DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 14008444

Efficiency Three-Phase

Catalog #: 00218OT3E145JP-SG

Frame : 143/5JP Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1
Duty cycle : Cont.(S1) Rotation¹ : Both (CW

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 : 42.3 lb

Design : B Moment of inertia (J) : 0.1168 sq.ft.lb

Design		. В	Moment of Inertia (J)	: 0.1168 Sq.it.ib	
Output [HP]		2	2	2	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		5.38/2.69	6.52/3.26	5.90/3.13	
L. R. Amperes [A]		41.4/20.7	36.5/18.3	36.6/19.4	
LRC [A]		7.7x(Code K)	5.6x(Code G)	6.2x(Code H)	
No load current [A	.]	2.75/1.38	2.70/1.35	2.82/1.49	
Rated speed [RPI	И]	1740	1410	1420	
Slip [%]		3.33	6.00	5.33	
Rated torque [ft.lb]		6.04	7.45	7.40	
Locked rotor torqu		260	200	220	
Breakdown torque	: [%]	320	229	260	
Service factor			1.00	1.00	
Temperature rise		80 K	105 K	80 K	
Locked rotor time		30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
	25%	85.2	88.2	86.4	
Efficiency (%)	50%	85.5	85.9	85.2	
Lindicity (70)	75%	86.5	85.0	85.2	
	100%	86.5	82.2	83.4	
	25%	0.36	0.42	0.38	
Power Factor	50%	0.61	0.69	0.64	
1 OWELL ACTO	75%	0.74	0.80	0.77	
	100%	0.81	0.85	0.83	

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

Bearing type : 6206 ZZ 6203 ZZ Max. traction : 146 lb Sealing : Without Without Max. compression : 188 lb

Bearing Seal Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 5.95A SF 1.00 SFA 5.95A

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.

(4) / 11 100 /0 01 10	iii load.					
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



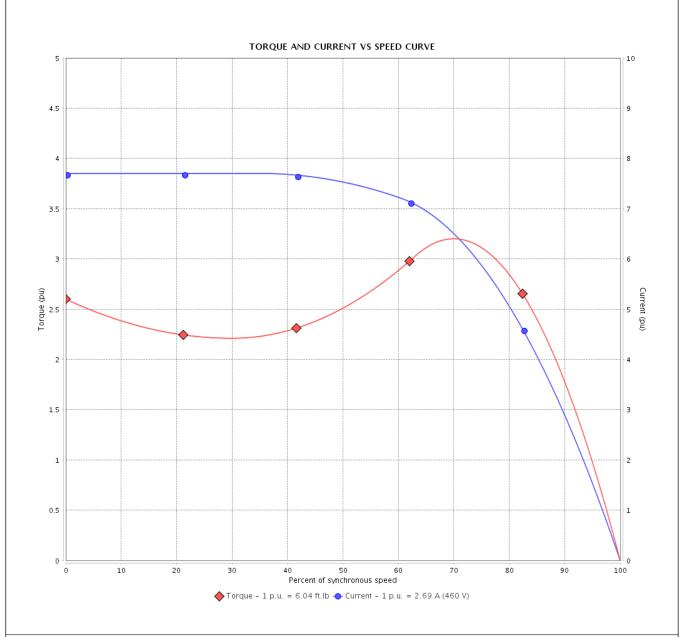
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC	: 5.38/2.69 A : 7.7	Moment of inertia (J) Duty cycle	: 0.1168 sq.ft.lb : Cont.(S1)
Rated torque Locked rotor torque	: 6.04 ft.lb : 260 %	Insulation class Service factor	: F
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: B

Locked rotor time : 30s (cold) 17s (hot)

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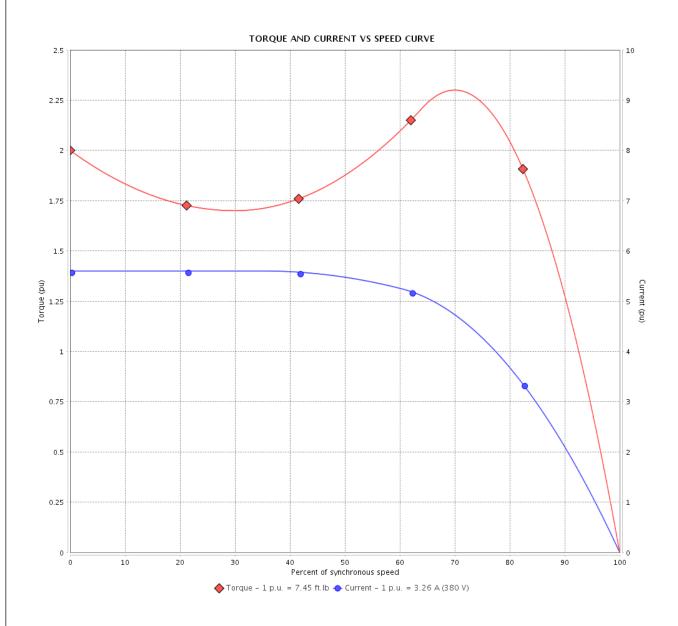
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 6.52/3.26 A	Moment of inertia (J)	: 0.1168 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 7.45 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1410 rpm	Design	: B
Locked rotor time	: Os (cold) Os (bot)	J	

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



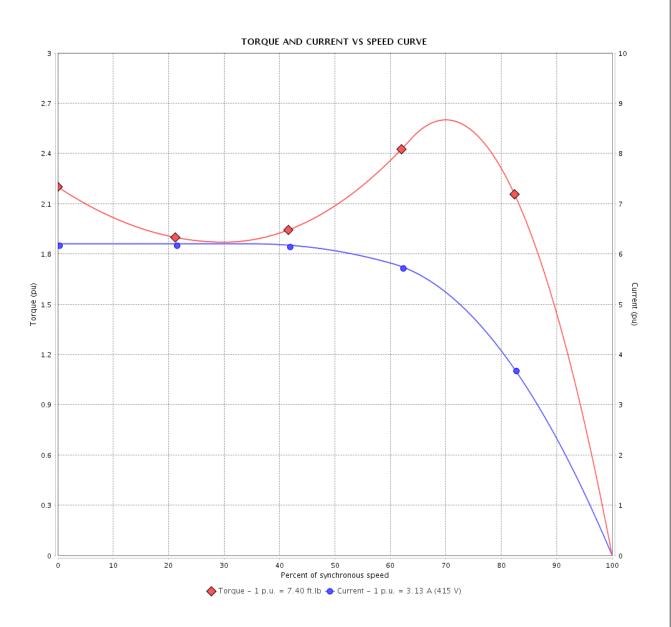
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG



Performance	: 220/415 V 50 Hz 4P			
Rated current	: 5.90/3.13 A	Moment of inertia (J)	: 0.1168 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 7.40 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1420 rpm	Design	: B	
	- r			

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



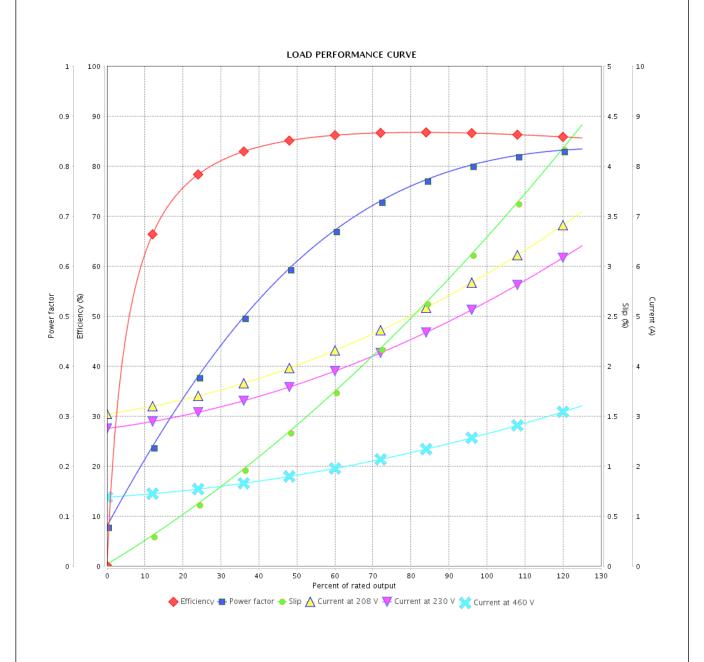
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG



Performance	e : 230/460 V 60 Hz 4P					
Rated current	: 5	5.38/2.69 A	Moment o	f inertia (J)	: 0.1168 sq.ft.lb	
LRC	: 7	7.7	Duty cycle	:	: Cont.(S1)	
Rated torque	: 6	6.04 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	260 %	Service fa	ctor	:	
Breakdown torque	: 3	320 %	Temperati	Temperature rise		
Rated speed	: '	: 1740 rpm		Design		
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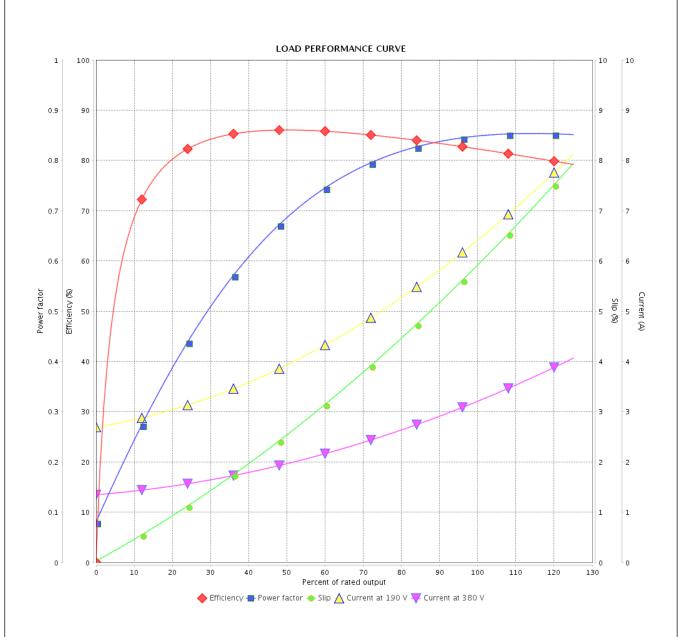
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG



Performance	: 190/380 V 50 Hz 4P				
Rated current	: 6.52/3.26 A	Moment of	f inertia (J)	: 0.1168 sq.ft.lb	
LRC	: 5.6	Duty cycle	•	: Cont.(S1)	
Rated torque	: 7.45 ft.lb	Insulation	class	: F ` ´	
Locked rotor torque	: 200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 229 %	Temperature rise Design		: 105 K	
Rated speed	: 1410 rpm			: B	
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Three Phase Induction Motor - Squirrel Cage



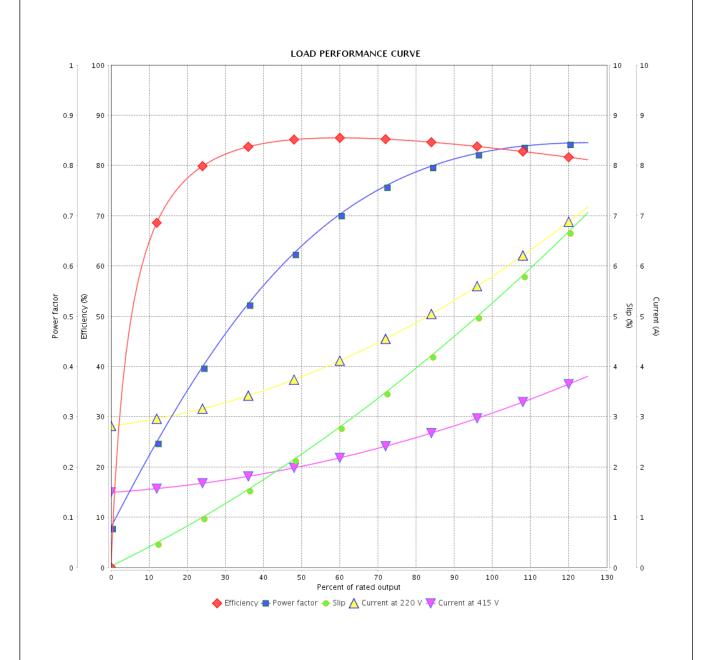
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG



Performance	: 2	20/415 V 50 Hz 4P				
Rated current	: 5	5.90/3.13 A	Moment of	of inertia (J)	: 0.1168 sq.ft.	lb
LRC	: 6	5.2	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 7	'.40 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	20 %	Service fa	actor	: 1.00	
Breakdown torqu	e : 2	.60 %	1000		: 80 K	
Rated speed	: 1	420 rpm			: B	
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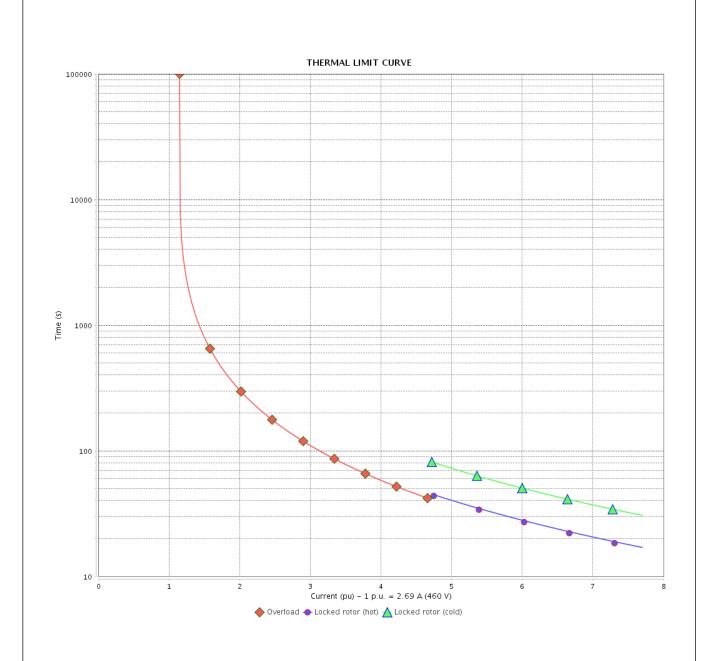


Customer	:					
Product line	: E	JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14008444 00218OT3E1	45JP-SG
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 5 : 7 : 6 que : 2 ue : 3	30/460 V 60 Hz 4P 3.38/2.69 A 7.7 3.04 ft.lb 60 % 20 % 740 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.1168 sq.ft.lk : Cont.(S1) : F : : 80 K : B)
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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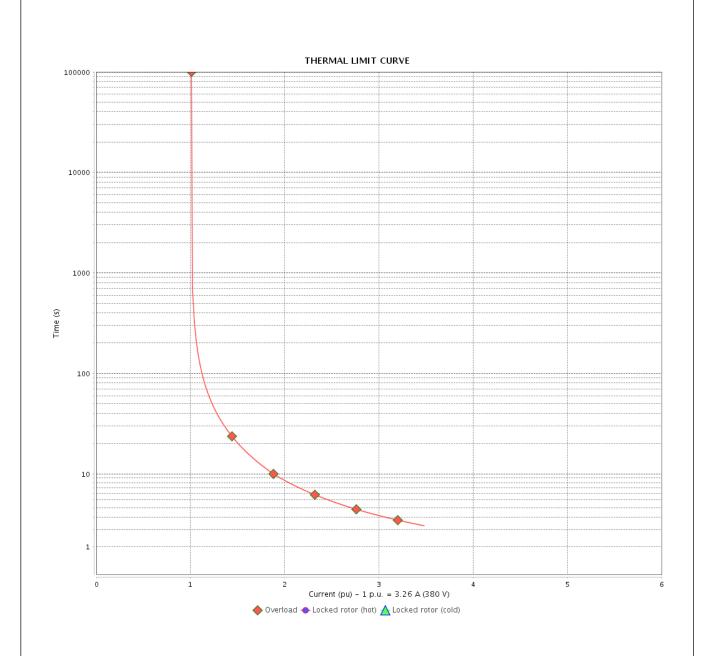


Customer	:				
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Pro	oduct code :	14008444	
	Elliciency Three-Phase	Ca	italog # :	00218OT3E	I45JP-SG
Performance Rated current	: 190/380 V 50 Hz 4P : 6.52/3.26 A	Moment of ir	pertia (I)	: 0.1168 sq.ft.l	h
LRC	: 5.6	Duty cycle		: Cont.(S1)	U
Rated torque Locked rotor torque	: 7.45 ft.lb : 200 %	Insulation cla		: F : 1.00	
Breakdown torque	: 229 %	Temperature		: 105 K	
Rated speed	: 1410 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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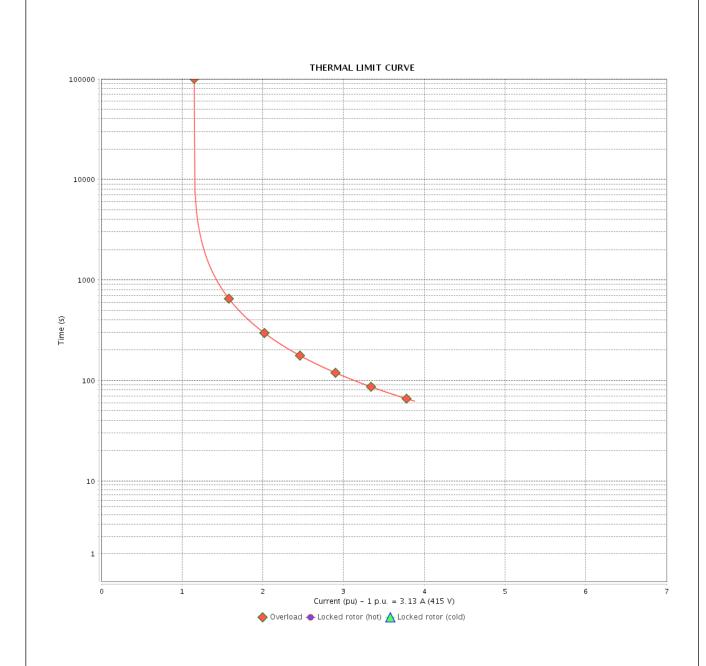


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14008444	
		Emotiney Times Times		Catalog # :	00218OT3E1	45JP-SG
Performance		220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord	: :	5.90/3.13 A 6.2 7.40 ft.lb 220 %	Moment o Duty cycle Insulation Service fa	class	: 0.1168 sq.ft.ll : Cont.(S1) : F : 1.00	0
Breakdown torqu Rated speed	ie :	260 % 1420 rpm	Temperatu Design		: 80 K : B	
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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



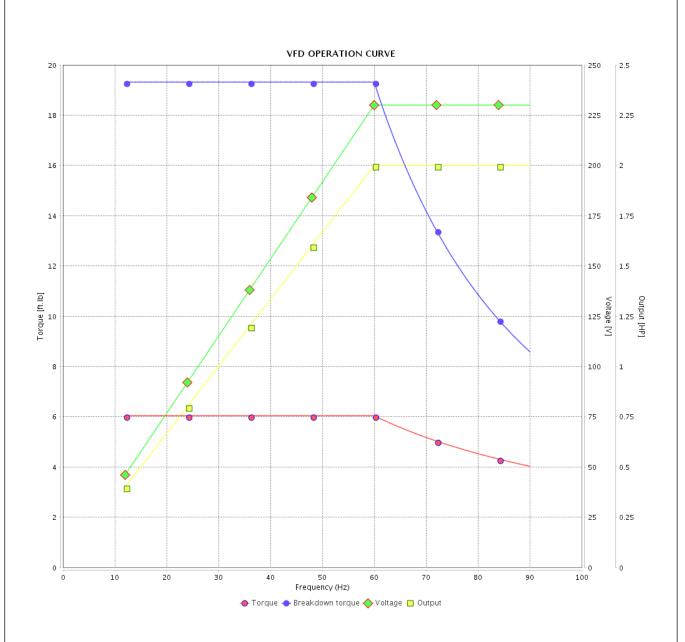
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG



Performance	: 230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.38/2.69 A : 7.7 : 6.04 ft.lb : 260 % : 320 % : 1740 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1168 sq.ft.lb : Cont.(S1) : F : : 80 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

