# **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 12682720

Efficiency Three-Phase

Catalog #: 00118OT3E143JP-S

Frame : 143/5JP 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 : 37.5 lb

Approx. Weight . 37.3 b

Design		: B	Moment of inertia (J)	: 0.1101 sq.ft.lb
Output [HP]		1	1	1
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.02/1.51	3.44/1.72	3.15/1.67
L. R. Amperes [A]		24.2/12.1	22.4/11.2	22.4/11.9
LRC [A]		8.0x(Code L)	6.5x(Code J)	7.1x(Code K)
No load current [A	]	1.92/0.958	1.88/0.942	1.93/1.02
Rated speed [RPI	<b>/</b> 1]	1760	1445	1450
Slip [%]		2.22	3.67	3.33
Rated torque [ft.lb]		2.98	3.63	3.62
Locked rotor torqu	e [%]	290	200	229
Breakdown torque	[%]	360	270	300
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	79.9	82.2	80.7
Efficiency (%)	50%	81.5	81.9	81.0
Linderity (70)	75%	84.0	83.4	83.2
100%		85.5	82.6	83.1
	25%	0.29	0.34	0.31
Power Factor	50%	0.51	0.59	0.55
1 01101 1 40101	75%	0.65	0.73	0.69
	100%	0.73	0.80	0.78

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

Bearing type : 6206 ZZ 6203 ZZ Max. traction : 76 lb Sealing : Without Without Max. compression : 113 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 3.34A SF 1.00 SFA 3.34A

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



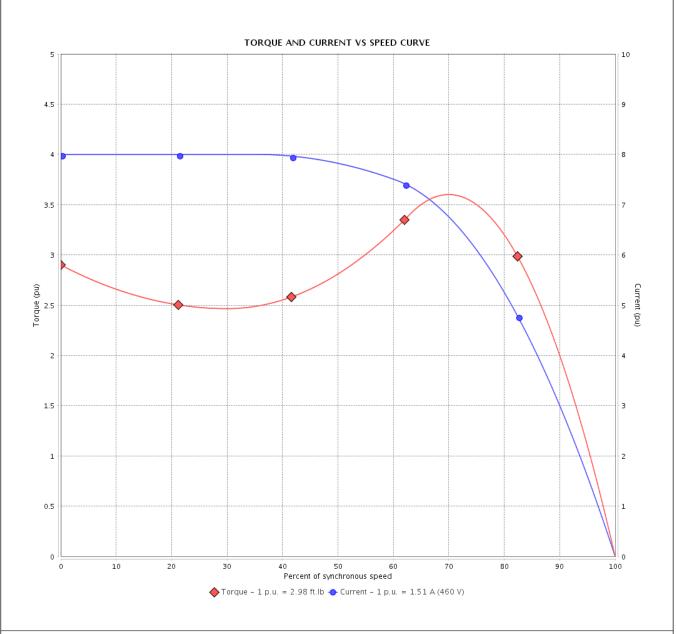
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682720

Catalog #: 00118OT3E143JP-S



Performance : 230/460 V 60 Hz 4P Rated current : 3.02/1.51 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F : 2.98 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 290 % : 80 K Breakdown torque : 360 % Temperature rise Rated speed : 1760 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE

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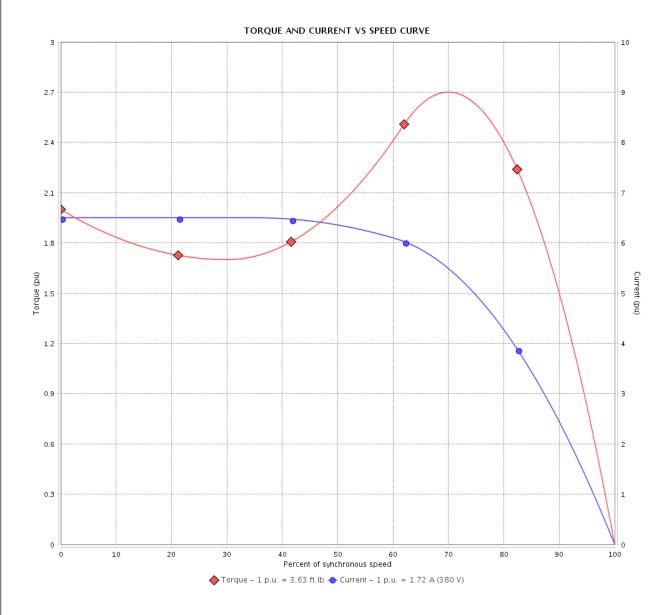


Customer :

Product line : JP Pump NEMA Premium Product code : 12682720

Efficiency Three-Phase

Catalog #: 00118OT3E143JP-S



Performance : 190/380 V 50 Hz 4P Rated current : 3.44/1.72 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.63 ft.lb : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K : B Rated speed : 1445 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



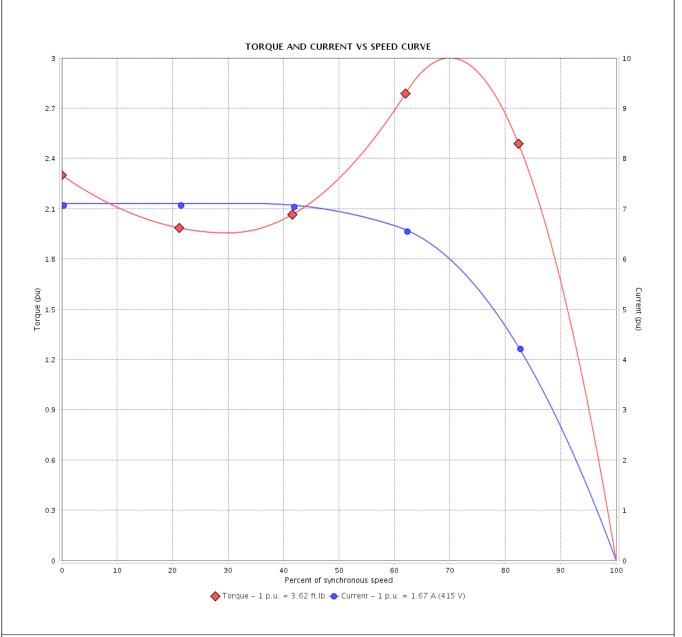
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682720

Catalog #: 00118OT3E143JP-S



Performance : 220/415 V 50 Hz 4P Rated current : 3.15/1.67 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.62 ft.lb Service factor Locked rotor torque : 229 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

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

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



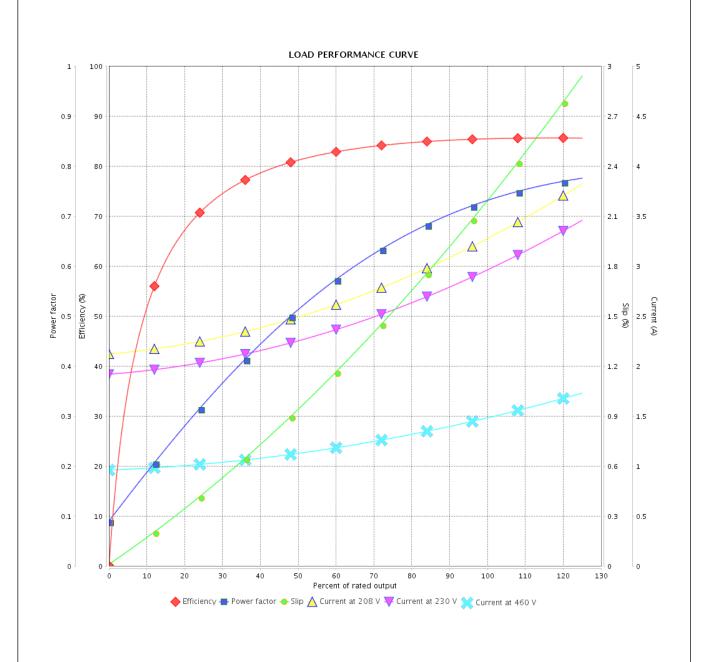
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682720

Catalog #: 00118OT3E143JP-S



Performance	::	230/460 V 60 Hz 4P				
Rated current	:	3.02/1.51 A	Moment o	f inertia (J)	: 0.1101 sq.ft.lb	
LRC	:	8.0	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	::	2.98 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	290 %	Service fa	ctor	:	
Breakdown torque		360 %	Temperature rise		: 80 K	
Rated speed	:	1760 rpm	Design		: B	
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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



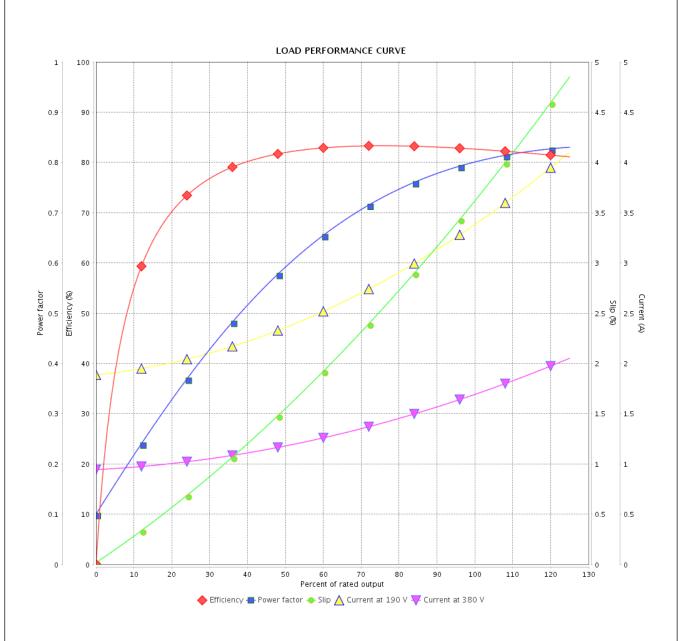
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682720

Catalog #: 00118OT3E143JP-S



Performance	: 190/380 V 50 Hz 4P				
Rated current LRC	: 3.44/1.72 A : 6.5	Moment o	f inertia (J)	: 0.1101 sq.ft. : Cont.(S1)	lb
Rated torque	: 3.63 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 200 % : 270 %	Service factor Temperature rise		: 1.15 : 80 K	
Rated speed	: 1445 rpm	Design		: B	
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# LOAD PERFORMANCE CURVE

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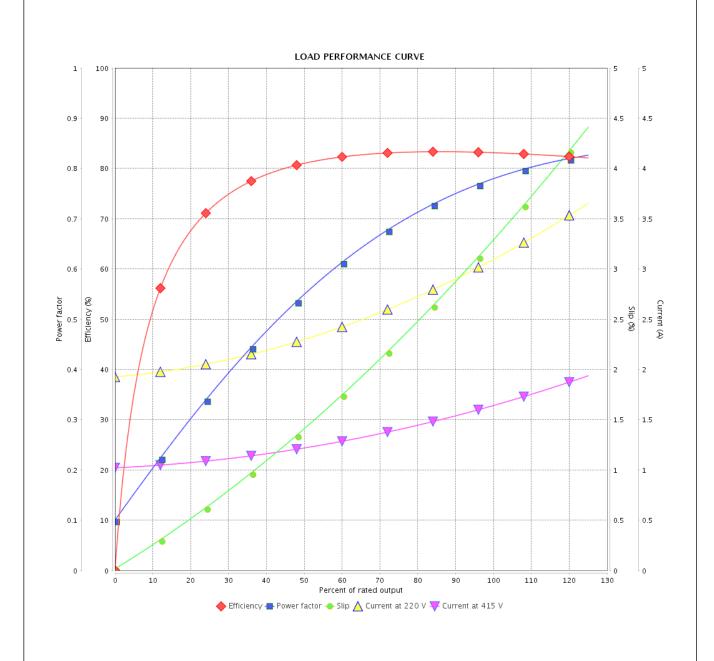
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682720

Catalog #: 00118OT3E143JP-S



Performance	: 2	20/415 V 50 Hz 4P				
Rated current	tated current : 3.15/1.67 A		Moment o	Moment of inertia (J)		lb
LRC	: 7	<b>'.1</b>	Duty cycle	)	: Cont.(S1)	
Rated torque	: 3	.62 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	29 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 3	00 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	450 rpm	Design		: B	
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# Three Phase Induction Motor - Squirrel Cage

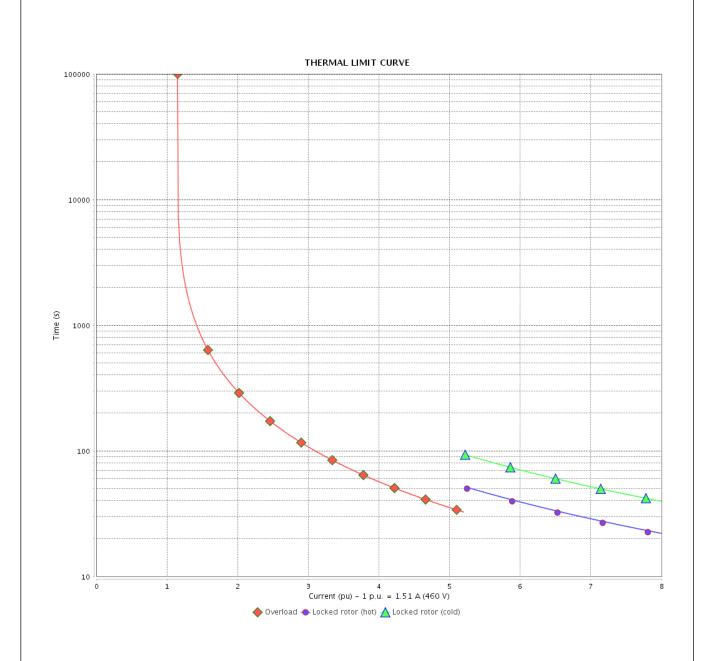


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	12682720	
		,		Catalog # :	00118OT3E	I43JP-S
Performance		230/460 V 60 Hz 4P				
Rated current LRC		3.02/1.51 A 8.0	Moment of Duty cycle	of inertia (J)	: 0.1101 sq.ft.l : Cont.(S1)	b
Rated torque	:	2.98 ft.lb	Insulation	class	: F	
Locked rotor torg		290 %	Service fa		:	
Breakdown torqu Rated speed		360 % 1760 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant			<u> </u>			
Cooling constant						
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# Three Phase Induction Motor - Squirrel Cage



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# Three Phase Induction Motor - Squirrel Cage

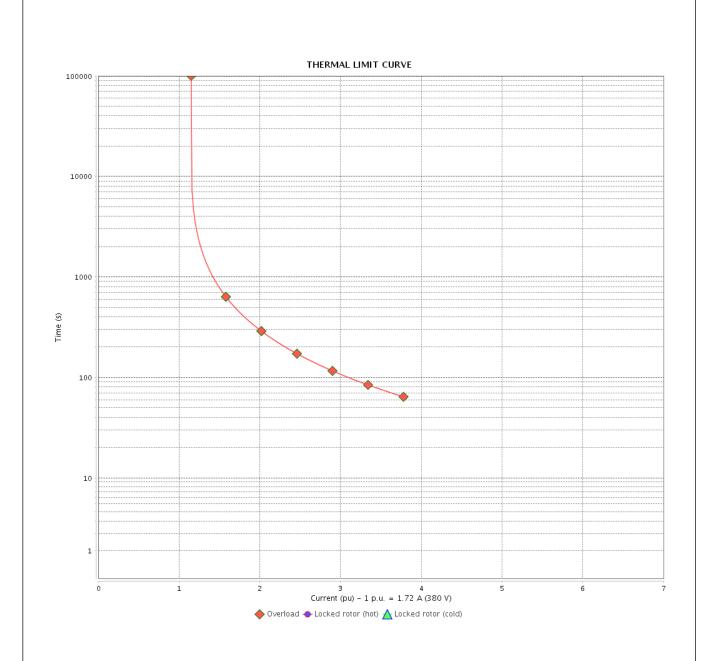


Customer	:					
Product line	: JP Pu Efficien	mp NEMA Premium cy Three-Phase		Product code :	12682720 00118OT3E	143JP-S
Performance	: 190/38	0 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.44/1. : 6.5 : 3.63 ft. : 200 % : 270 % : 1445 rp	b	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1101 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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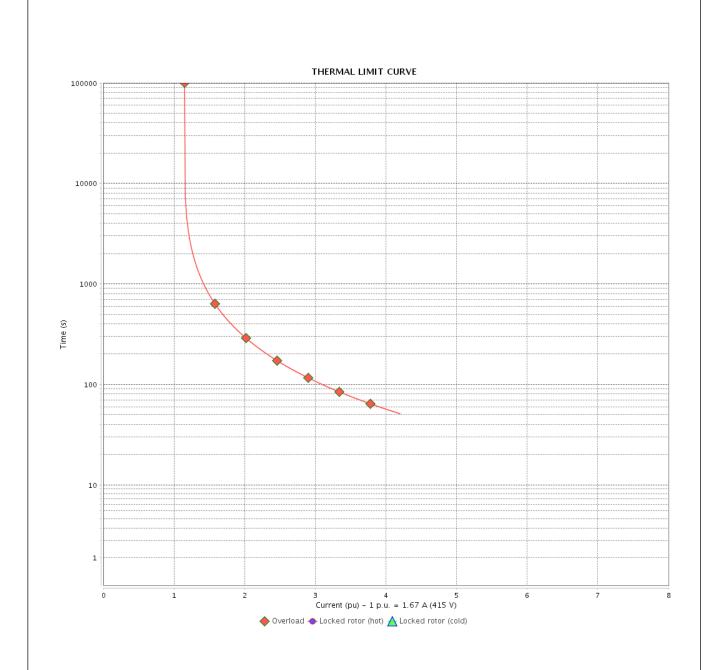


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase	Product code :		12682720	
		Emoichey Three-i Hase		Catalog # :	00118OT3E1	43JP-S
Performance	:	: 220/415 V 50 Hz 4P				
Rated current		: 3.15/1.67 A	Moment o	of inertia (J)	: 0.1101 sq.ft.ll	b
LRC Rated torque		: 7.1 : 3.62 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 229 %	Service fa	ictor	: 1.15	
Breakdown torqu Rated speed		: 300 % : 1450 rpm	Temperati Design	ure rise	: 80 K : B	
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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



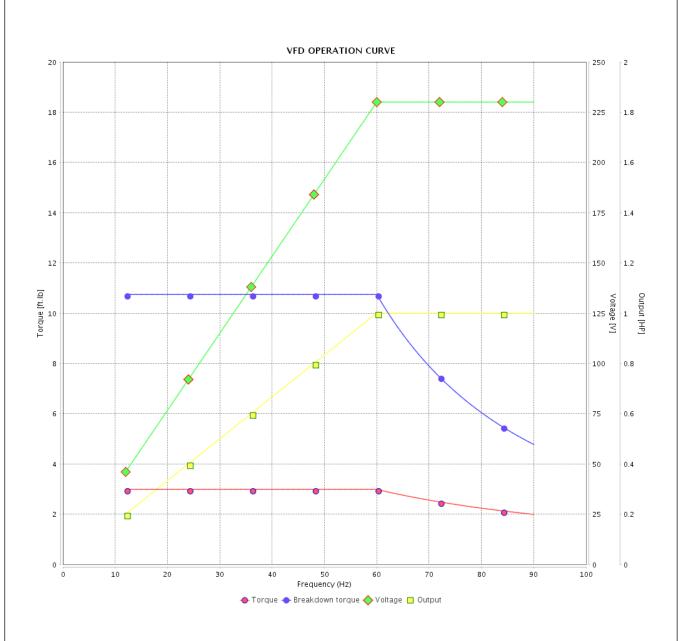
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682720

Catalog #: 00118OT3E143JP-S



Performance : 230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.02/1.51 A : 8.0 : 2.98 ft.lb : 290 % : 360 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1101 sq.ft.lb : Cont.(S1) : F : : 80 K : B	
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# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



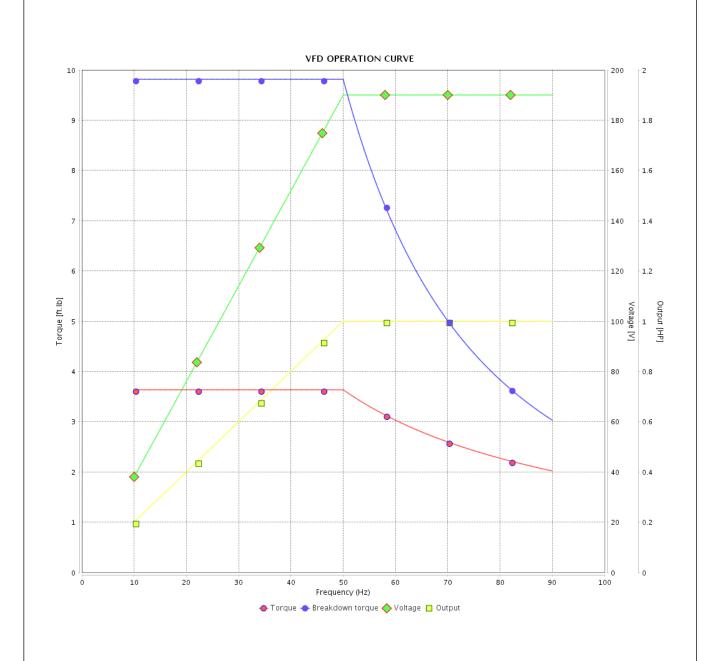
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682720

Catalog #: 00118OT3E143JP-S



Performance	: '	: 190/380 V 50 Hz 4P						
Rated current	::	3.44/1.72 A	Moment of inertia (J)		: 0.1101 sq.ft.lb			
LRC	: 6	3.5	Duty cycle		: Cont.(S1)			
Rated torque	: 3	: 3.63 ft.lb Insulatio		class	: F			
Locked rotor torque	e : 2	200 %	Service factor		: 1.15			
Breakdown torque	: 2	: 270 %		Temperature rise				
Rated speed	: '	1445 rpm	Design		: B			
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# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



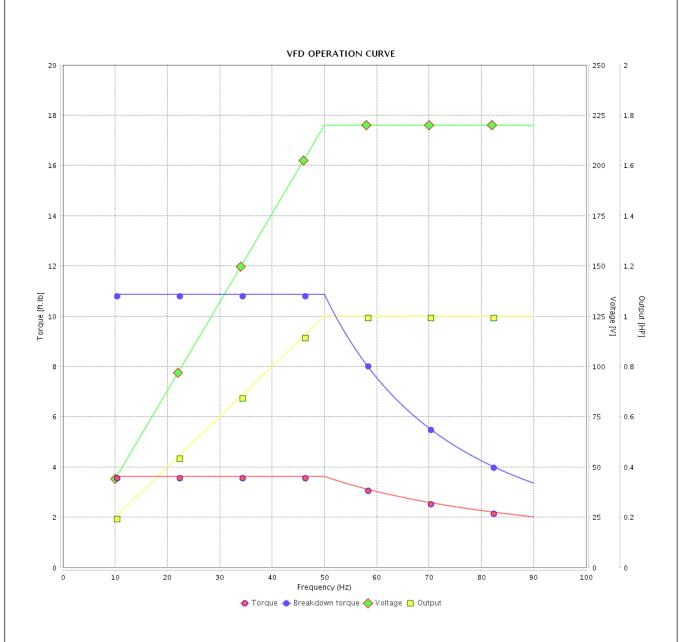
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 12682720

