DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JP Pump NEMA Premium Product code: 12682721

Efficiency Three-Phase

Catalog #: 00158OT3E145JP-S

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

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

Approx. weight³ : 44.4 lb Altitude : 1000 m.a.s.l.

Design		: B	Moment of inertia (J)	: 0.1426 sq.ft.lb
Output [HP]		1.5	1.5	1.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.14/2.07	4.84/2.42	4.41/2.34
L. R. Amperes [A]		36.0/18.0	31.0/15.5	30.9/16.4
LRC [A]		8.7x(Code L)	6.4x(Code H)	7.0x(Code J)
No load current [A	.]	2.40/1.20	2.36/1.18	2.41/1.28
Rated speed [RPI	Л]	1760	1440	1445
Slip [%]		2.22	4.00	3.67
Rated torque [ft.lb		4.48	5.47	5.45
Locked rotor torqu	ie [%]	280	190	220
Breakdown torque	: [%]	330	250	280
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (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%	83.6	85.3	84.0
Efficiency (%)	50%	84.0	84.3	83.6
Lindicity (70)	75%	86.5	84.7	84.8
	100%	86.5	83.2	83.9
	25%	0.32	0.38	0.35
Power Factor	50%	0.56	0.64	0.60
1 OWEL 1 actor	75%	0.69	0.77	0.73
	100%	0.77	0.83	0.81

Non drive end Drive end Foundation loads

Bearing type 6206 ZZ 6203 ZZ : 110 lb Max. traction Sealing Without Without Max. compression : 155 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 4.58A SF 1.00 SFA 4.58A

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



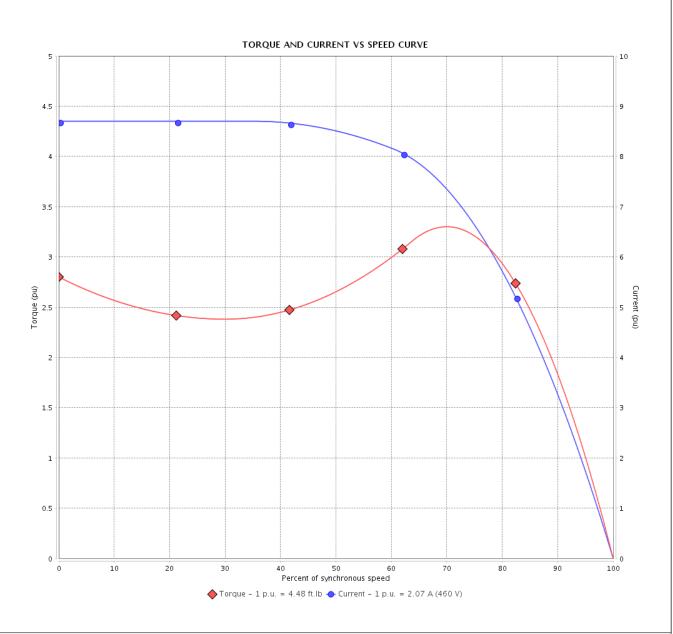
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682721

Catalog #: 00158OT3E145JP-S



Performance : 230/460 V 60 Hz 4P Rated current : 4.14/2.07 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) : F : 4.48 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 280 % : 80 K Breakdown torque : 330 % Temperature rise Rated speed : 1760 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 Product code: 12682721 Efficiency Three-Phase Catalog #: 00158OT3E145JP-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆Torque - 1 p.u. = 5.47 ft.lb ◆ Current - 1 p.u. = 2.42 A (380 V) : 190/380 V 50 Hz 4P Performance Moment of inertia (J) : 0.1426 sq.ft.lb Rated current : 4.84/2.42 A : Cont.(S1) LRC : 6.4 Duty cycle Rated torque : 5.47 ft.lb Insulation class

Breakdown torque : 25 Rated speed : 14		Temperatur Design		: 80 K : B	
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1	e : 25 : 14 e : 0	: 250 % : 1440 rpm : 0s (cold) 0s (hot) Changes Sumr	ie : 250 % Temperatur : 1440 rpm Design e : 0s (cold) 0s (hot) Changes Summary	Temperature rise 250 % 21440 rpm Design Changes Summary Performed	Temperature rise : 80 K : 1440 rpm Design : B E : 0s (cold) 0s (hot) Changes Summary Performed Checked