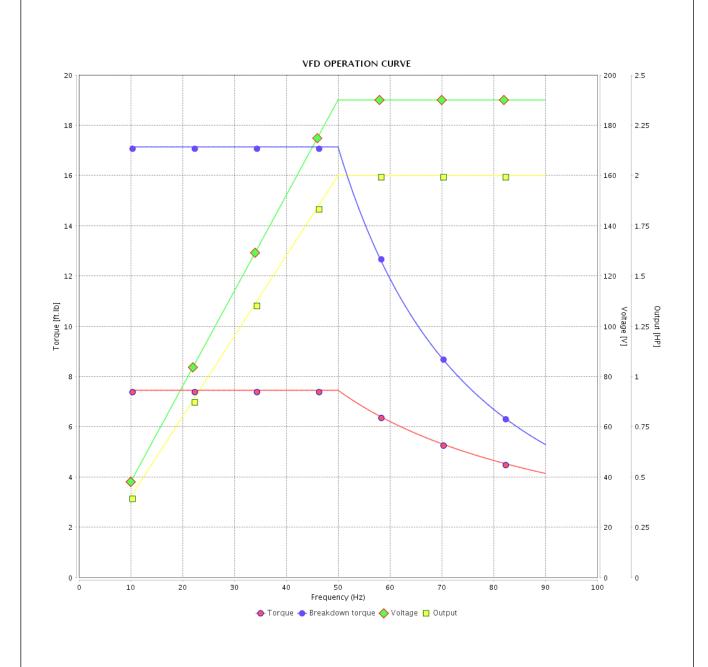
Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG

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Performance : 190/380 V 50 Hz 4P Rated current : 6.52/3.26 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 7.45 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1410 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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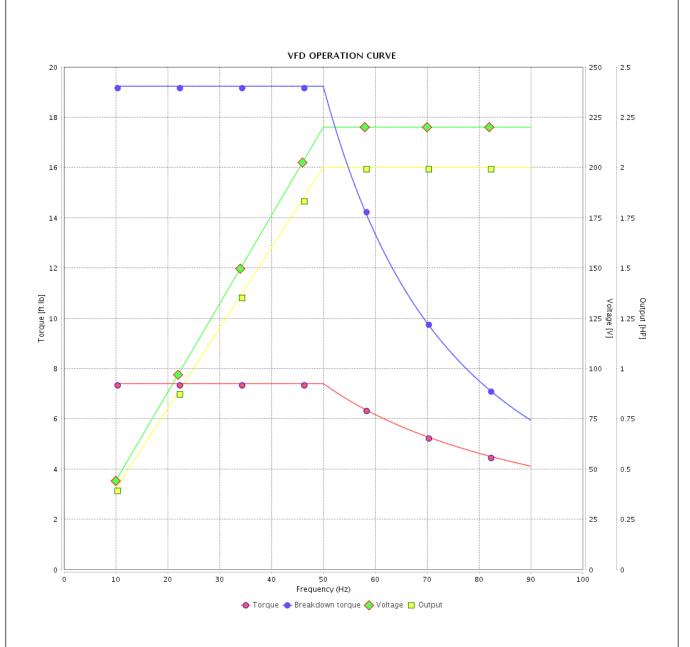
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Product line : JP Pump NEMA Premium

