DATA SHEET

Customer

Locked rotor torque [%]

Breakdown torque [%]

Service factor

Noise level²

Temperature rise

Locked rotor time

Efficiency (%)

Power Factor

Three Phase Induction Motor - Squirrel Cage



220

300

1.15

80 K

0s (cold) 0s (hot)

49.0 dB(A)

81.2

81.5

83.6

83.5

0.33

0.58

0.71

0.79

Product line : JM Pump NEMA Premium Product code: 14808667 Efficiency Three-Phase Catalog #: 00118ET3E143JM-SG Frame : 143/5JM Cooling method : IC411 - TEFC 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 : 1000 m.a.s.l. Approx. weight³ : 40.7 lb Altitude : IP55 Moment of inertia (J) Protection degree : 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) 1.77/0.938 No load current [A] 1.78/0.890 1.76/0.879 Rated speed [RPM] 1765 1450 1455 Slip [%] 1.94 3.33 3.00 Rated torque [ft.lb] 2.98 3.62 3.61

200

270

1.15

80 K

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

280

300

80 K

34s (cold) 19s (hot)

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 : 74 lb Sealing : V'Ring Without Max. compression : 114 lb

Bearing Seal

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

Notes

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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



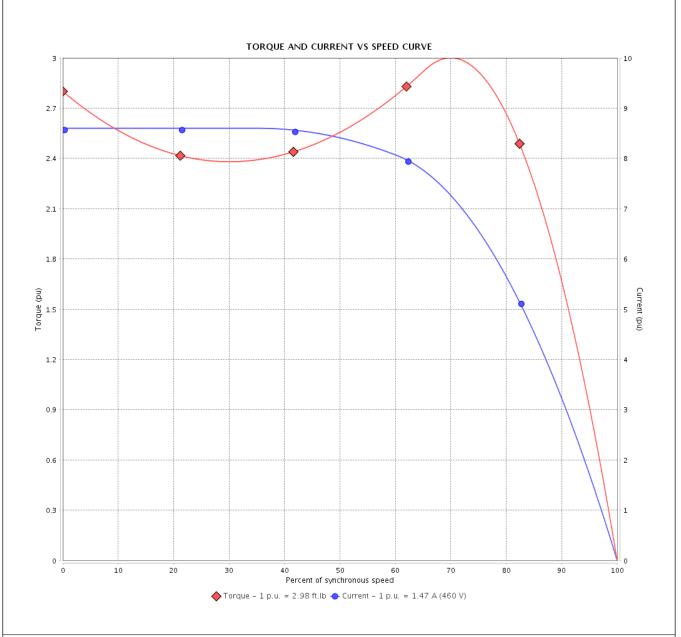
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808667

Catalog #: 00118ET3E143JM-SG



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 Rated speed : 1765 rpm Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



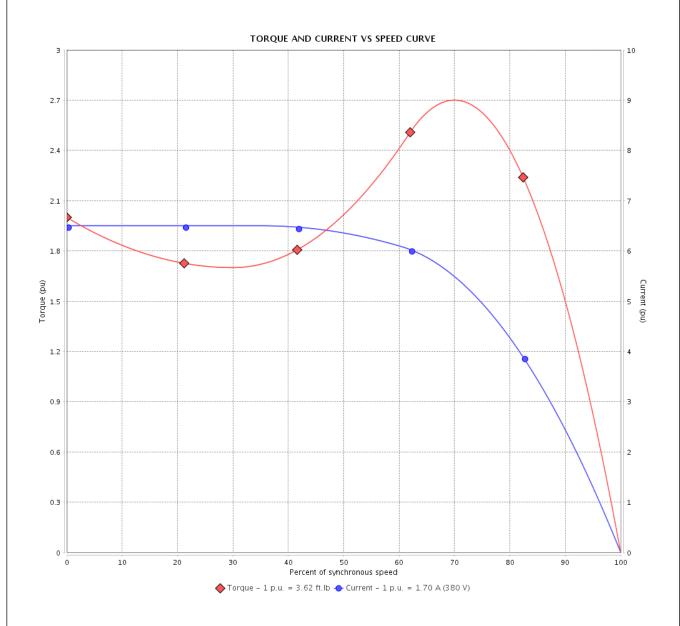
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808667