Catalog #: 00118OT3E143JP-S

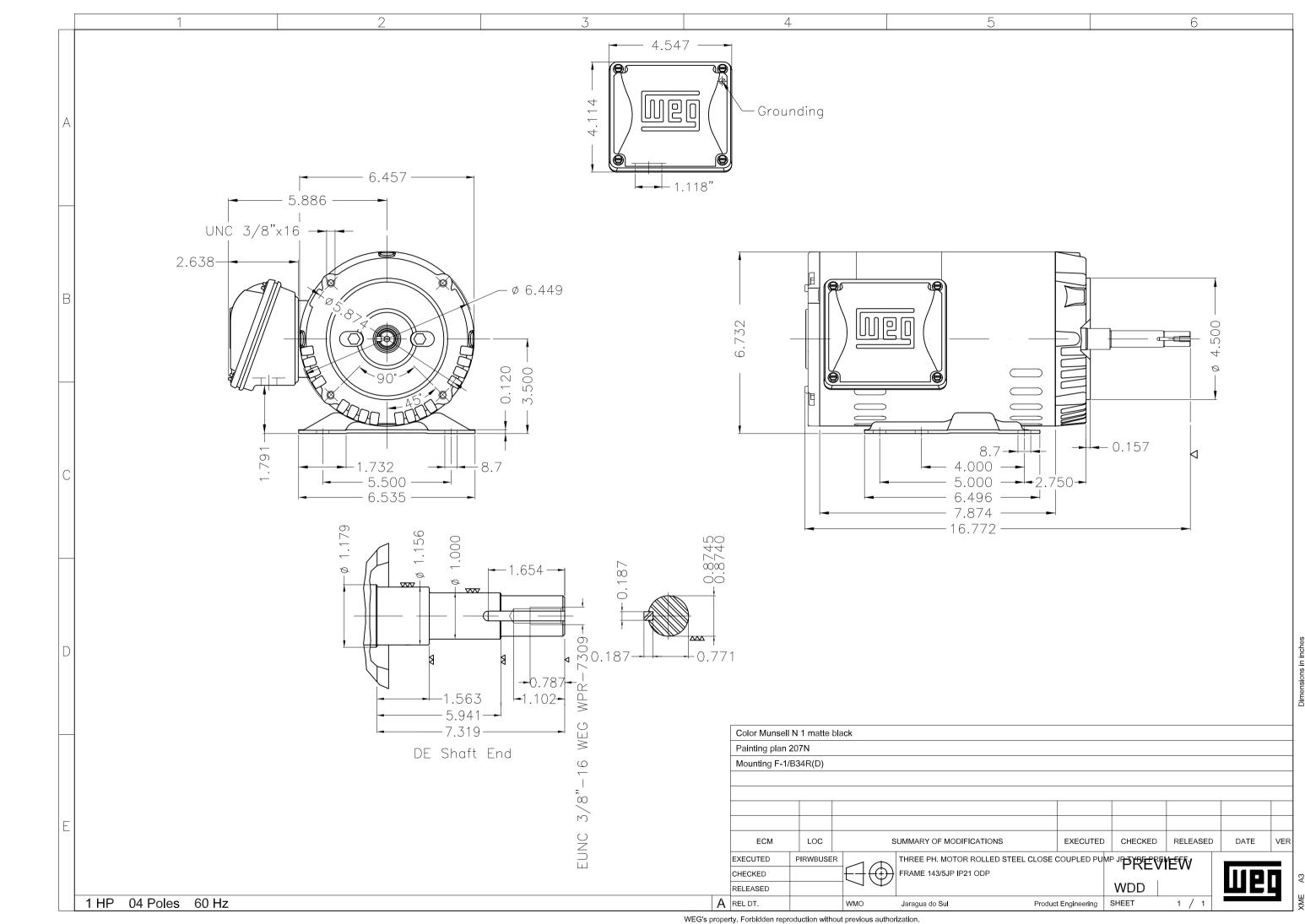


Performance	: 2:	: 220/415 V 50 Hz 4P						
Rated current	: 3.	.15/1.67 A	Moment o	Moment of inertia (J)		.lb		
LRC		.1	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		.62 ft.lb	Insulation	Insulation class		: F		
•		29 %	Service fa	Service factor		: 1.15		
Breakdown torque		00 %	Temperati	Temperature rise		: 80 K		
Rated speed : 1450 rpm		Design		: B				
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MADE IN MÉXICO

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3PT9

Energy Verifi

MODEL 001180T3E143JP-S N01.TODICOXON 12682720

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143/5.IP

CONT

DES 1000 m.a.s.l F AT 80K 2°04 900

NSC

1.15

3.02/1.51 3.47/1.74 230/460 0.75

> HO! CODE SABLE @ 208V 3.34A LTERNATE RATING:

SF1.00 INC. 2

ZPM 3FA 쑮 쌆

85.5%

NOM EFF 1445RPM 50 Hz

3.44-3.15/1.72-1.67A

IEC 60034-1

5:1 CT

SF1.15

190-220/380-415V

8203-ZZ

ODE

8206-ZZ

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2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. **EFF 82.6%** 

MOBIL POLYREX EM 5

T2-WHT

1-BLU

13-ORG I7-PNK F5-BLK

shocks. Disconnect power source before servicing unit. 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