DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JP Pump NEMA Premium Product code: 14808609

Efficiency Three-Phase

Catalog #: 00236ET3E145JP-S

Frame : 143/5JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

: -20°C to +40°C Ambient temperature Starting method : Direct On Line : 1000 m.a.s.l. : 43.7 lb

Approx. weight³ Altitude

7 11111444		. 1000	, tpprox. woight	. 10.1 10
Protection degree		: IP55	Moment of inertia (J)	: 0.1279 sq.ft.lb
Design		: B		
Output [HP]		2	2	2
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.94/2.47	5.94/2.97	5.39/2.86
L. R. Amperes [A]		48.9/24.5	44.0/22.0	44.2/23.5
LRC [A]		9.9x(Code L)	7.4x(Code J)	8.2x(Code K)
No load current [A	.]	2.13/1.06	2.10/1.05	2.14/1.13
Rated speed [RPN	Л]	3520	2875	2890
Slip [%]		2.22	4.17	3.67
Rated torque [ft.lb]]	2.98	3.65	3.63
Locked rotor torqu	ie [%]	250	229	260
Breakdown torque	: [%]	300	280	310
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	82.1	84.8	84.0
Efficiency (0/)	50%	82.5	84.0	83.7
Efficiency (%)	75%	85.5	84.6	84.9
	100%	85.5	83.3	84.1
	25%	0.45	0.51	0.48
Power Factor	50%	0.73	0.79	0.76
rower ractor	75%	0.83	0.88	0.86
	100%	0.89	0.92	0.90

Non drive end Foundation loads Drive end

Bearing type 6206 ZZ 6203 ZZ Max. traction : 76 lb Sealing V'Ring Without Max. compression : 120 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 5.46A SF 1.00 SFA 5.46A

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



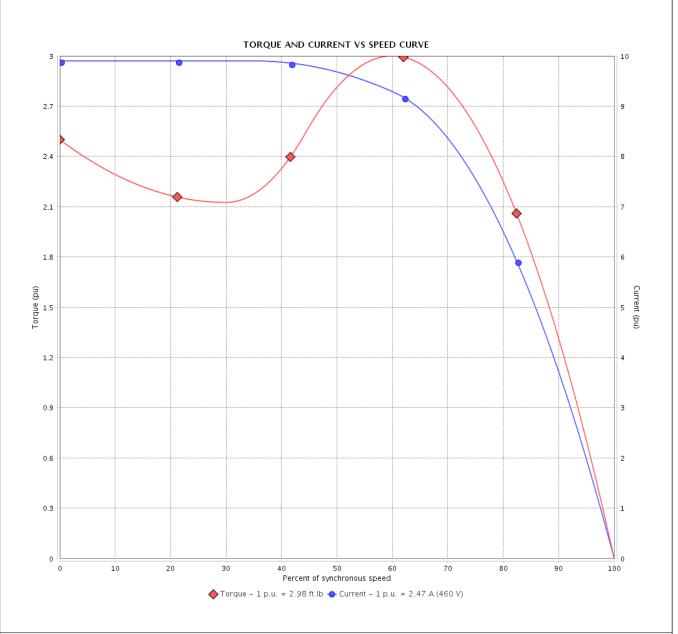
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808609

Catalog #: 00236ET3E145JP-S



Performance : 230/460 V 60 Hz 2P Rated current : 4.94/2.47 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 9.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.98 ft.lb Service factor Locked rotor torque : 250 % : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 3520 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

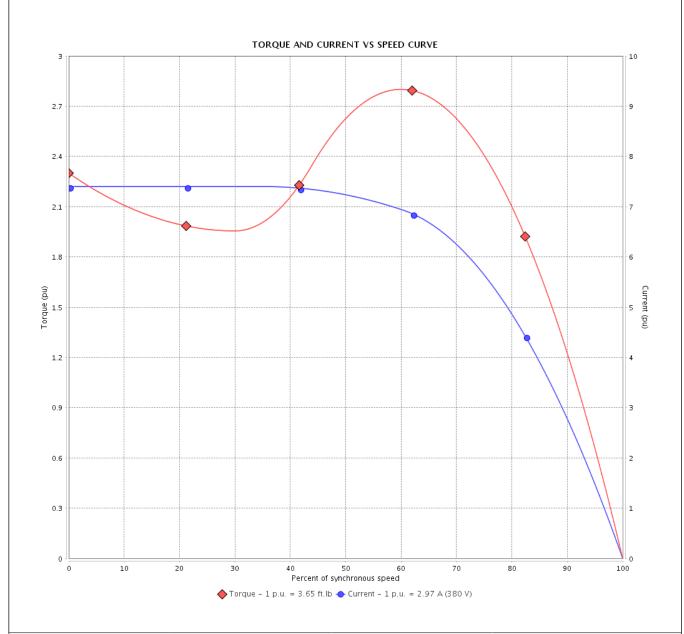


Customer :