Catalog #: 00118ET3E143JM-SG



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



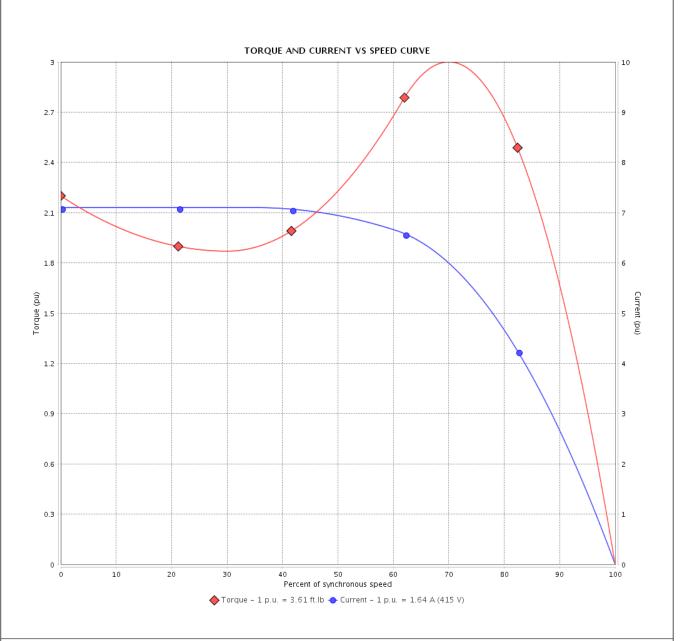
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808667

Catalog #: 00118ET3E143JM-SG



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

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



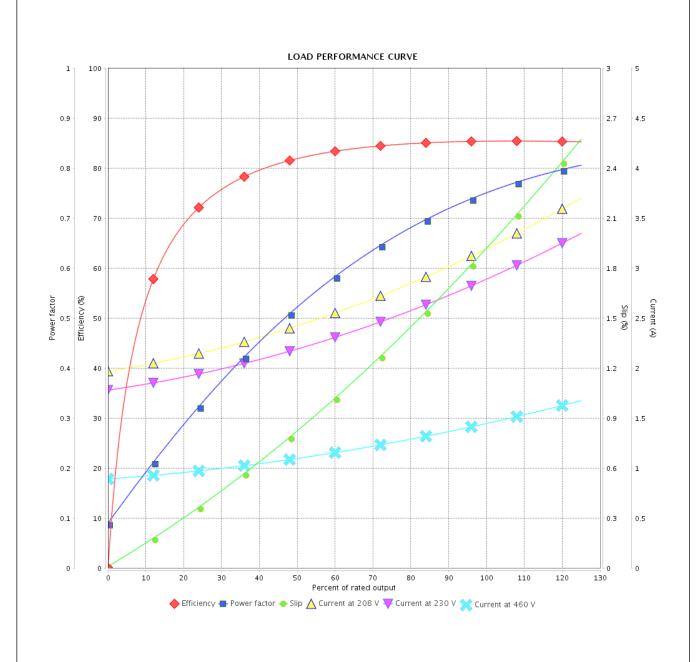
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808667

Catalog #: 00118ET3E143JM-SG



Performance	: 2	30/460 V 60 Hz 4P					
Rated current	ted current : 2.94/1.47 A		Moment o	f inertia (J)	: 0.1232 sq.ft.lb		
LRC	: 8	3.6	Duty cycle	:	: Cont.(S1)		
Rated torque	: 2	2.98 ft.lb	Insulation	class	: F		
Locked rotor torqu	ie : 2	80 %	Service fa	ctor	:		
Breakdown torque	: : 3	800 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 1	765 rpm	Design		: B		
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