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



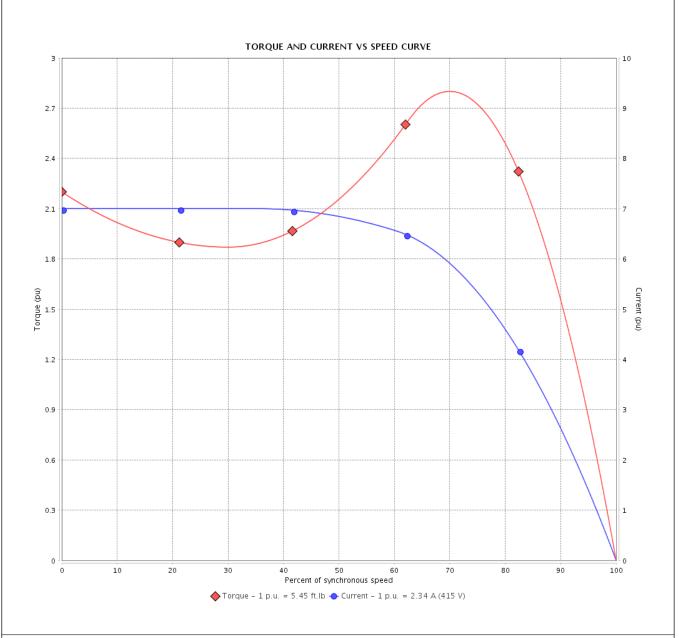
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682721

Catalog #: 00158OT3E145JP-S



Performance : 220/415 V 50 Hz 4P Rated current : 4.41/2.34 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 5.45 ft.lb Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



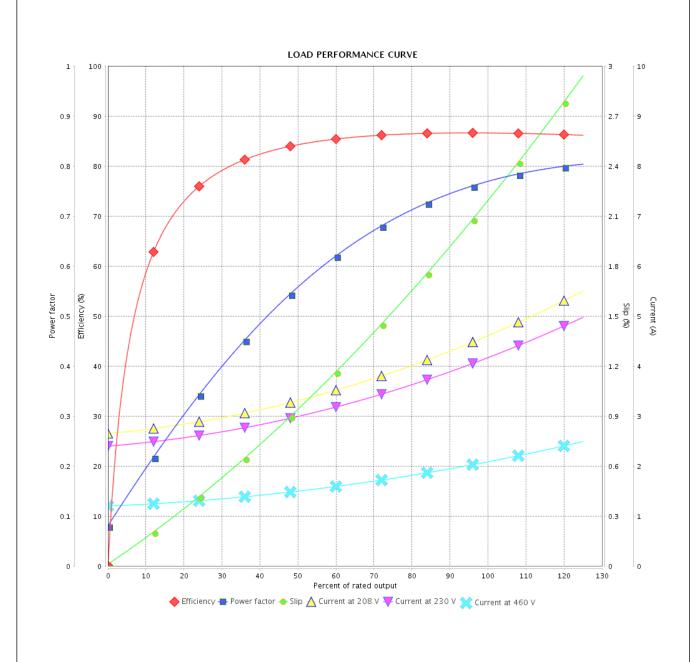
Customer

Product line : JP Pump NEMA Premium Product

Efficiency Three-Phase

Product code: 12682721

Catalog # : 00158OT3E145JP-S



Performance	erformance : 230/460 V 60 Hz 4P						
Rated current	Rated current : 4.14/2.07 A		Moment o	f inertia (J)	: 0.1426 sq.ft.lb		
LRC	: 8	3.7	Duty cycle	;	: Cont.(S1)		
Rated torque	: 4	.48 ft.lb	Insulation	class	: F		
Locked rotor torque	ed rotor torque : 280 %		Service fa	ctor	:		
Breakdown torque	: 3	30 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	760 rpm	Design		: B		
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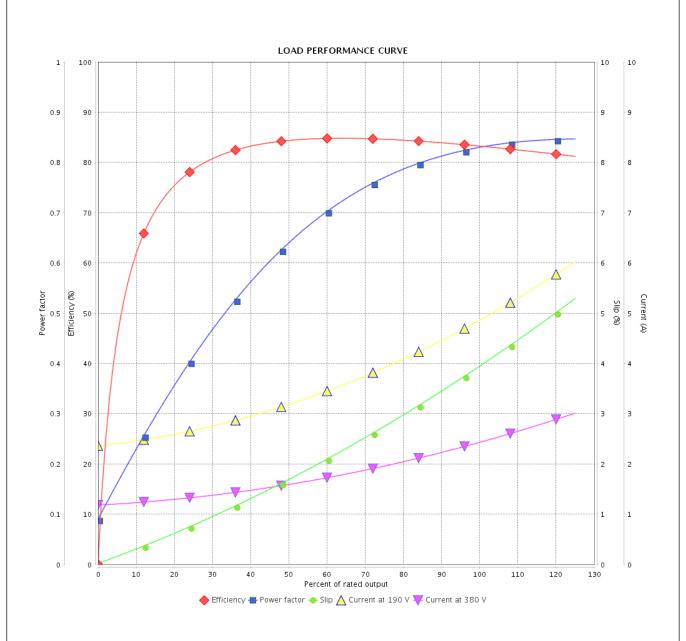
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682721

Catalog #: 00158OT3E145JP-S



Performance : 190/380 V 50 Hz 4P Rated current : 4.84/2.42 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 : 5.47 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



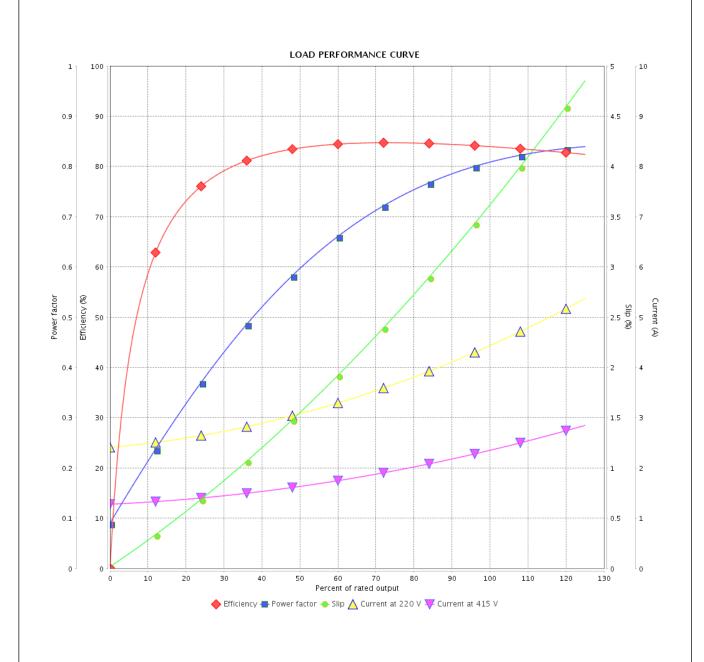
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682721

Catalog #: 00158OT3E145JP-S



Performance	Performance : 220/415 V 50 Hz 4P					
Rated current	Rated current : 4.41/2.34 A		Moment o	f inertia (J)	: 0.1426 sq.ft.lb	
LRC		7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	:	: 5.45 ft.lb	Insulation	class	: F	
Locked rotor torque			Service fa	ctor	: 1.15	
Breakdown torque	:	: 280 %	Temperature rise		: 80 K	
Rated speed	:	: 1445 rpm	Design		: B	
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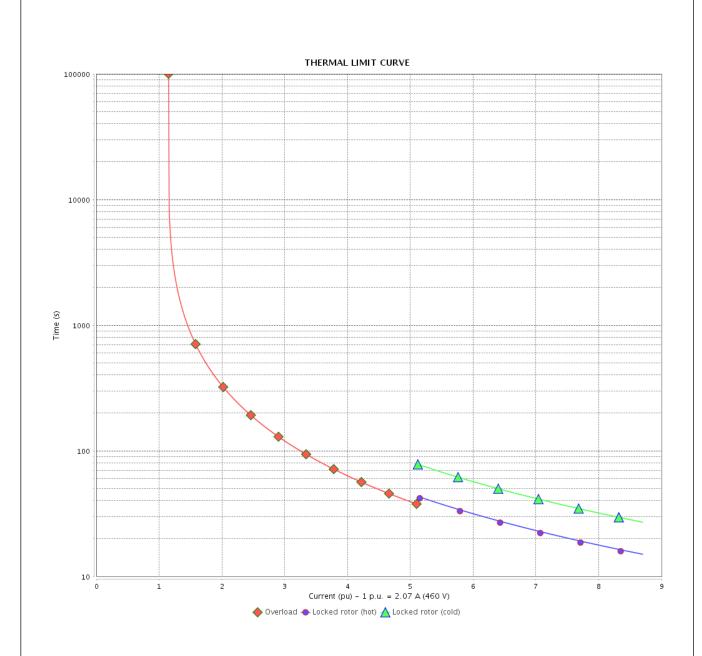


Customer	:					
Product line	: .	JP Pump NEMA Premium	I	Product code :	12682721	
	E	fficiency Three-Phase	(Catalog # :	00158OT3E1	I45JP-S
Performance	: 23	30/460 V 60 Hz 4P				
Rated current	: 4.	14/2.07 A	Moment of	finertia (J)	: 0.1426 sq.ft.l	b
LRC Rated torque	: 8. · 4	7 48 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	ue : 28	30 %	Service fa	ctor	:	
Breakdown torque Rated speed		30 % 760 rpm	Temperatu Design	re rise	: 80 K : B	
	. 11	· P····				
Heating constant Cooling constant						
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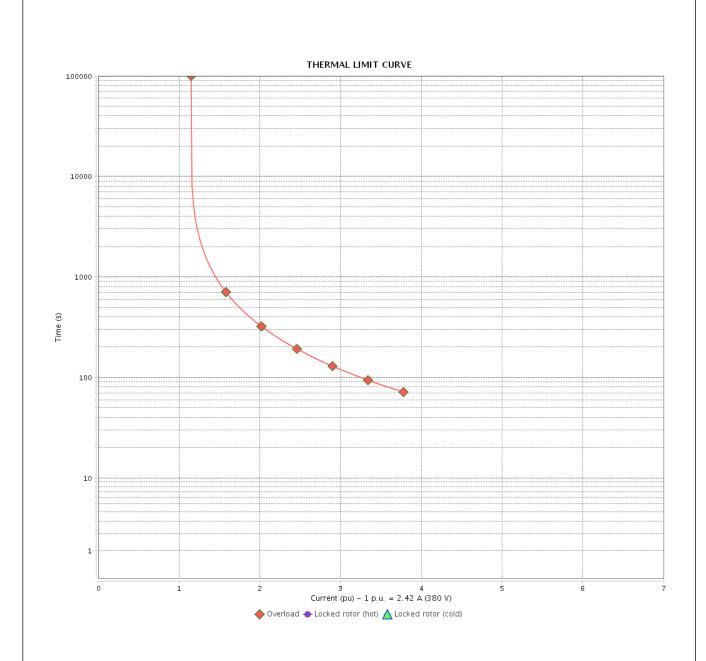


