15

230/460

CODE DES SABLE @ 208V 55.3A

NOM EFF 20HP

59.8-53.0/29.9-28.1A

8309-Z-C3

牌

LTERNATE RATING:

SF1.00 NCL 2

93.0%

NEMA

ZPM 3FA 냃 쌆

U

20°C 900

NSC

1480RPM 50 Hz ODE 6208-Z-C3

IEC 60034-1 2000bh

E 1

SF1.15

190-220/380-415V

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT MOBIL POLYREX EM

EFF 89.7%

T11 OT12

T2-WH

71-BLU

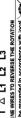
T9-BRK RED 13-ORG F5-BLK L7-PNK

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MOT

777

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION





WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

F11-GRN T12-VLT T10-CURRY

> shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre

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

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