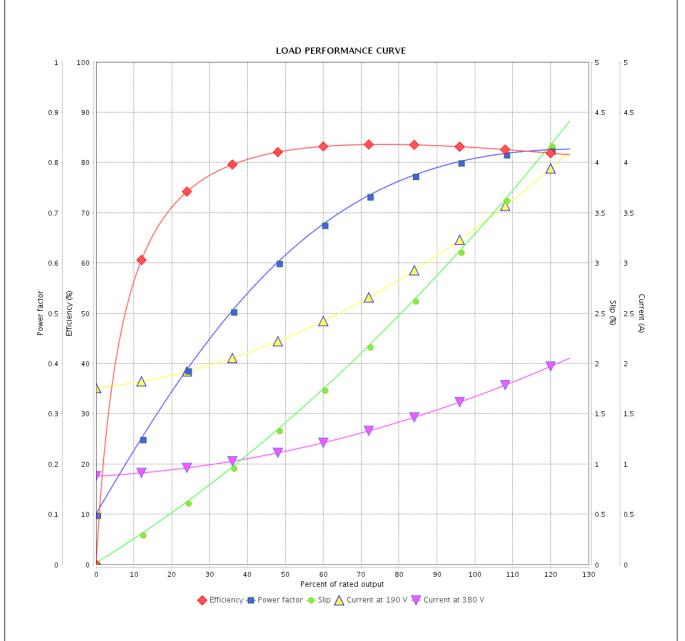
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808667

Catalog #: 00118ET3E143JM-SG



Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.40/1.70 A : 6.5 : 3.62 ft.lb : 200 % : 270 % : 1450 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.1232 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



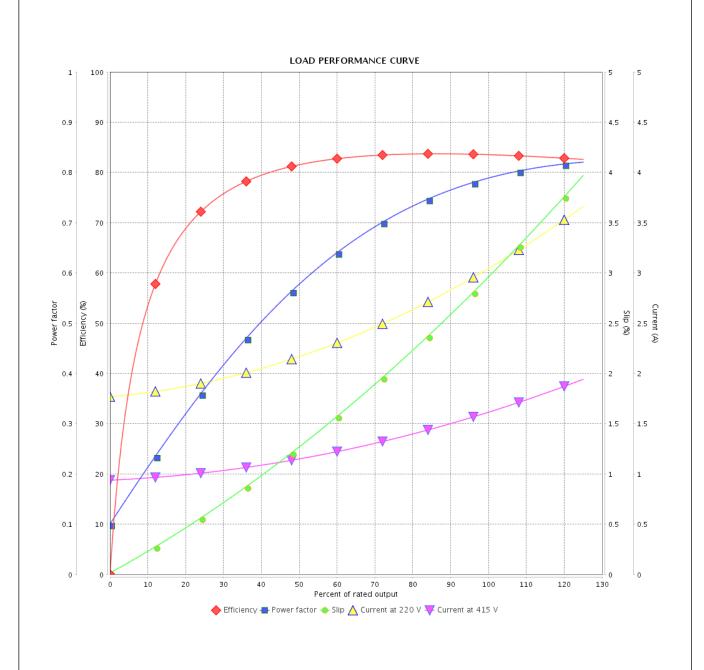
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808667

Catalog #: 00118ET3E143JM-SG



Performance	: 2	220/415 V 50 Hz 4P					
Rated current	: 3	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	3.61 ft.lb	Insulation	class	: F		
Locked rotor torque	e : 2	: 220 % Service factor		ctor	: 1.15		
Breakdown torque	: 3	300 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	1455 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage

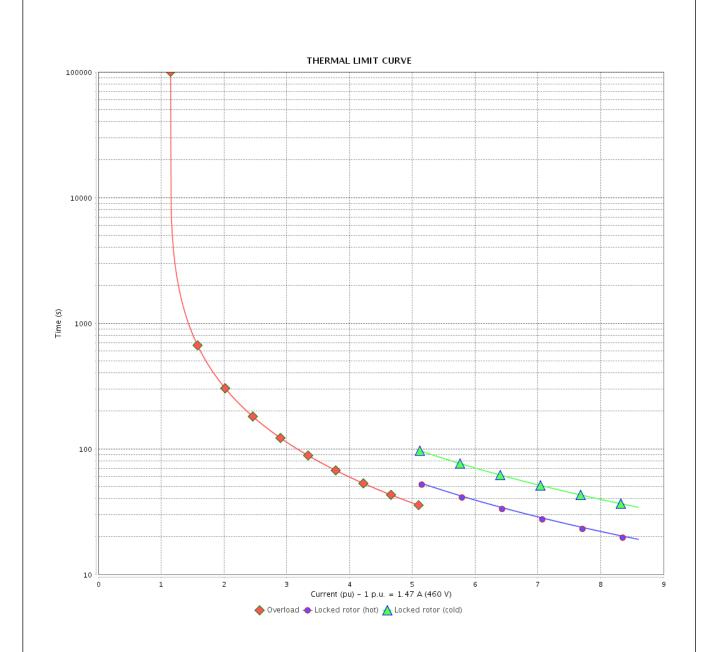


Customer		:				
Decade 14.15		IM Down NEMA Down		Decident of	44000007	
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14808667	
		,		Catalog # :	00118ET3E1	43JM-SG
Performance		230/460 V 60 Hz 4P				
Rated current		2.94/1.47 A	Moment o	of inertia (J)	: 0.1232 sq.ft.	b
LRC Rated torque		8.6 2.98 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	280 %	Service fa	ictor	:	
Breakdown torqu Rated speed		300 % 1765 rpm	Temperati Design	ure rise	: 80 K : B	
		17 00 τριτι	Design		. D	
Heating constant						
Cooling constant	•	Changes Commercial		Dorform	Charles -	Data
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

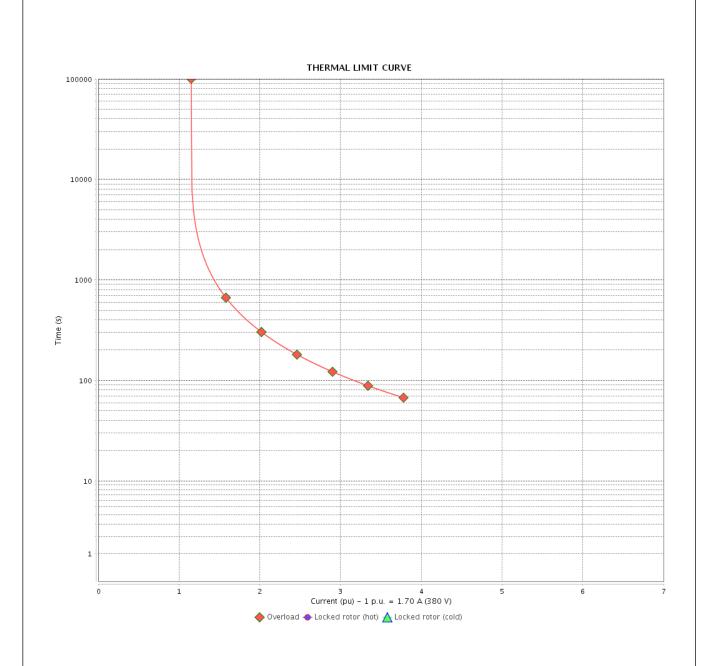


Customer	:					
					,	
Product line	: E	JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14808667	
	_			Catalog # :	00118ET3E1	43JM-SG
Performance		190/380 V 50 Hz 4P				
Rated current LRC		3.40/1.70 A 6.5	Moment of Duty cycle	f inertia (J)	: 0.1232 sq.ft.l : Cont.(S1)	b
Rated torque	: 3	3.62 ft.lb	Insulation	class	: F	
Locked rotor tord		200 %	Service fa		: 1.15	
Breakdown torqu Rated speed		270 % 1450 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan		•				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer :



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Three Phase Induction Motor - Squirrel Cage

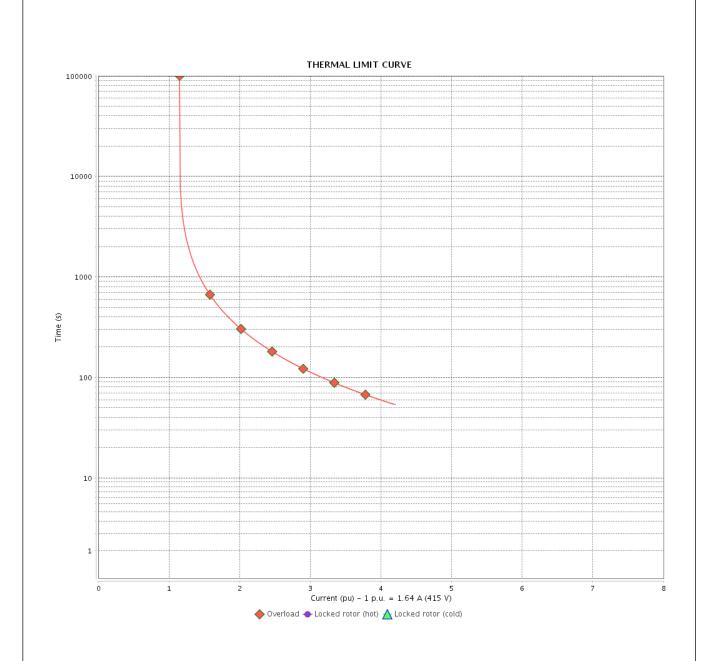


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	14808667	
		Elliciency Three-Friase		Catalog # :	00118ET3E1	43JM-SG
Performance	:	220/415 V 50 Hz 4P				
Rated current	:	3.09/1.64 A	Moment of	of inertia (J)	: 0.1232 sq.ft.l	b
LRC Rated torque		7.1 3.61 ft.lb	Duty cycle Insulation	9	: Cont.(S1) : F	
Rated torque Locked rotor tord		220 %	Service fa		: F : 1.15	
Breakdown torqu	ue :	300 %	Temperat		: 80 K	
Rated speed	:	1455 rpm	Design		: B	
Heating constan						
Cooling constant	t	Ohamas Overs		Dorf	Ohl !	D-4-
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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 :

Checked by

Date

11/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

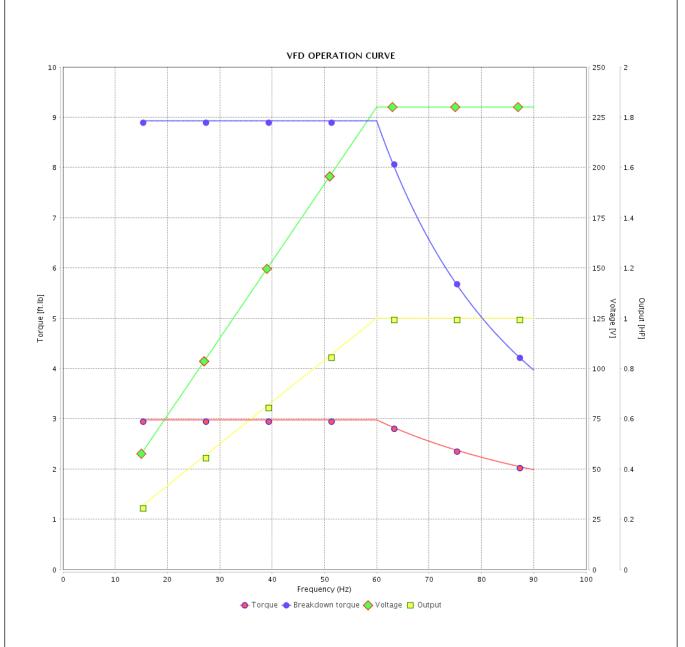
Product code: 14808667

Catalog #: 00118ET3E143JM-SG

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Revision



Performance	: 230/460 V 60 Hz 4P	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1232 sq.ft.lb : Cont.(S1) : F : : 80 K : B		
Rev.	Changes Summary	Performed	Checked	Date		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

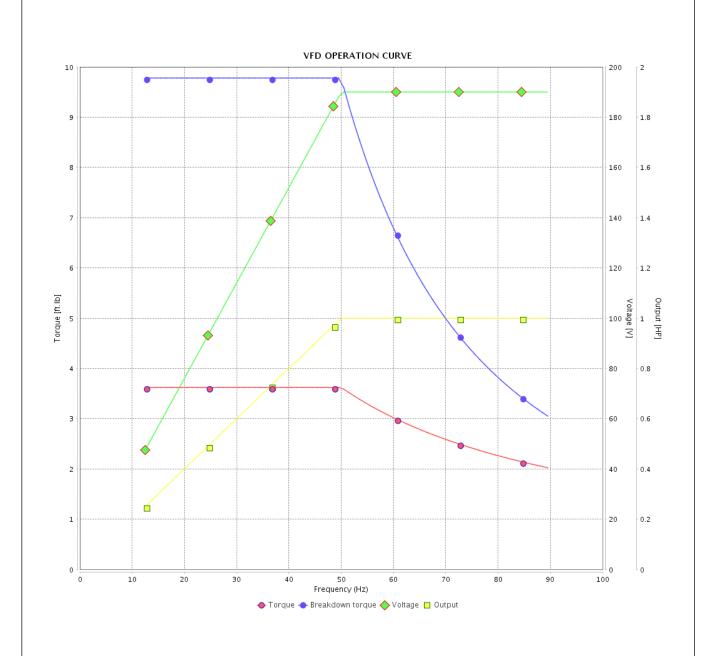
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808667

Catalog #: 00118ET3E143JM-SG

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Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.40/1.70 A : 6.5 : 3.62 ft.lb : 200 % : 270 % : 1450 rpm	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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Performed by					
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



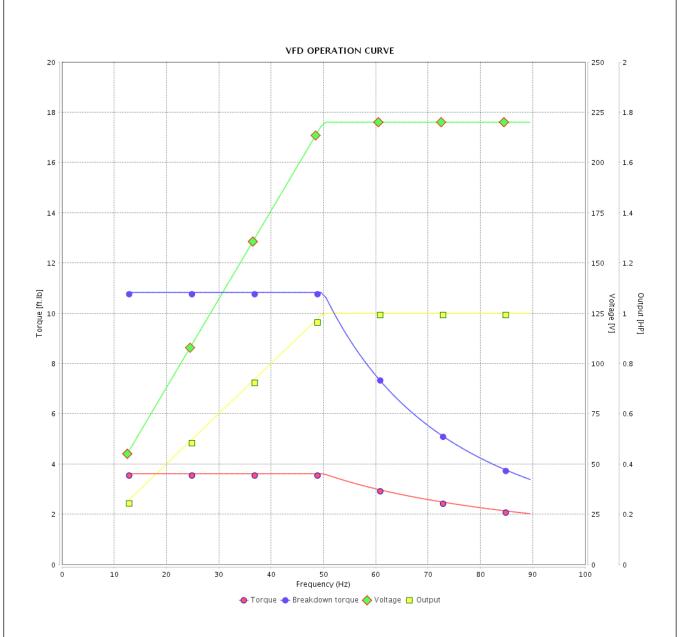
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14808667

Catalog #: 00118ET3E143JM-SG

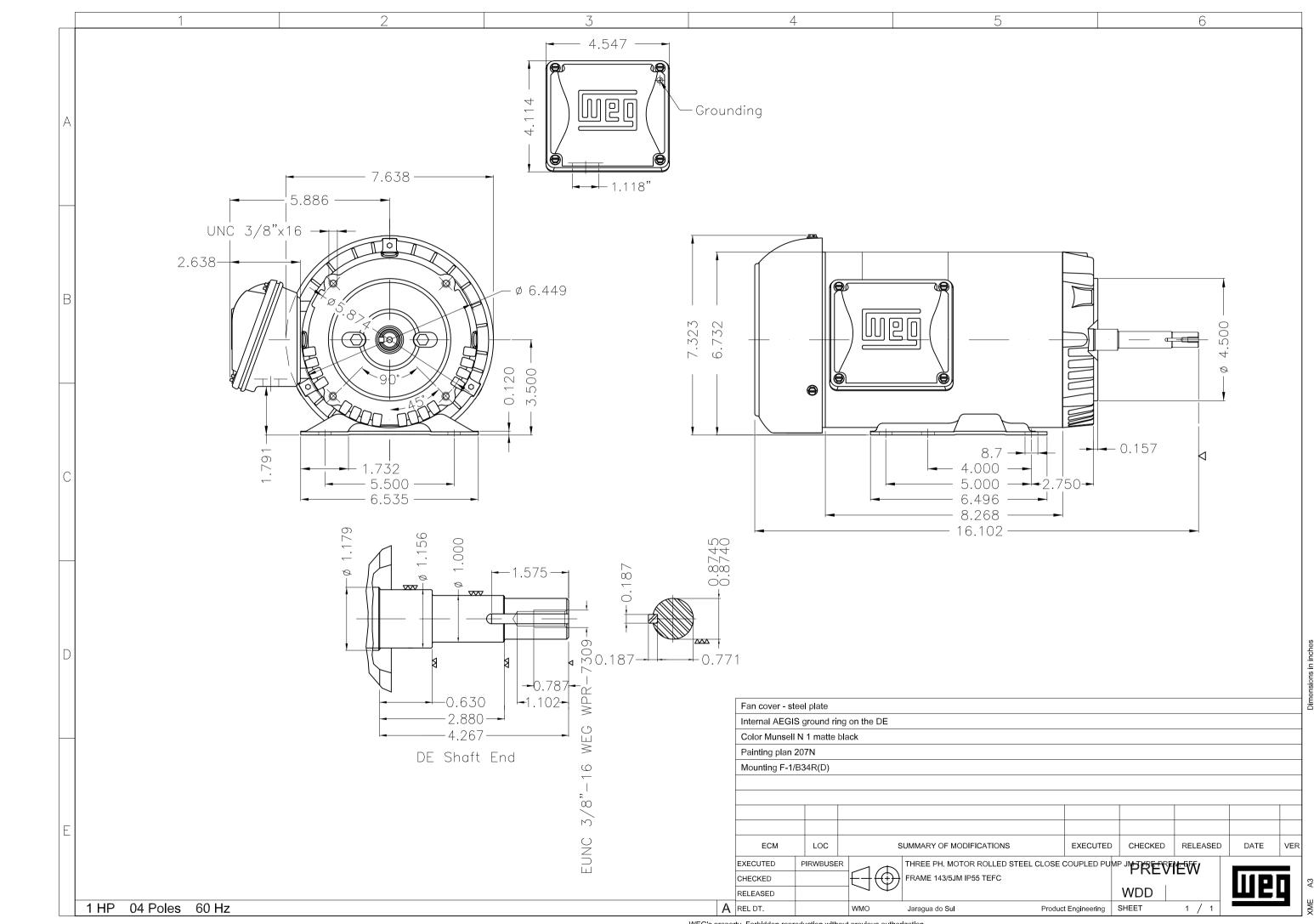


Performance	: 22	: 220/415 V 50 Hz 4P					
Rated current		.09/1.64 A	Moment of inertia (J)		: 0.1232 sq.ft.lb		
LRC	: 7.	.1	Duty cycle		: Cont.(S1)		
Rated torque	: 3.	.61 ft.lb	Insulation class		: F		
Locked rotor tord	que : 22	20 %	Service factor		: 1.15		
Breakdown torqu	ue : 30	00 %	Temperature rise		: 80 K		
Rated speed	: 14	455 rpm	Design		: B		
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11/04/2022

Date





3PT9

CC029A N01.TE0IC0X0N 14808667 MADE IN MÉXICO

9 B/N ¥ 143/5.IM 9FEB2022

MODEL 00118ET3E143JM-SG

230/460

3.38/1.69

P55

1000 m.a.s.l

CONT

F AT 80K

NSC

1.15

2.94/1.47

& Energy Verifi (**UL)**US LISTED

I7-PNK

shocks. Disconnect power source before servicing unit. ind national electrical codes to prevent serious electrical



IEC 60034-1

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 4:1 CT

MOBIL POLYREX EM

8203-ZZ

ODE

8206-ZZ

牌

9

2

5

SF1.15

190-220/380-415V

85.5%

NOM EFF 1450RPM

50 Hz

1.0HP

3.40-3.06/1.70-1.62A

LTERNATE RATING:

ZPM 3FA 냃 쌆

> CODE SH

> TEFC 0

SABLE @ 208V 3.25A

SF1.00 INC.

EFF 82.9%

T2-WHT

T4-YEL

13-ORG 1-BLU

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

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