Product line : JP Pump NEMA Premium Product code : 14808609

Efficiency Three-Phase

Catalog #: 00236ET3E145JP-S



Performance	: 190/380 V 50 Hz 2P		
Rated current	: 5.94/2.97 A	Moment of inertia (J)	: 0.1279 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 3.65 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2875 rpm	Design	: B
Looked reter time	: Oo (oold) Oo (bot)		

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



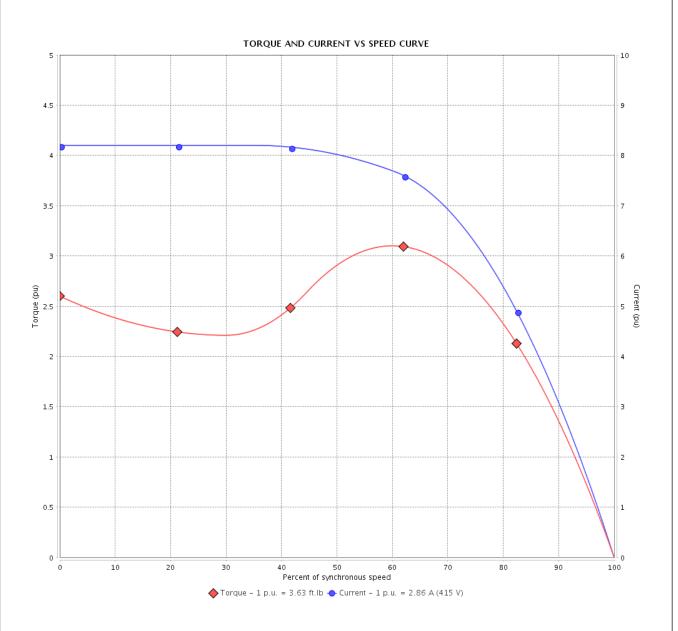
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808609

Catalog #: 00236ET3E145JP-S



Performance	: 220/415 V 50 Hz 2P		
Rated current LRC Rated torque	: 5.39/2.86 A : 8.2 : 3.63 ft.lb	Moment of inertia (J) Duty cycle Insulation class	: 0.1279 sq.ft.lb : Cont.(S1) : F
Locked rotor torque Breakdown torque	: 260 % : 310 %	Service factor Temperature rise	: 1.15 : 80 K
Rated speed	: 2890 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



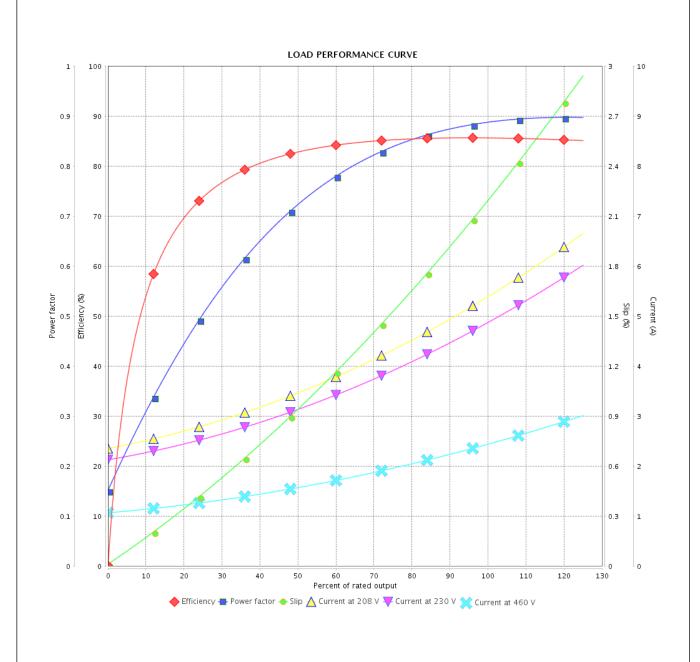
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808609

Catalog #: 00236ET3E145JP-S



Performance	: 2	: 230/460 V 60 Hz 2P				
Rated current	: 4	.94/2.47 A	Moment o	f inertia (J)	: 0.1279 sq.ft.l	b
LRC	: 9	0.9	Duty cycle	:	: Cont.(S1)	
Rated torque	: 2	2.98 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	250 %	Service fa	ctor	:	
Breakdown torque	: 3	800 %	Temperati	Temperature rise		
Rated speed	: 3	520 rpm	Design		: B	
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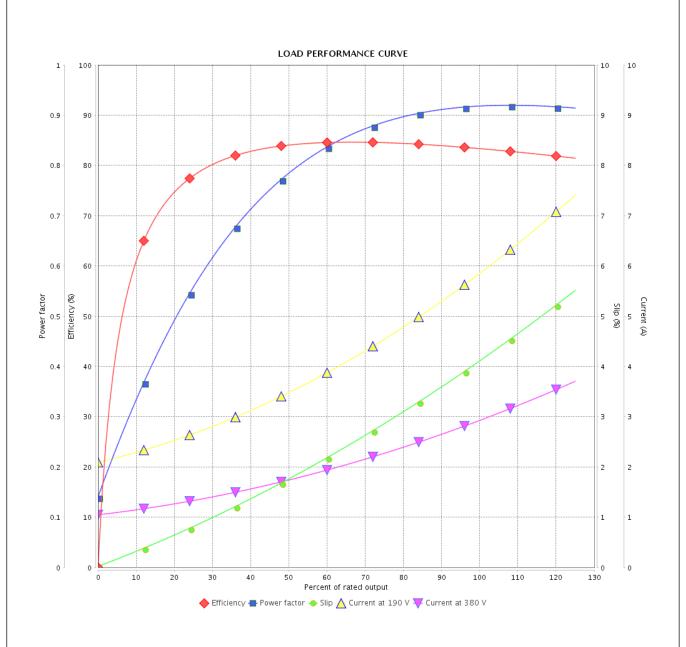
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808609

Catalog #: 00236ET3E145JP-S



Performance : 190/380 V 50 Hz 2P Rated current : 5.94/2.97 A Moment of inertia (J) : 0.1279 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 3.65 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2875 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



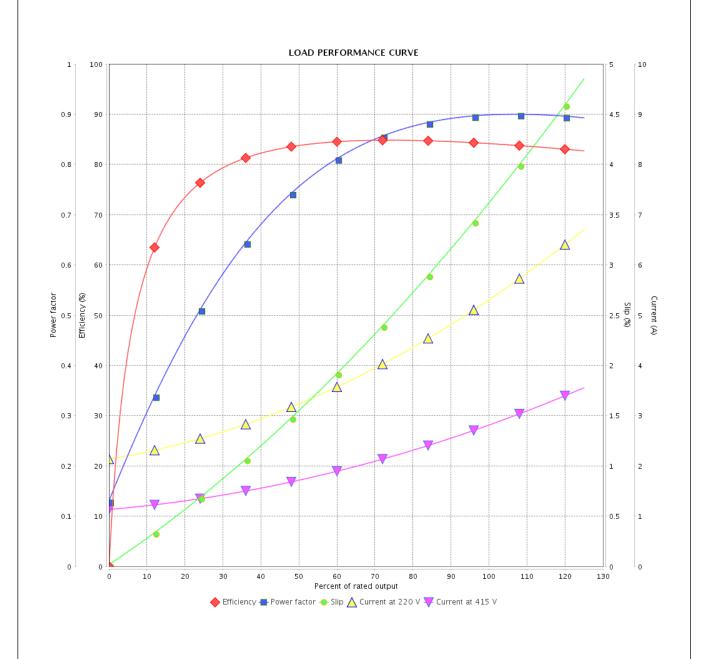
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808609

Catalog #: 00236ET3E145JP-S



Performance	: 2	220/415 V 50 Hz 2P				
Rated current	: 5	5.39/2.86 A	Moment o	Moment of inertia (J)		lb
LRC	: 8	3.2	Duty cycle	}	: Cont.(S1)	
Rated torque	: 3	3.63 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	260 %	Service fa	ctor	: 1.15	
Breakdown torqu	e :3	310 %	Temperature rise		: 80 K	
Rated speed	: 2	2890 rpm	Design		: B	
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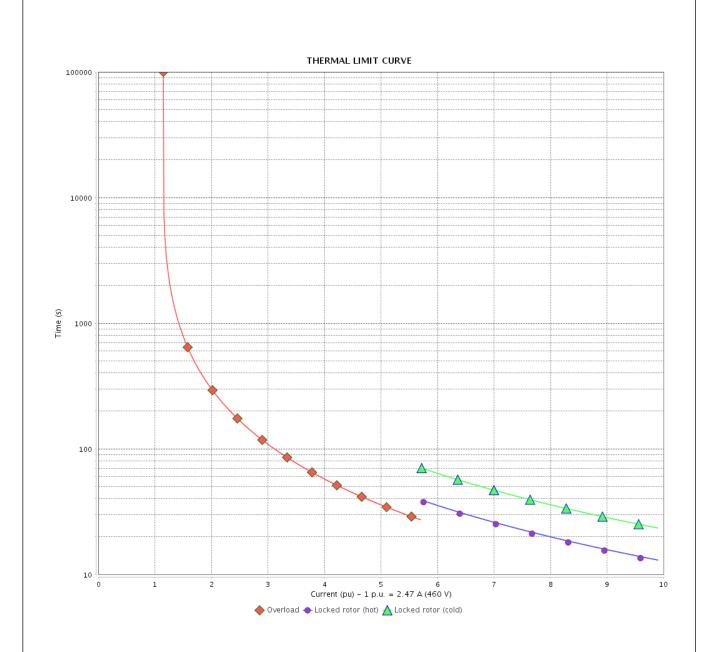


Customer	:					
Product line	:,	JP Pump NEMA Premium		Product code :	14808609	
	E	fficiency Three-Phase		Catalog # :	00236ET3E1	4E ID C
					002002.02.	
Performance		30/460 V 60 Hz 2P				_
Rated current LRC	: 4. : 9.	.94/2.47 A .9	Moment of Duty cycle	f inertia (J)	: 0.1279 sq.ft.l : Cont.(S1)	b
Rated torque	: 2.	.98 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		50 % 00 %	Service fa Temperatu		: : 80 K	
Rated speed		520 rpm	Design		: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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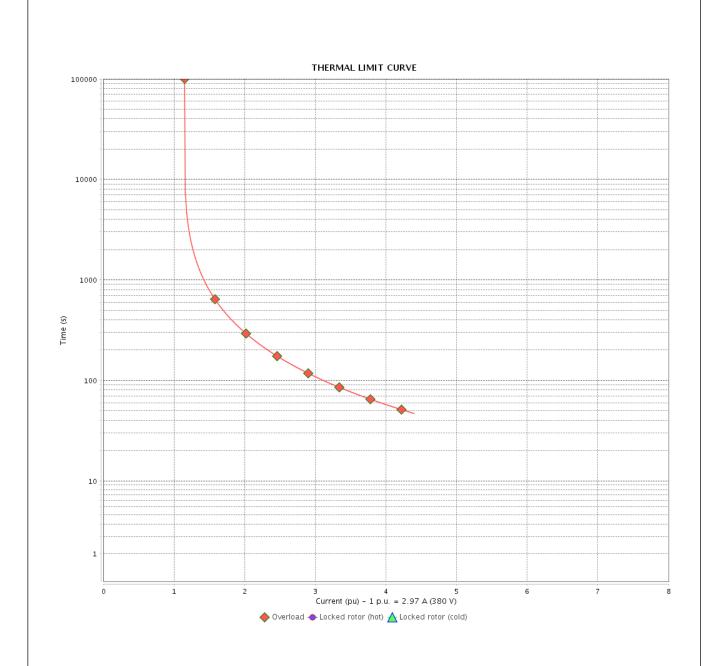


Customer		:				
Decided Pres		ID D NEMA D		De la de la de	4.4000000	
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14808609	
		,		Catalog # :	00236ET3E1	45JP-S
Performance	:	190/380 V 50 Hz 2P				
Rated current		5.94/2.97 A	Moment o	of inertia (J)	: 0.1279 sq.ft.l	b
LRC Rated torque		7.4 3.65 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	229 %	Service fa	ictor	: 1.15	
Breakdown torqu Rated speed		280 % 2875 rpm	Temperati Design	ure rise	: 80 K : B	
		2070 Ιριίι	Design		. .	
Heating constant						
Cooling constant	<u> </u>	Changes Summary		Performed	Checked	Date
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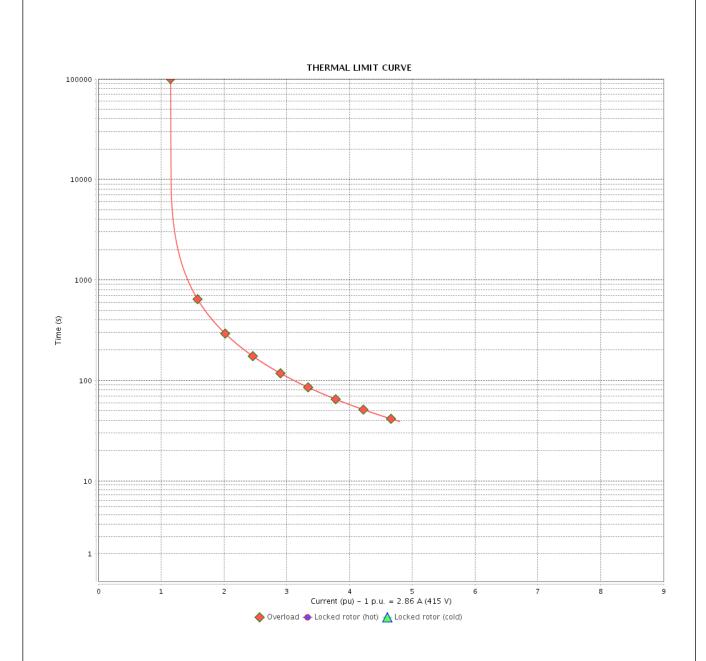


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D 1 1"		10.0 NEW 0 :			4.4000000	
Product line		JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14808609	
	_			Catalog # :	00236ET3E1	45JP-S
Performance		220/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 3 que : 2 ue : 3	5.39/2.86 A 3.2 3.63 ft.lb 260 % 310 % 2890 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1279 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constan	<u> </u>					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



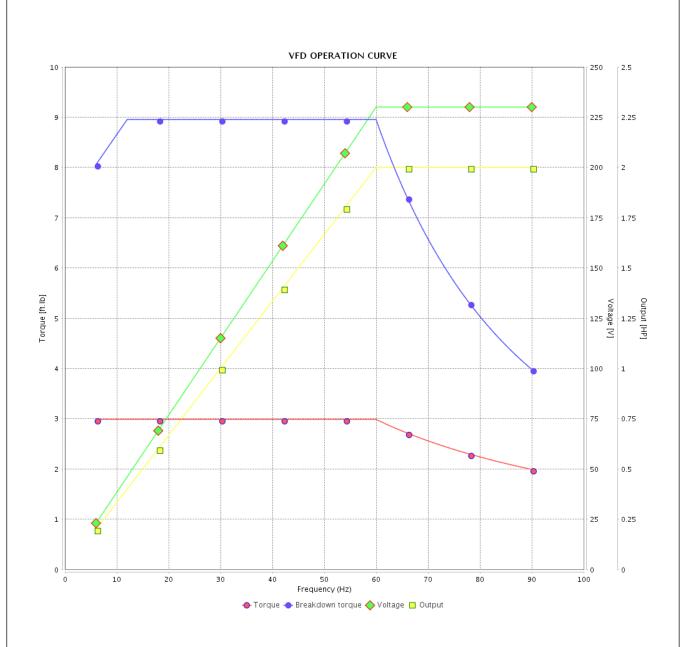
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808609

Catalog #: 00236ET3E145JP-S



Performance	: 2	30/460 V 60 Hz 2P					
Rated current : 4.		.94/2.47 A	Moment o	Moment of inertia (J)		.lb	
LRC : 9.9		.9	Duty cycle	Duty cycle			
Rated torque : 2		.98 ft.lb	Insulation	Insulation class		:F ^	
Locked rotor torque : 2		50 %	Service fa	Service factor		:	
Breakdown torque	e : 3	00 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 3	520 rpm Design		: B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



