DATA SHEET

Three Phase Induction Motor - Squirrel Cage



49.0 dB(A)

81.2

81.5

83.6

83.5

0.33

0.58

0.71

0.79

Customer Product line : JP Pump NEMA Premium Product code: 14807099 Efficiency Three-Phase Catalog #: 00118ET3E143JP-S Frame : 143/5JP Cooling method : IC411 - TEFC 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 : 1000 m.a.s.l. Approx. weight³ : 41.4 lb Altitude : IP55 Protection degree Moment of inertia (J) : 0.1232 sq.ft.lb Design : B Output [HP] Poles 4 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 2.94/1.47 3.09/1.64 3.40/1.70 L. R. Amperes [A] 25.3/12.6 22.0/11.6 22.1/11.0 LRC [A] 8.6x(Code M) 6.5x(Code J) 7.1x(Code K) No load current [A] 1.78/0.890 1.76/0.879 1.77/0.938 Rated speed [RPM] 1765 1450 1455 Slip [%] 1.94 3.33 3.00 Rated torque [ft.lb] 2.98 3.62 3.61 Locked rotor torque [%] 280 200 220 Breakdown torque [%] 300 270 300 Service factor 1.15 1.15 Temperature rise 80 K 80 K 80 K Locked rotor time 34s (cold) 19s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot)

49.0 dB(A)

82.5

82.2

83.7

82.9

0.36

0.62

0.74

0.81

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

52.0 dB(A)

81.0

82.5

84.0

85.5

0.30

0.52

0.66

0.75

Bearing type : 6206 ZZ 6203 ZZ Max. traction : 73 lb Sealing : V'Ring Without Max. compression : 115 lb

Bearing Seal
Lubrication interval : - Lubricant amount : - -

Lubricant type : Mobil Polyrex EM

Notes

Noise level²

Efficiency (%)

Power Factor

USABLE @208V 3.25A SF 1.00 SFA 3.25A

25%

50%

75%

100%

25%

50%

75%

100%

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) / 11 100 / 10 11 10					
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



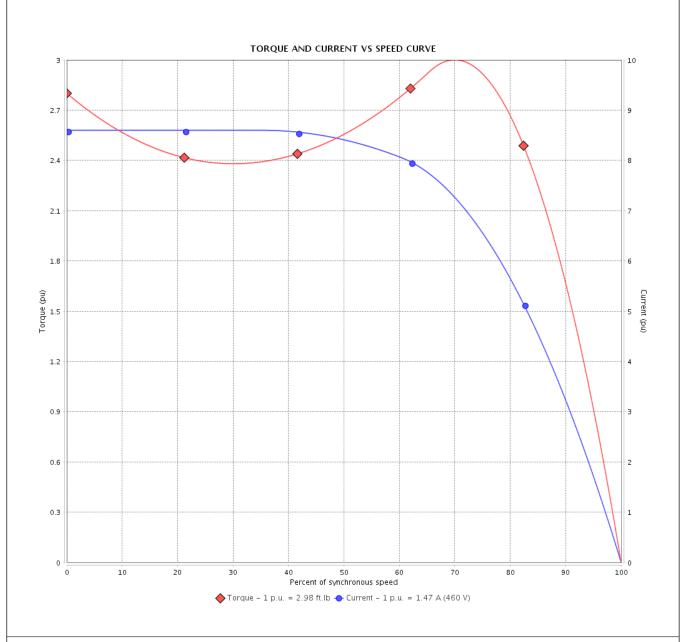
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog #: 00118ET3E143JP-S



Performance : 230/460 V 60 Hz 4P Rated current : 2.94/1.47 A Moment of inertia (J) : 0.1232 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.98 ft.lb Service factor Locked rotor torque : 280 % : 80 K Breakdown torque : 300 % Temperature rise

Locked rotor time : 34s (cold) 19s (hot)