Customer	:	:				
Product line	:	: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12682721	
		,	(Catalog # :	00158OT3E	145JP-S
Performance		190/380 V 50 Hz 4P				
Rated current LRC		4.84/2.42 A 6.4	Moment of Duty cycle		: 0.1426 sq.ft. : Cont.(S1)	lb
Rated torque		5.47 ft.lb	Insulation		: F	
Locked rotor toro		190 %	Service fa		: 1.15	
Breakdown torqu Rated speed		250 % 1440 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		·				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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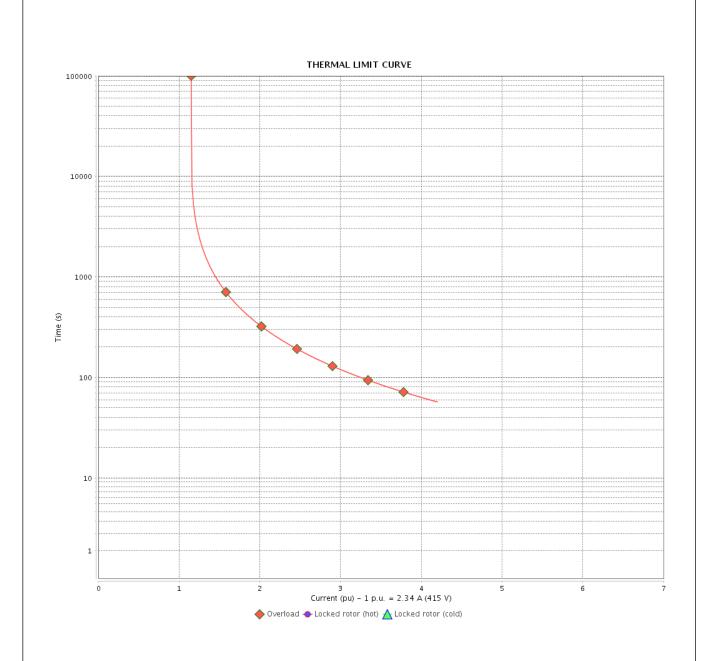


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12682721	
		Linciency Three-Friase		Catalog # :	00158OT3E	145JP-S
Performance		: 220/415 V 50 Hz 4P				
Rated current		: 4.41/2.34 A	Moment of	of inertia (J)	: 0.1426 sq.ft.l	b
LRC		: 7.0	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torc		: 5.45 ft.lb : 220 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	: 280 %	Temperat		: 80 K	
Rated speed	•	: 1445 rpm	Design		: B	
Heating constant						
Cooling constant	t					
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

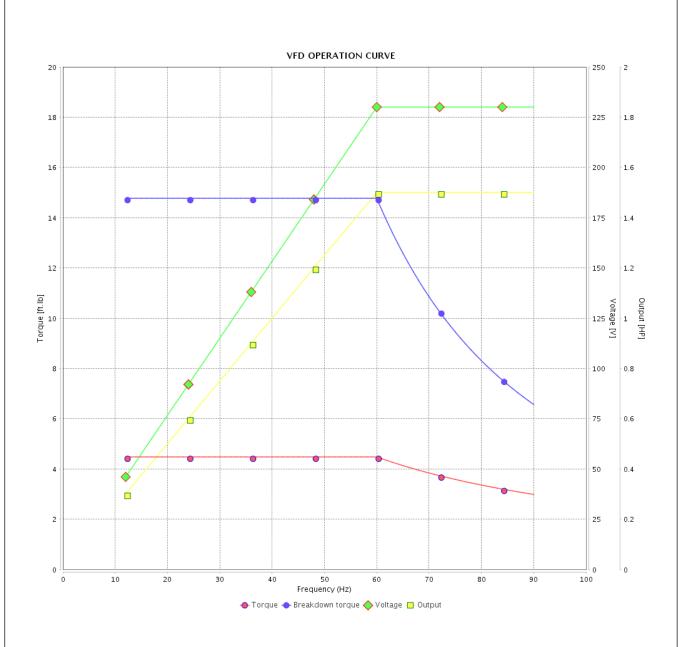
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682721

Catalog #: 00158OT3E145JP-S



Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 4 que : 2 ue : 3	.14/2.07 A .7 .48 ft.lb 80 % 30 % 760 rpm	Duty cycle Insulation class Service factor Temperature rise		: 0.1426 sq.ft.lb : Cont.(S1) : F : : 80 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



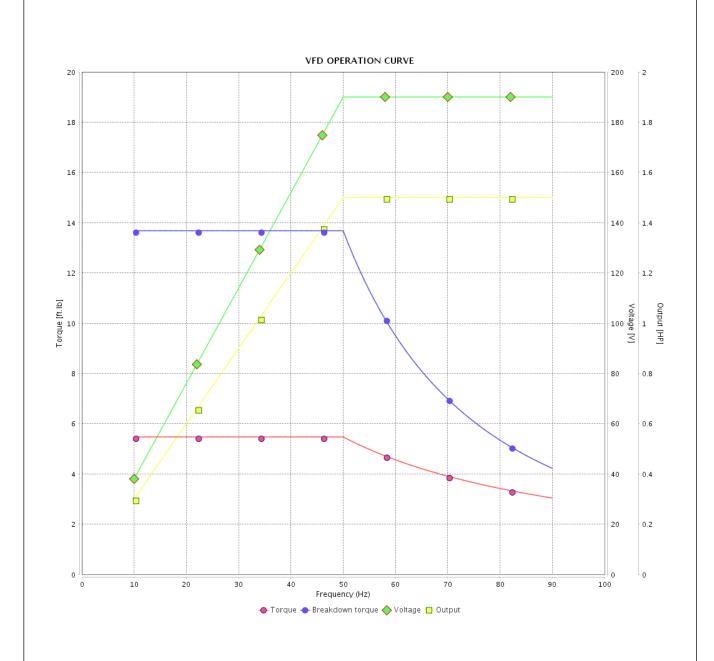
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682721

Catalog #: 00158OT3E145JP-S



Performance	: '	: 190/380 V 50 Hz 4P						
Rated current	: 4	: 4.84/2.42 A Moment of		of inertia (J) : 0.1426 sq.ft.l		lb		
LRC	: (6.4	Duty cycle		: Cont.(S1)			
Rated torque	:	5.47 ft.lb	Insulation class		: F			
Locked rotor torque	e : '	190 %	Service factor		: 1.15			
Breakdown torque	: 2	250 %	Temperature rise		: 80 K			
Rated speed	: '	: 1440 rpm		Design		: B		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

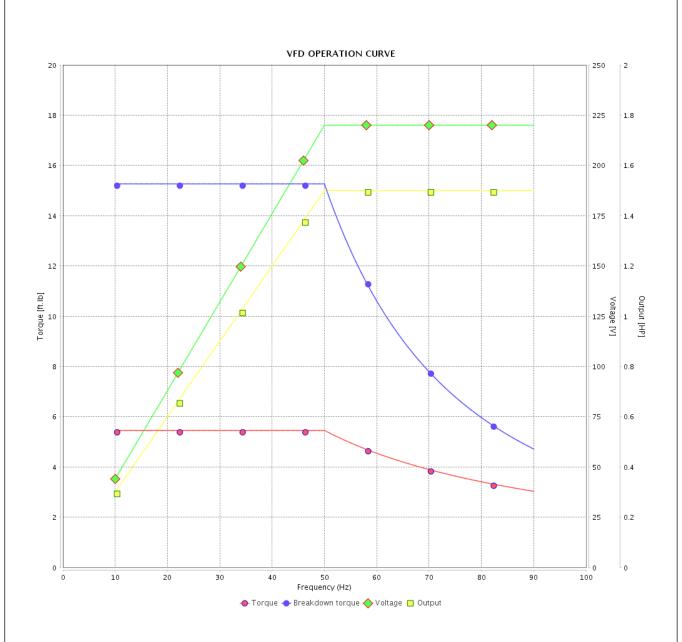
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682721

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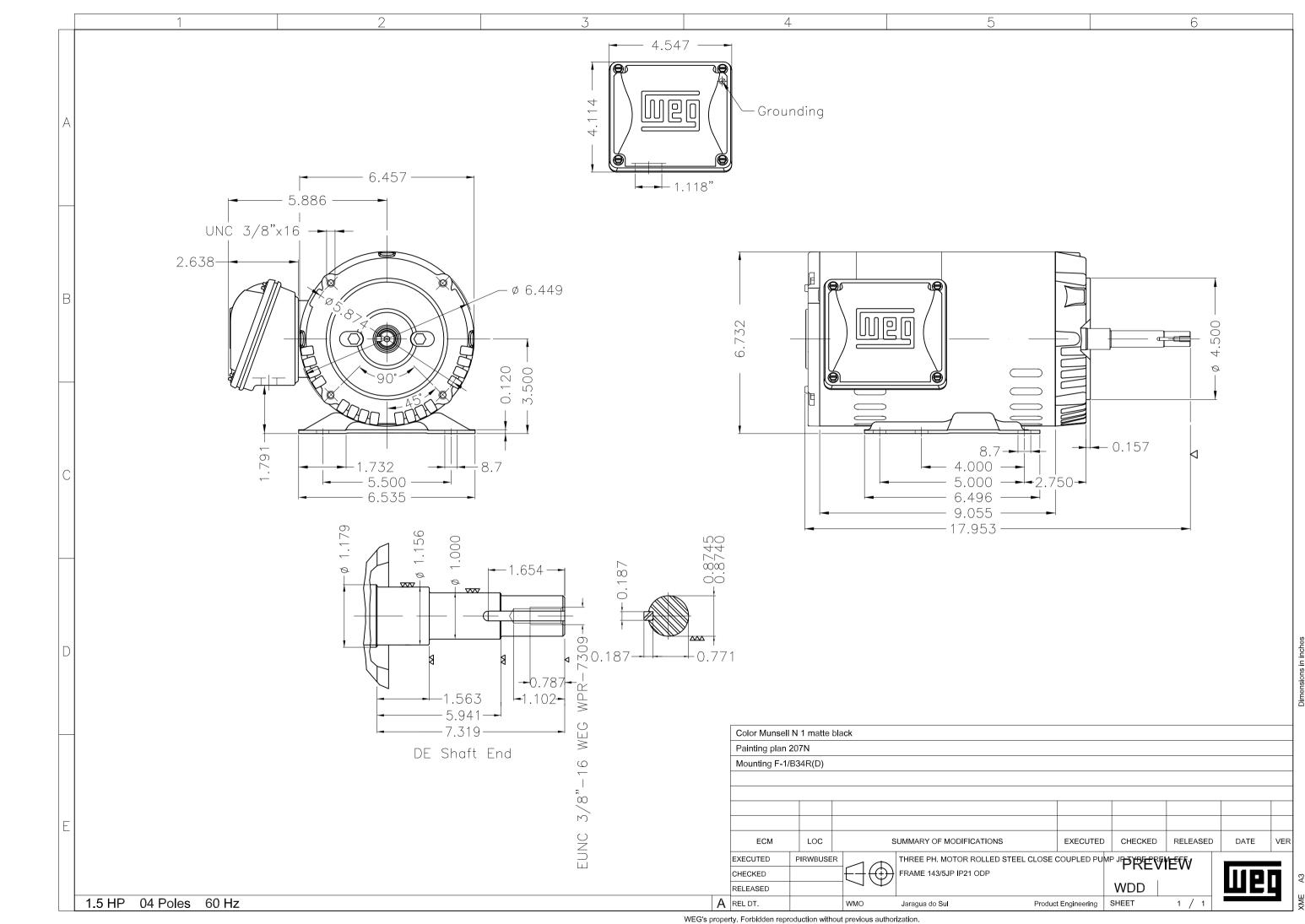


Performance : 220/415 V 50 Hz 4P Rated current : 4.41/2.34 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 5.45 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Energy Verifi

MODEL 001580T3E145JP-S 8 4 JAN2022

N01.TODICOXON

12682721

MADE IN MÉXICO

143/5.IP CONT

DES 1000 m.a.s. F AT 80K 2°04 900

NSC

4.76/2.38

1.15

CODE SABLE @ 208V 4.58A LTERNATE RATING:

SF1.00 INC. 2

ZPM SFA 냃 쌆

NOM EFF 50 Hz 8203-ZZ 1.5FP

84-4.34/2.42-2.30A

1440RPM

IEC 60034

5:1 CT

SF1.15

190-220/380-415V

86.5%

ODE

8206-ZZ

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. MOBIL POLYREX EM **EFF 83.2%**

5

9

2

T2-WHT

T4-YEL

13-ORG 1-BLU



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

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

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