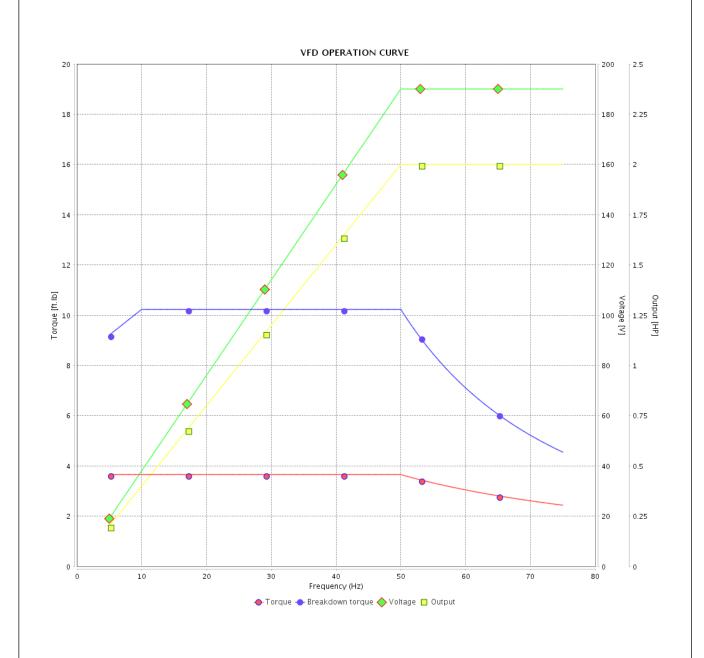
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808609

Catalog #: 00236ET3E145JP-S



Performance	: 19	90/380 V 50 Hz 2P				
Rated current : 5.9 LRC : 7.4		.94/2.97 A .4	l l	Moment of inertia (J) Duty cycle		lb
			Insulation class Service factor			
Breakdown torque Rated speed		80 % 875 rpm	Temperati Design	Temperature rise Design		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

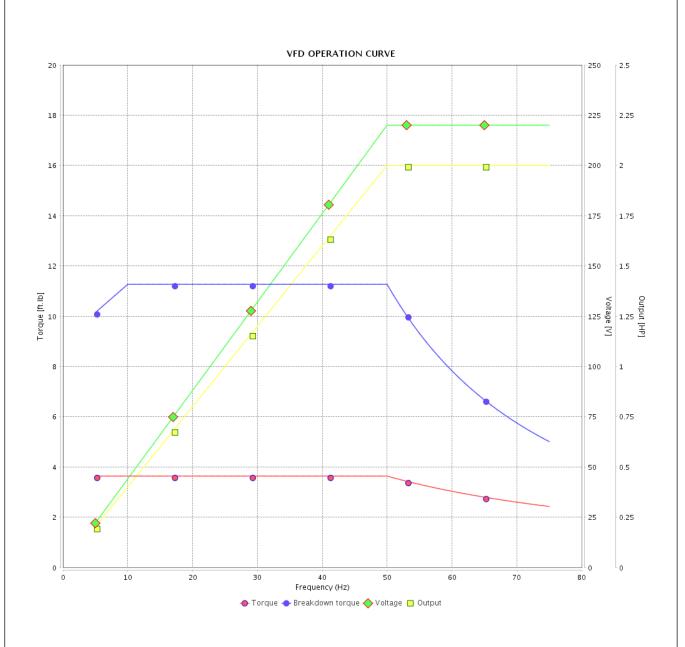
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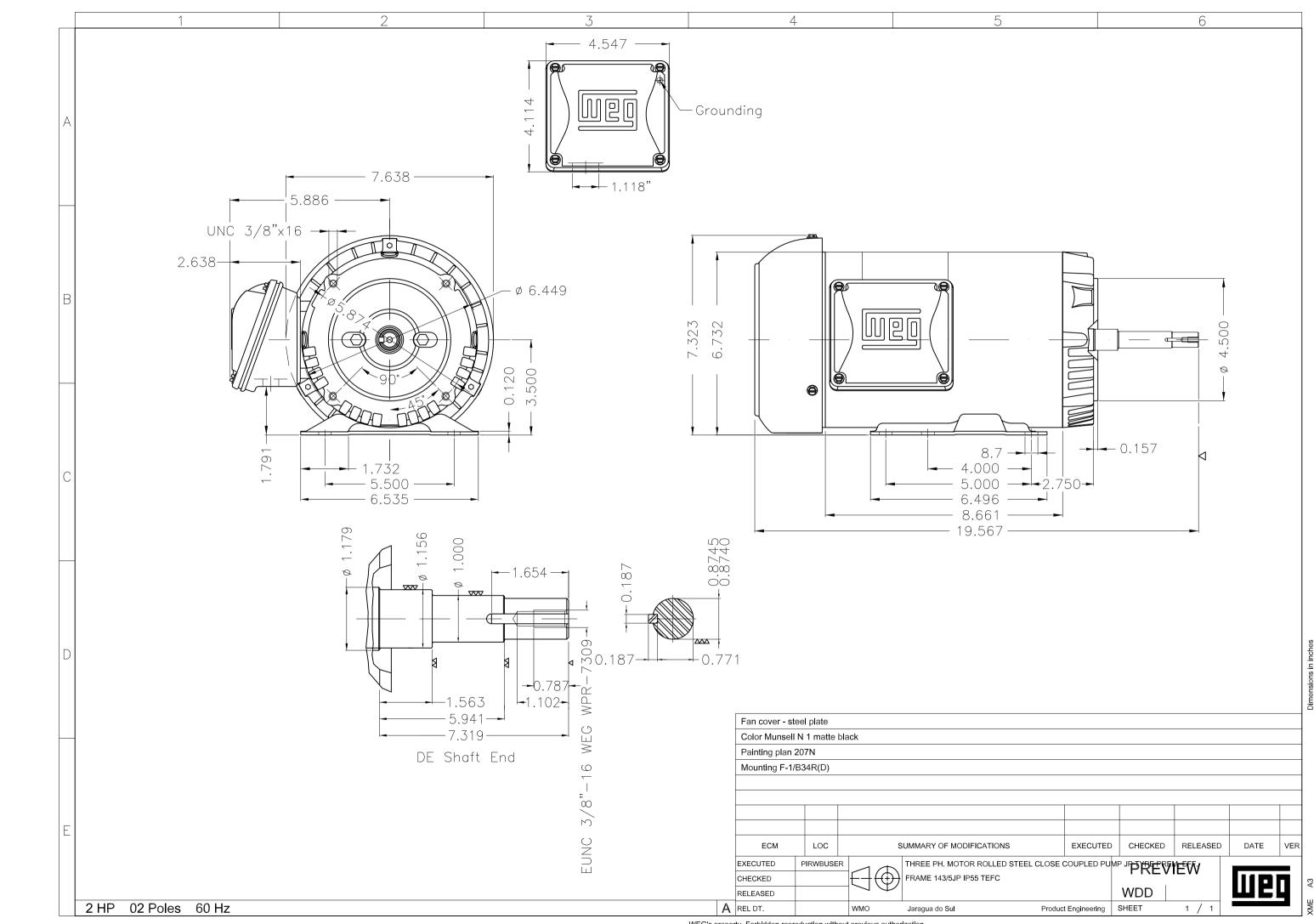


Performance	: 2	20/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 3 que : 2 ue : 3	: 8.2 Duty : 3.63 ft.lb Insu : 260 % Serv		class	: 0.1279 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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3PT9

(**UL)**US LISTED

Energy Verified For 60Hz: Class I, Zone 2,

Class I, Dlv.2, Gr. A.B,C,D - T3

3iv 2 Inverter Duty (SF1.00)

CT 2:1/VT 1000:1

9

ř

IEC 60034-1

EFF 83.3% (IE2)

T2-WHT

11-BLU F5-BLK 17-PNK

T4-YEL

r3-org

T8-RED

P-RED

10:1 CT

motor For 60Hz use on VPWM 1000:1 VT,

safe area-Inverter duty

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

MOBIL POLYREX EM

WARNING: Motor must be grounded in accordance with local and national

6203-ZZ

ODE

5206-ZZ

electrical codes to prevent serious electrical shocks. Disconnect power

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

source before servicing unit.

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine

T6-GRY

SF1.15

190-220/380-415V

SF1.00

5.46A

USABLE @ 208V 2875RPM 50Hz

m.a.s.l.

1000

0.89 SF 1.15

2.0HP

5.94-5.23/2.97-2.77A

ALTERNATE RATING:

NEMA NOM, EFF. 85.5%

INS CL F AT

SFA 5.68/2.84

4.94/2.47

ENCL

255

B

DES

CONT

Z D D 80K AMB

3520 CODE

NdS 2.0(1.5)

HP(kW)

143/5JP

뚠 230/460

PH 3

MODEL 00236ET3H145JM-S

28ABR2020

W01.TE0IC0X0N MAT: 14808609