: 1765 rpm

Rated speed

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Design

: B

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



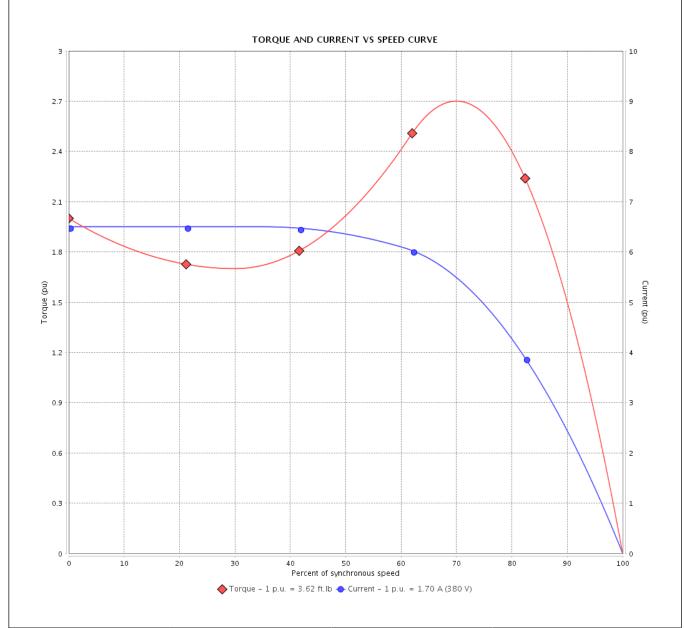
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog #: 00118ET3E143JP-S



Performance : 190/380 V 50 Hz 4P Rated current : 3.40/1.70 A Moment of inertia (J) : 0.1232 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.62 ft.lb : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K : B Rated speed : 1450 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



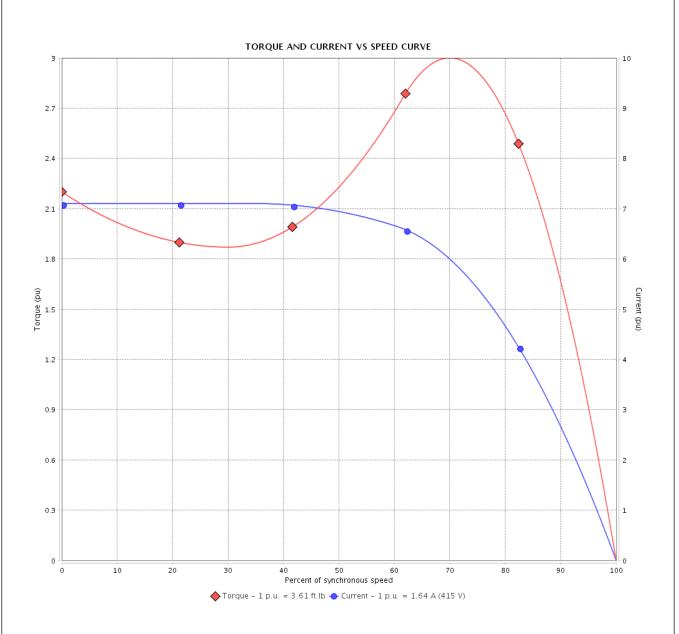
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog #: 00118ET3E143JP-S



Performance	: 220/415 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 3.09/1.64 A : 7.1 : 3.61 ft.lb : 220 % : 300 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.1232 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed	: 1455 rpm	Design	: B	
Locked rotor time	· Os (cold) Os (hot)			

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



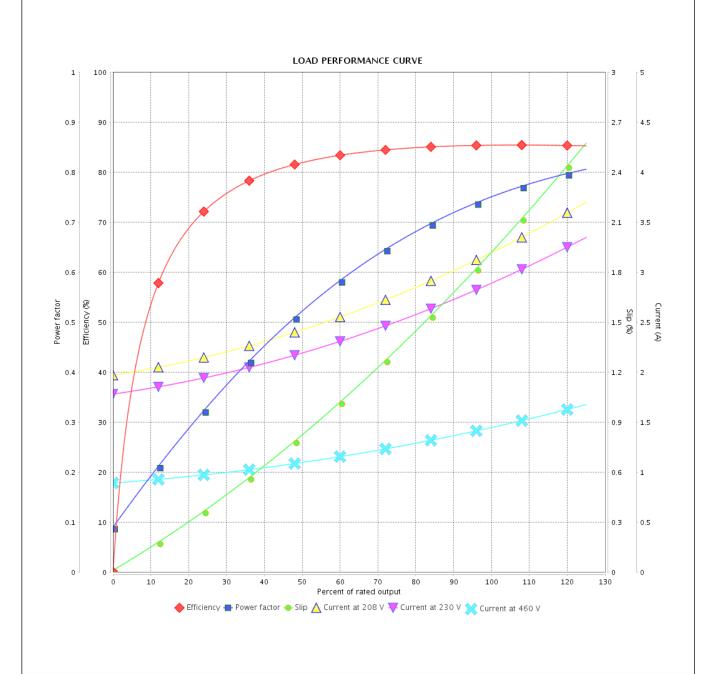
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog #: 00118ET3E143JP-S



Performance	:	230/460 V 60 Hz 4P				
Rated current : 2.94/1.47 A		Moment o	f inertia (J)	: 0.1232 sq.ft.lb		
LRC	:	8.6	Duty cycle)	: Cont.(S1)	
Rated torque	:	2.98 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	280 %	Service fa	ctor	:	
Breakdown torqu	ie :	300 %	Temperati	Temperature rise		
Rated speed	:	1765 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

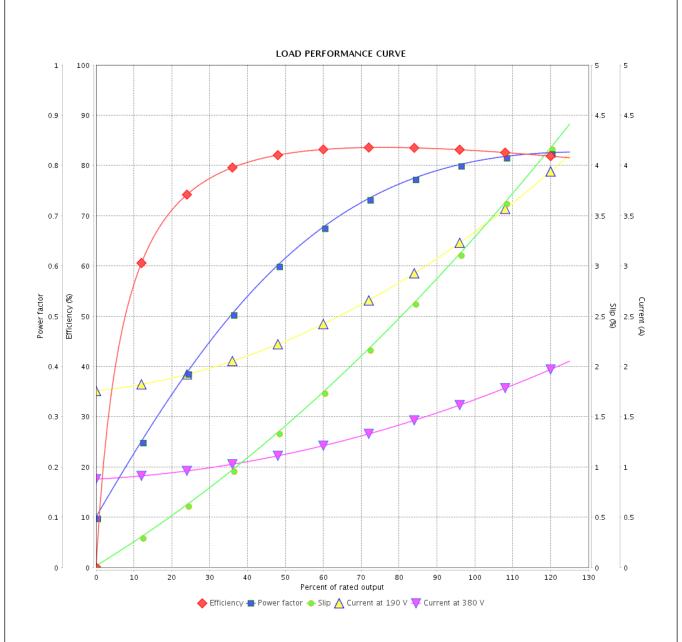
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog #: 00118ET3E143JP-S



Performance : 190/380 V 50 Hz 4P : 3.40/1.70 A Rated current Moment of inertia (J) : 0.1232 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 3.62 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



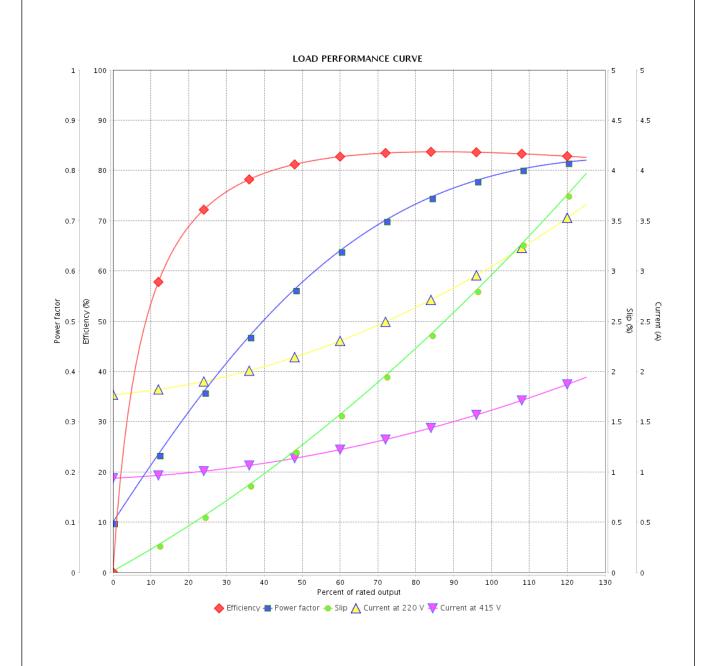
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog # : 00118ET3E143JP-S



Performance : 220/415 V 50 Hz 4P						
Rated current	::	3.09/1.64 A	Moment o	f inertia (J)	: 0.1232 sq.ft	.lb
LRC	: 7	7.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: ;	3.61 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	220 %	Service fa	ctor	: 1.15	
Breakdown torque	::	300 %	Temperati	Temperature rise		
Rated speed	: '	1455 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

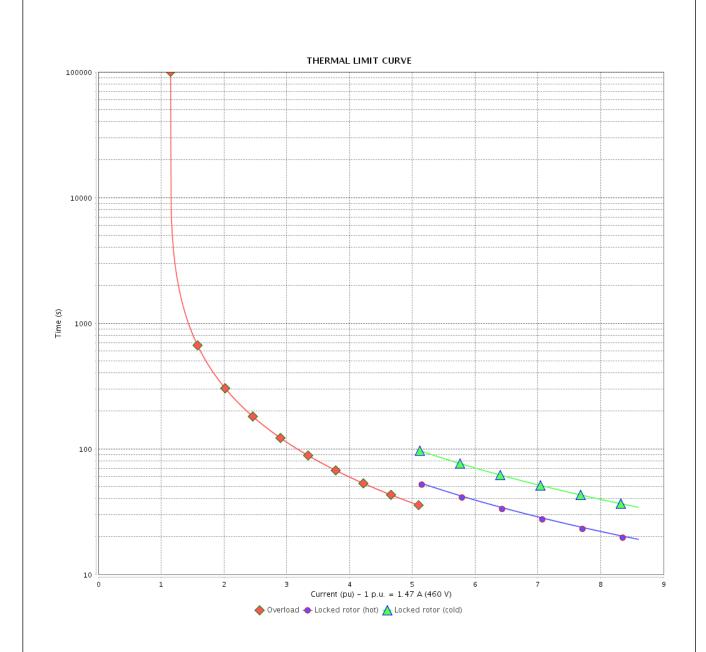


Customer	:				
Product line	: JP Pump NEMA Premium		Product code :	14807099	
	Efficiency Three-Phase		Catalog # :	00118ET3E1	42 ID C
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 2.94/1.47 A	Moment of	f inertia (J)	: 0.1232 sq.ft.l	b
LRC	: 8.6 : 2.98 ft.lb	Duty cycle Insulation	;	: Cont.(S1) : F	
Rated torque Locked rotor torque	: 280 %	Service fa	ctor	:	
Breakdown torque Rated speed	: 300 % : 1765 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 1700 Ipili	Design		. U	
Heating constant Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

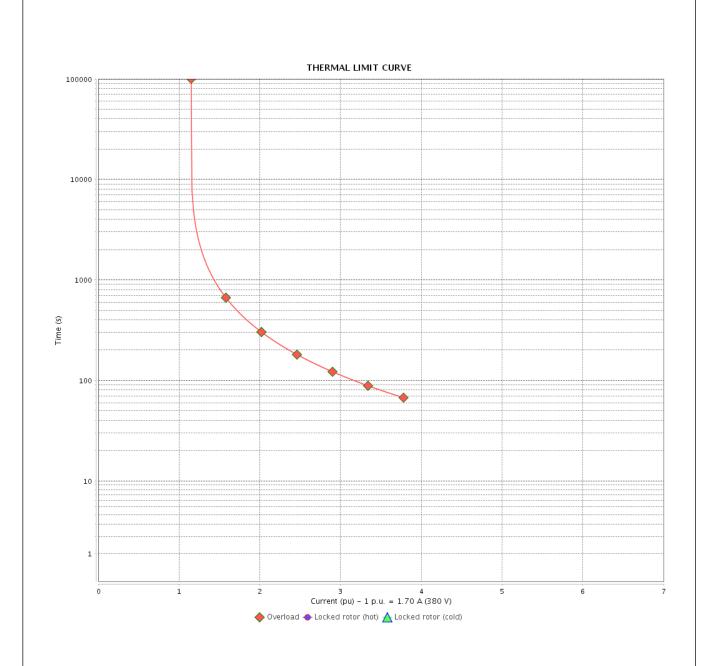


Customer	:					
Product line	: c	JP Pump NEMA Premium fficiency Three-Phase	I	Product code :	14807099	
	L	molency Three-I hase		Catalog # :	00118ET3E	143JP-S
Performance	: 19	90/380 V 50 Hz 4P				
Rated current		40/1.70 A	Moment o	f inertia (J)	: 0.1232 sq.ft	lb
LRC Rated torque	: 6. : 3.	5 62 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torqu		00 % 70 %	Service fa Temperatu		: 1.15 : 80 K	
Breakdown torque Rated speed		450 rpm	Design	11 C 113 C	: B	
Heating constant						
Cooling constant			Т			
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Three Phase Induction Motor - Squirrel Cage



Customer :



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Three Phase Induction Motor - Squirrel Cage

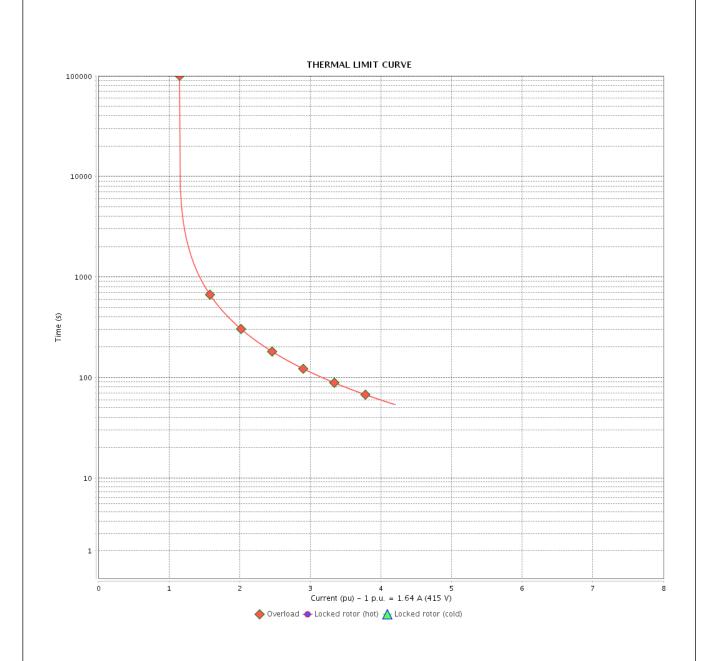


Customer	:				
Product line	: JP Pump NEMA Premium	F	Product code :	14807099	
	Efficiency Three-Phase			00118ET3E1	40 ID 0
			Catalog # :	00118E13E1	43317-3
Performance	: 220/415 V 50 Hz 4P	T.,		0.4000 %	
Rated current LRC	: 3.09/1.64 A : 7.1	Moment of Duty cycle		: 0.1232 sq.ft. : Cont.(S1)	ID
Rated torque	: 3.61 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 220 % : 300 %	Service fac Temperatu		: 1.15 : 80 K	
Rated speed	: 1455 rpm	Design		: B	
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 :

Date

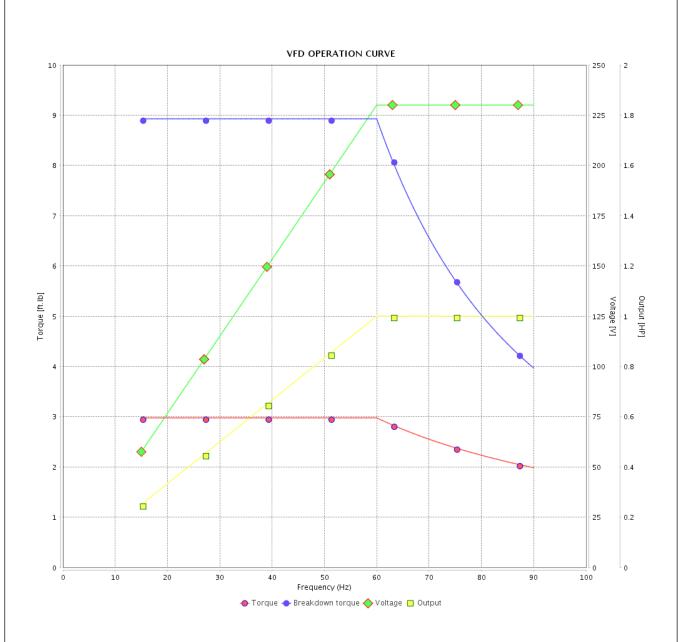
11/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog #: 00118ET3E143JP-S



Performance : 230/460 V 60 Hz 4P : 2.94/1.47 A Rated current Moment of inertia (J) : 0.1232 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.98 ft.lb : F Locked rotor torque : 280 % Service factor Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



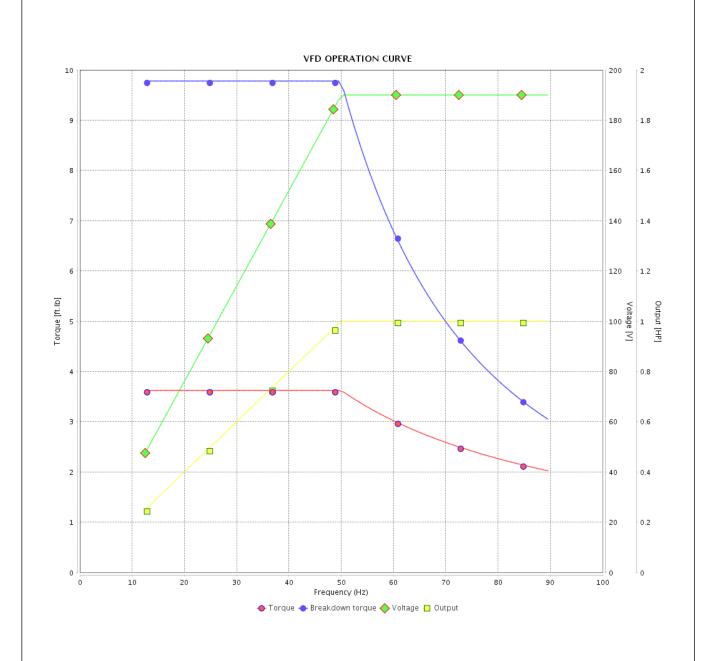
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog #: 00118ET3E143JP-S



	.		,					
Performance	<u>:</u>	: 190/380 V 50 Hz 4P						
Rated current	:	3.40/1.70 A	Moment of	Moment of inertia (J)		: 0.1232 sq.ft.lb		
LRC		6.5	Duty cycle		: Cont.(S1)			
Rated torque	:	3.62 ft.lb	Insulation class		: F			
Locked rotor torque	e ::	200 %	Service factor		: 1.15			
Breakdown torque	:	270 %	Temperature rise		: 80 K			
Rated speed	:	1450 rpm	Design		: B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

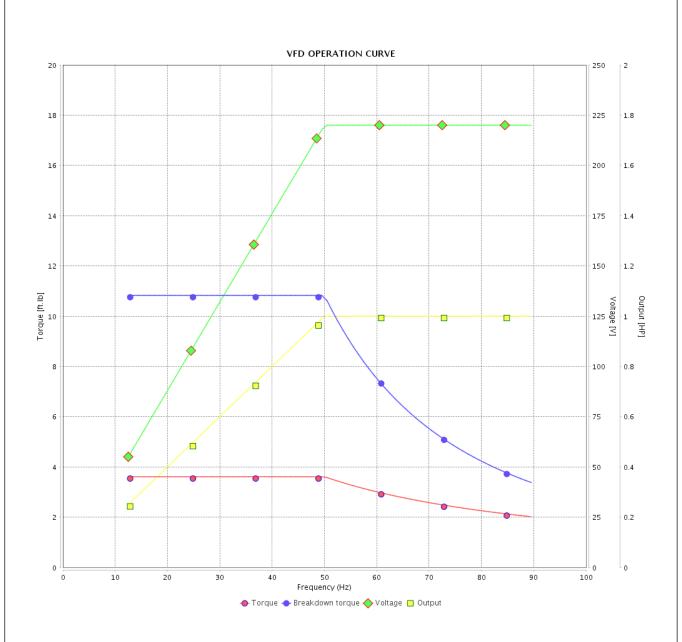
11/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14807099

Catalog #: 00118ET3E143JP-S

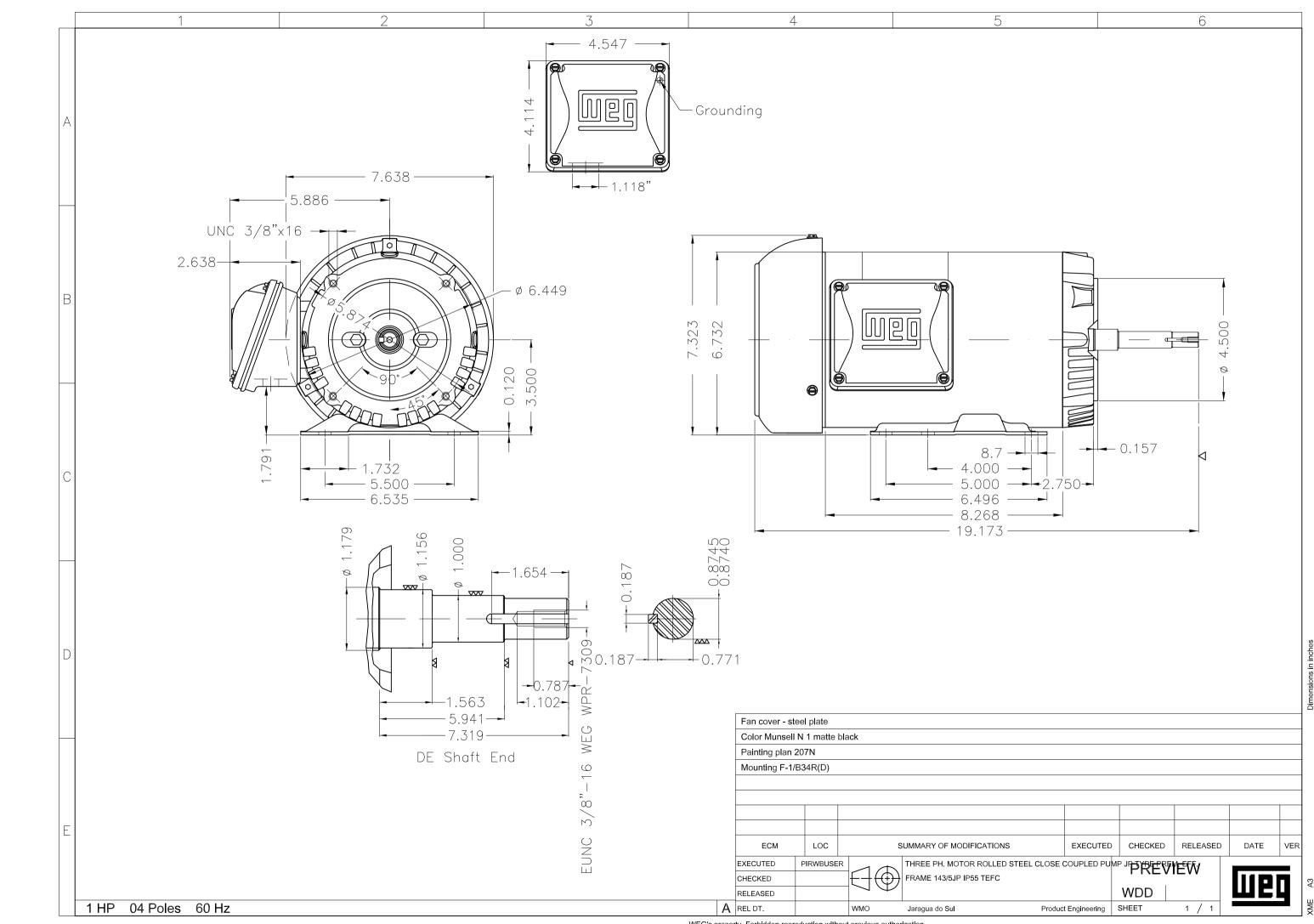


Performance	: 220/415 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.09/1.64 A : 7.1 : 3.61 ft.lb : 220 % : 300 % : 1455 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1232 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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Revision





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FOR SAFE AREA

3PT9

Energy Verifi

N01.TE0IC0X0N 14807099 MADE IN MÉXICO

MODEL 00118ET3E143JP-S 8 B/N 걒 29JAN2021

Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

For 60Hz: Class I, Zone 2,

143/5.IP CONT

P55 SH 1000 m.a.s.l F AT 80K 2°04

NSC

3.38/1.69

1.15

2.94/1.47 230/460

> CODE SABLE @ 208V 3.25A ALTERNATE RATING:

TEFC

1.0HP 3.40-3.06/1.70-1.62A

SF1.00 INC. W

85.5%

NOM EFF

50 Hz

ZPM 3FA 냃 쌆

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT 1450RPM ODE 6203-2Z 9

8206-ZZ

牌

2

MOBIL POLYREX EM **EFF 82.9%**

190-220/380-415V

IEC 60034-1

SF1.15

1-810



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

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

AVERTISSEMENT: Le moteur doit être mis à la terre 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 and national electrical codes to prevent serious electrical