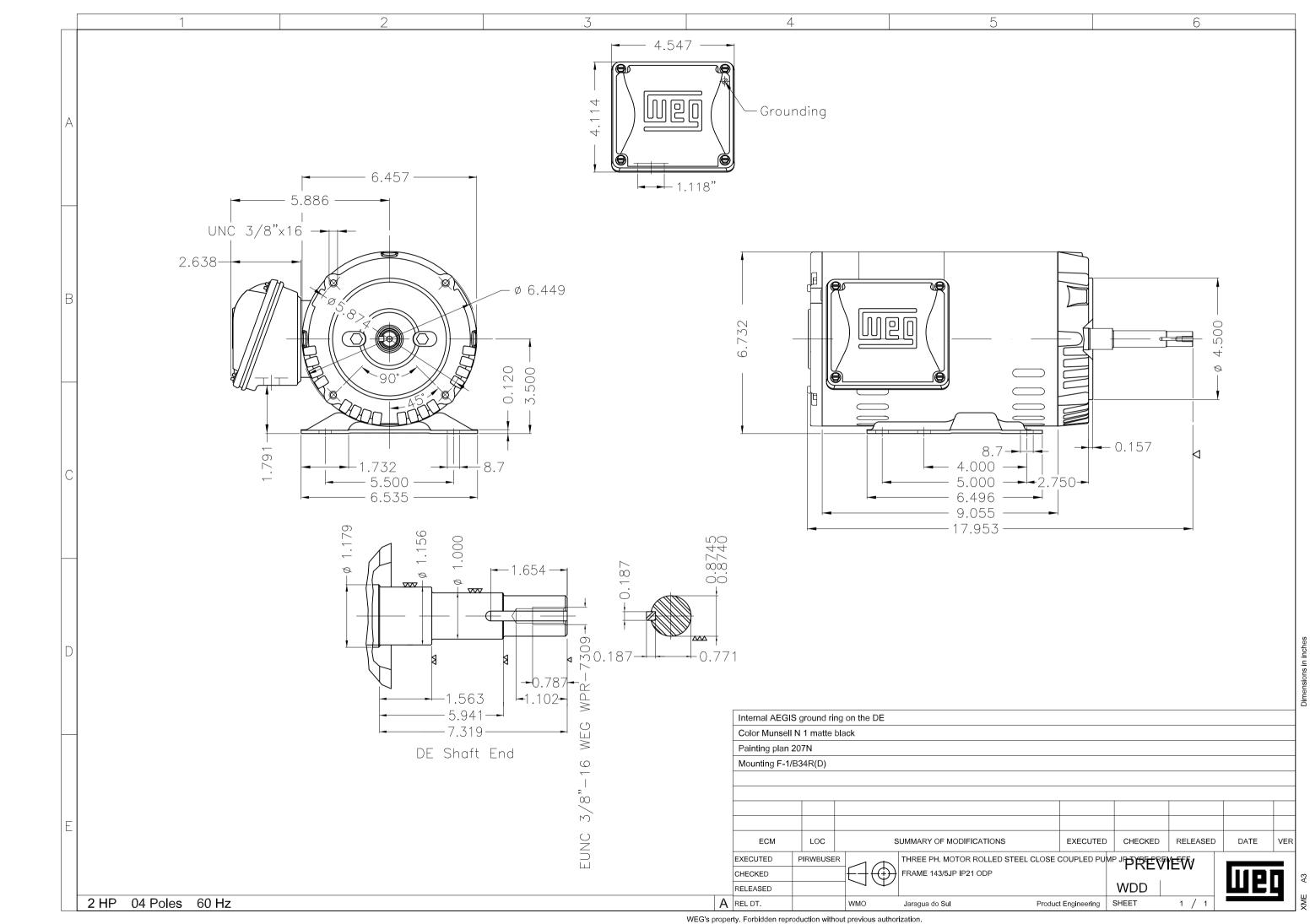
Efficiency Three-Phase

Product code: 14008444

Catalog #: 00218OT3E145JP-SG



Performance : 220/415 V 50 Hz 4P Rated current : 5.90/3.13 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 7.40 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1420 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by



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(**UL)**US LISTED 3PT9

Energy Verifi

MODEL 00218OT3E145JP-SG N01.TODICOXON

CC029A

14008444

MADE IN MÉXICO

B/N 01MAR2022

8 4

143/5.IP

CONT

1000 m.a.s.l F AT 80K 2°04

NSC

5.38/2.69

230/460 1.15

> CODE DES SABLE @ 208V 5.95A

900

ZPM 3FA 냃 쌆

> 2.0HP LTERNATE RATING:

SF1.00 NCL 2

86.5%

NOM EFF 1410RPM

50 Hz

3.52-5.79/3.26-3.07A

IEC 60034-1

5:1 CT

SF1.00

8203-ZZ

ODE

8206-ZZ

9

2

190-220/380-415V

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. MOBIL POLYREX EM **EFF 82.2%**

19

T2-WHT

13-ORG T1-BLU I7-PNK F5-BLK

F6-GRY T4-YEL

T9-BRK RED

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



T8-RED

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical