DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 14808490

Efficiency Three-Phase

Catalog #: 00218ET3E145JP-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. Approx. weight³ : 2.2 lb Altitude Protection degree : IP55 Moment of inertia (J) : 0.1296 sq.ft.lb Design : B Output [HP] 2 2 Poles 4 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 5.44/2.72 6.50/3.25 5.89/3.12 L. R. Amperes [A] 44.6/22.3 39.4/20.9 39.0/19.5 6.7x(Code J) LRC [A] 8.2x(Code K) 6.0x(Code H) No load current [A] 2.80/1.40 2.75/1.37 2.87/1.52 Rated speed [RPM] 1745 1415 1425 Slip [%] 3.06 5.67 5.00 Rated torque [ft.lb] 6.02 7.42 7.37 Locked rotor torque [%] 270 210 240 Breakdown torque [%] 300 240 270 Service factor 1.00 1.00 Temperature rise 80 K 105 K 105 K Locked rotor time 27s (cold) 15s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 86.0 87.1 86.0 50% 85.5 85.4 84.9 Efficiency (%) 75% 87.5 84.9 85.2 82.6 100% 86.5 83.6 25% 0.35 0.42 0.38 50% 0.60 0.68 0.64

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

Bearing type : 6206 ZZ 6203 ZZ Max. traction : 172 lb Sealing : V'Ring Without Max. compression : 174 lb

Bearing Seal

0.73

0.80

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

Notes

Power Factor

USABLE @208V 6.02A SF 1.00 SFA 6.02A

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.

0.76

0.83

0.80

0.85

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

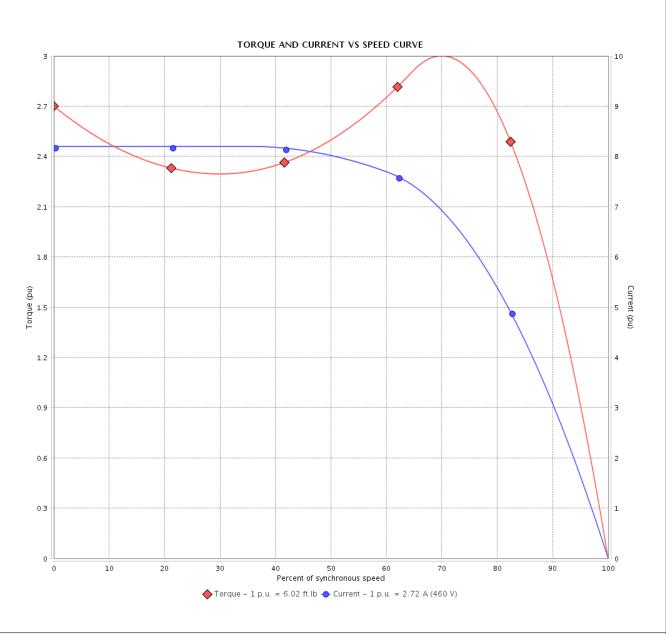


Customer :

Product line : JP Pump NEMA Premium Product code : 14808490

Efficiency Three-Phase

Catalog #: 00218ET3E145JP-S



Performance : 230/460 V 60 Hz 4P Rated current : 5.44/2.72 A Moment of inertia (J) : 0.1296 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 6.02 ft.lb Service factor Locked rotor torque : 270 % : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 1745 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage



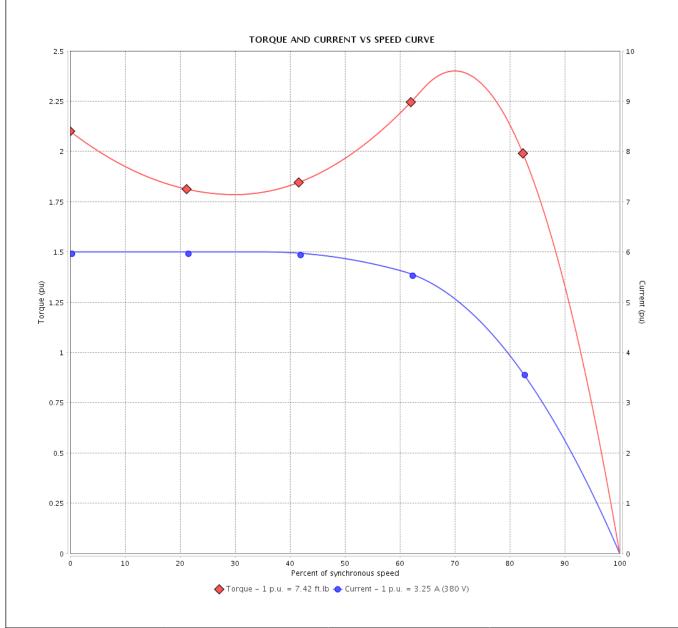
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808490

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Performance : 190/380 V 50 Hz 4P Rated current : 6.50/3.25 A Moment of inertia (J) : 0.1296 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 7.42 ft.lb Insulation class : F Rated torque : 210 % : 1.00 Locked rotor torque Service factor Breakdown torque : 240 % Temperature rise : 105 K : B Rated speed : 1415 rpm Design

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

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TORQUE AND CURRENT VS SPEED CURVE

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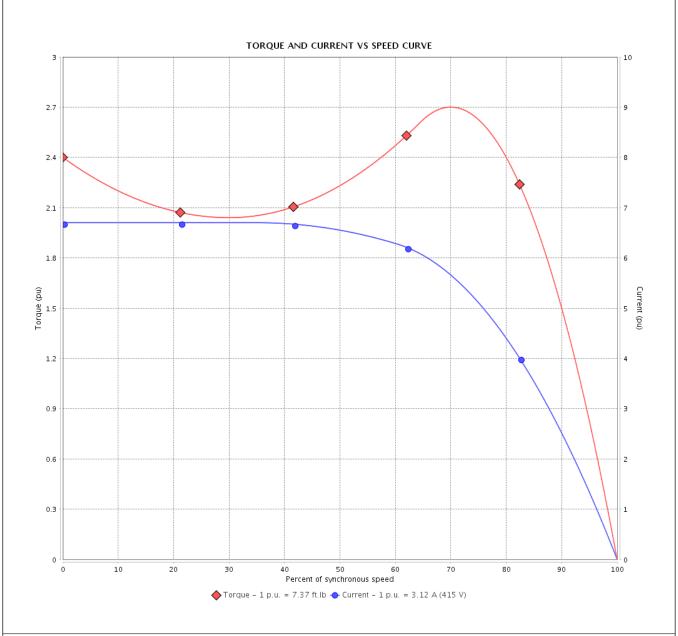
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Performance : 220/415 V 50 Hz 4P Rated current : 5.89/3.12 A Moment of inertia (J) : 0.1296 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 7.37 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 270 % Temperature rise : 105 K Rated speed : 1425 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



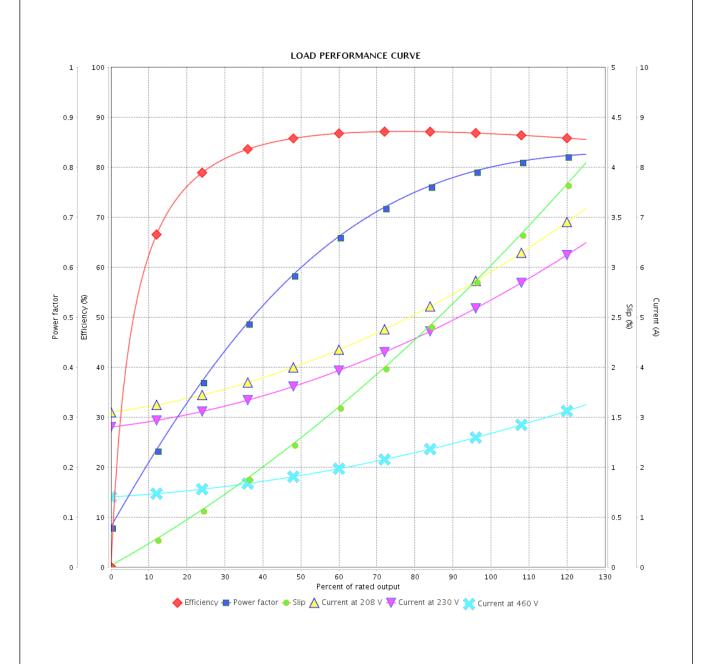
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Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: :	: 5.44/2.72 A Moment of inertia (J)		f inertia (J)	: 0.1296 sq.ft.lb	
LRC	: 8	3.2	Duty cycle		: Cont.(S1)	
Rated torque	: (6.02 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	270 %	Service fa	ctor	:	
Breakdown torque	: ;	300 %	Temperature rise		: 80 K	
Rated speed	: '	1745 rpm	Design		: B	
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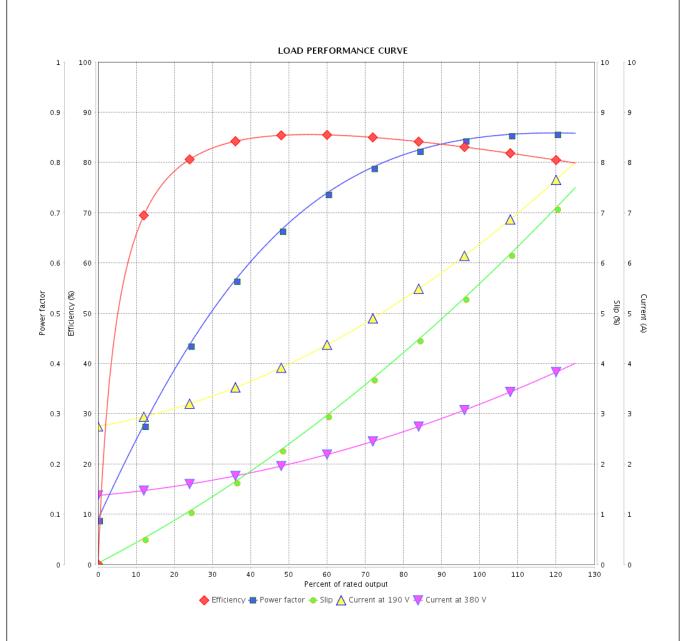
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Performance : 190/380 V 50 Hz 4P Rated current : 6.50/3.25 A Moment of inertia (J) : 0.1296 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 7.42 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1415 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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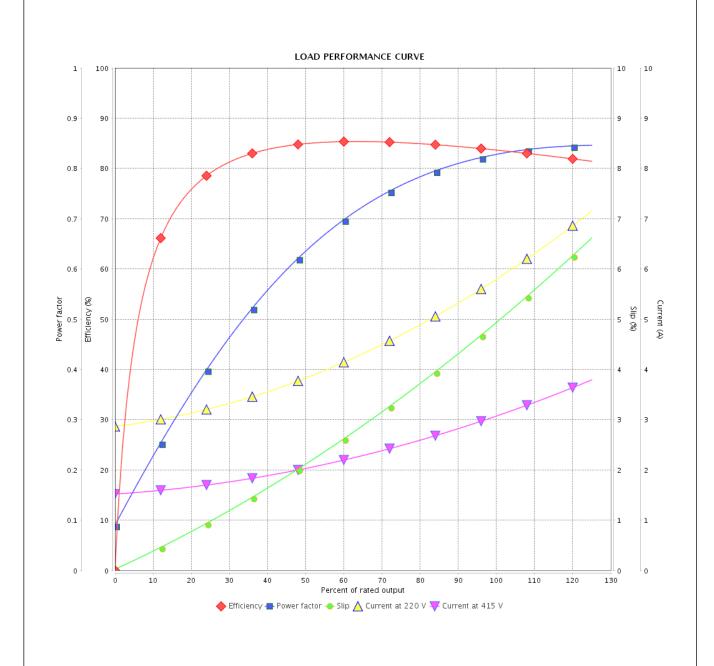
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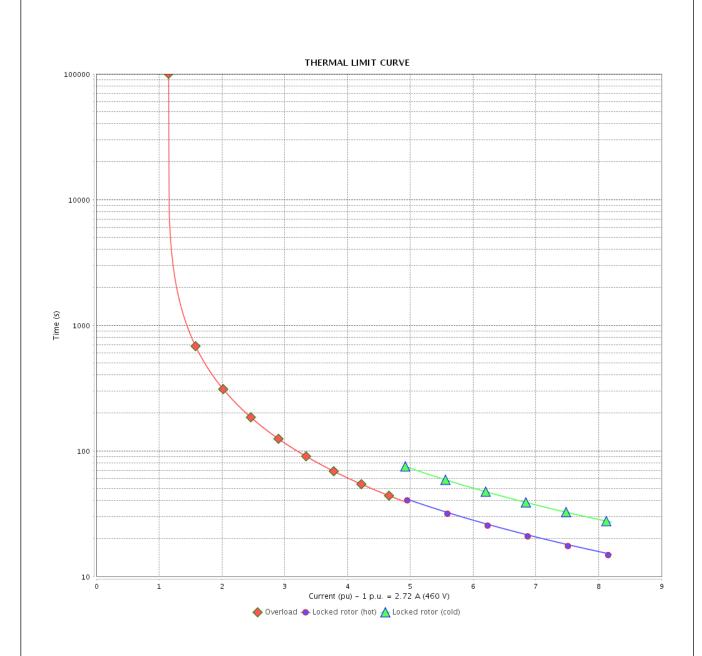


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Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14808490	
				Catalog # :	00218ET3E1	45JP-S
Performance		230/460 V 60 Hz 4P				
Rated current	:	5.44/2.72 A	Moment o	of inertia (J)	: 0.1296 sq.ft.l	b
LRC		8.2	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		6.02 ft.lb 270 %	Insulation Service fa		: F :	
Breakdown torqu	ie :	300 %	Temperat		: 80 K	
Rated speed	•	1745 rpm	Design		: B	
Heating constant						
Cooling constant	t	01 0			OI	
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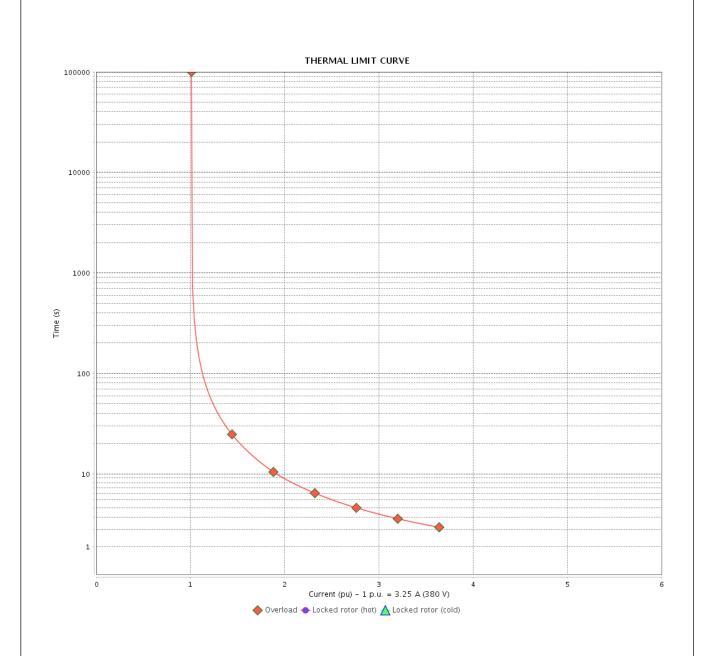


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14808490	
		Linciency Three-i hase		Catalog # :	00218ET3E1	45JP-S
Performance	:	190/380 V 50 Hz 4P				
Rated current	:	6.50/3.25 A	Moment o	of inertia (J)	: 0.1296 sq.ft.l	b
LRC		6.0 7.42 ft.lb	Duty cycle Insulation		: Cont.(S1)	
Rated torque Locked rotor tord		7.42 π.ID 210 %	Service fa		: F : 1.00	
Breakdown torqu	ue :	240 %	Temperat		: 105 K	
Rated speed		1415 rpm	Design		: B	
Heating constan						
Cooling constant	t					
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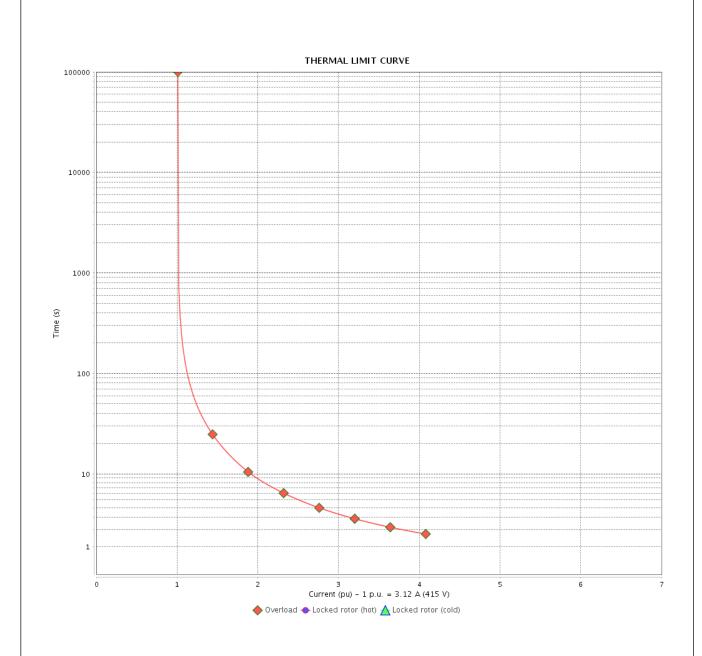


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Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14808490	
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Performance		220/415 V 50 Hz 4P			,	
Rated current		5.89/3.12 A	Moment o	of inertia (J)	: 0.1296 sq.ft.li	h
LRC	:	6.7	Duty cycle	9	: Cont.(S1)	~
Rated torque		7.37 ft.lb 240 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		240 % 270 %	Temperati		: 1.00 : 105 K	
Rated speed		1425 rpm	Design		: B	
Heating constan	t					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

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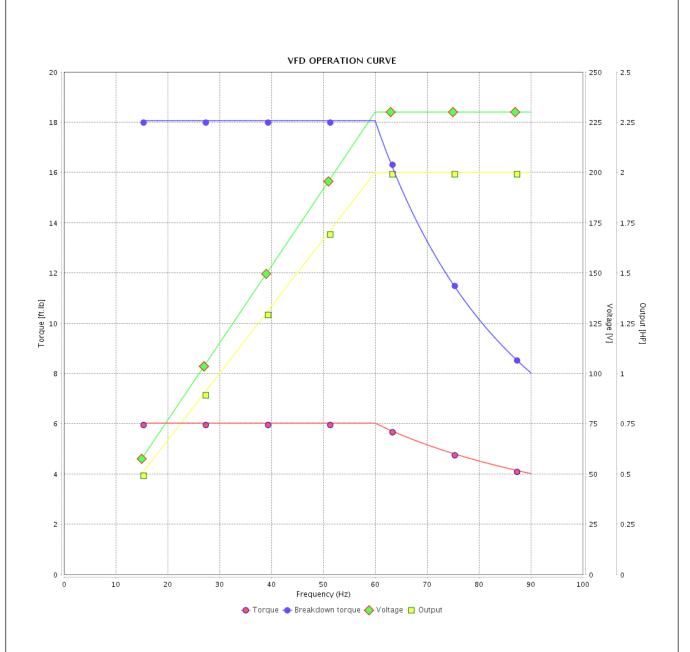
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

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Catalog #: 00218ET3E145JP-S



Performance : 230/460 V 60 Hz 4P Rated current : 5.44/2.72 A Moment of inertia (J) : 0.1296 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 6.02 ft.lb : F Locked rotor torque : 270 % Service factor Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1745 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



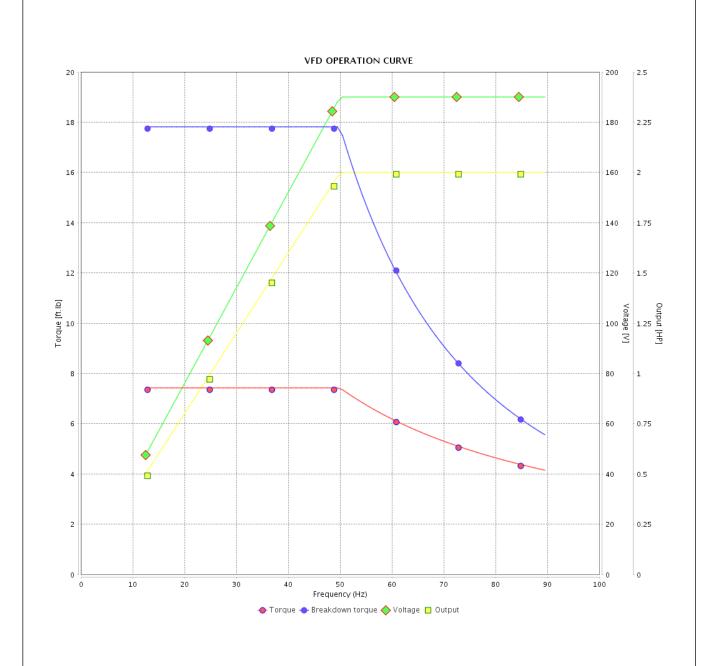
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Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.50/3.25 A : 6.0 : 7.42 ft.lb : 210 % : 240 % : 1415 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 0.1296 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
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VFD OPERATION CURVE

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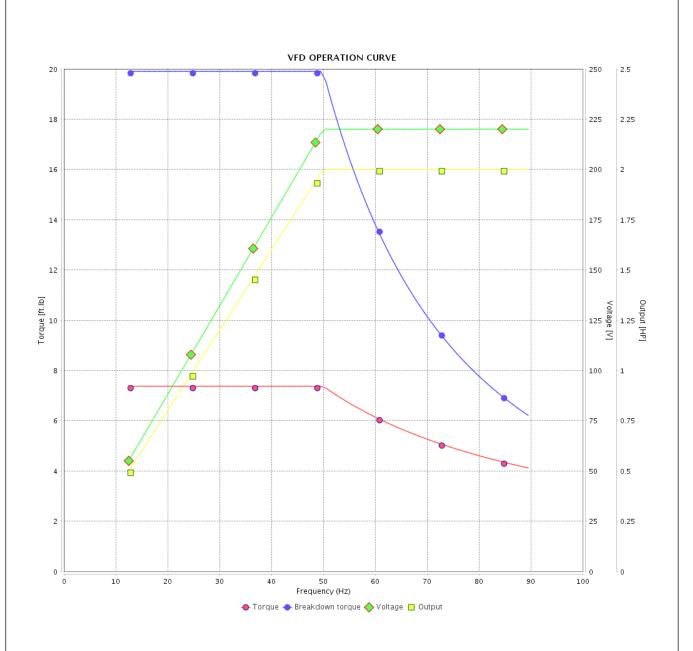
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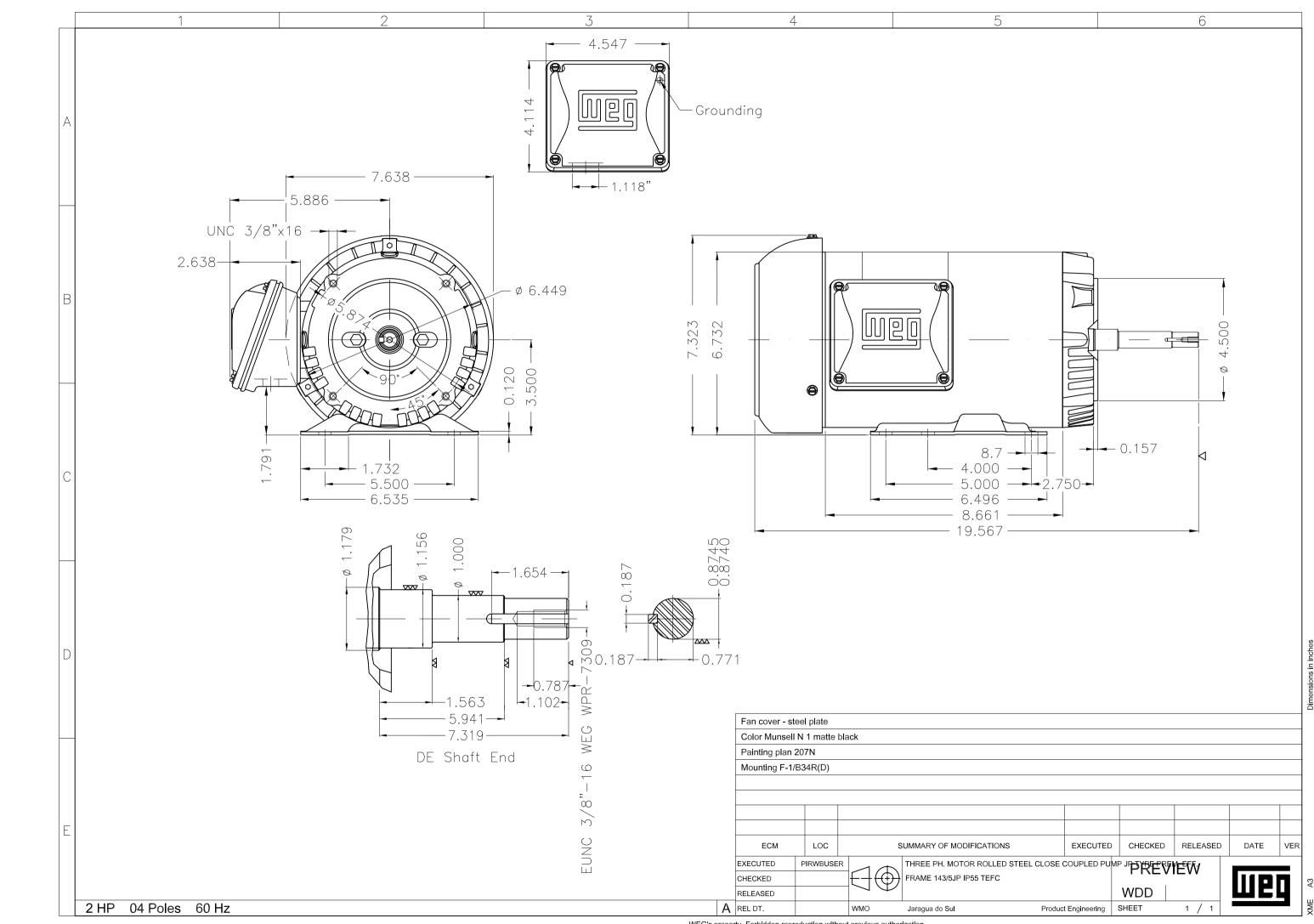
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Performance : 220/415 V 50 Hz 4P Rated current : 5.89/3.12 A Moment of inertia (J) : 0.1296 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.7 : 7.37 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 105 K Rated speed : 1425 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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MADE IN MÉXICO

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FOR SAFE AREA

3PT9

Energy Verifi

N01.TE0IC0X0N 14808490

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

> MODEL 00218ET3E145JP-S 8 ë B 4 34MAR2022

143/5 IP CONT 5.44/2.72 5.26/3.13

P55

1000 m.a.s.l

F AT 80K

NSC

2°04

230/460 1.15

> CODE SH SABLE @ 208V 6.02A TEFC

ZPM 3FA 냃 쌆

> 2.0HP 3.50-5.79/3.25-3.07A ALTERNATE RATING:

SF1.00 NCL W

86.5%

NOM EFF 50 Hz ODE 6203-2Z

1415RPM

190-220/380-415V

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT MOBIL POLYREX EM **EFF 82.6%**

IEC 60034-1

SF1.00

9

2

8206-ZZ

牌

1-810

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



T8-RED F6-GRY

T9-RRK RFD 13-ORG I7-PNK F5-BLK

choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine. conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre