DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code: 13440285

Efficiency Three-Phase

Catalog #: 00512ET3E215JM-S

Frame : 213/5JM Cooling method : IC411 - TEFC

Insulation class 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 Altitude : 155 lb

Protection degree		: IP55	Moment of inertia (J)	: 1.26 sq.ft.lb
Design		: B		
Output [HP]		5	5	5
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		13.5/6.74	16.3/8.13	14.6/7.74
L. R. Amperes [A]		80.9/40.4	74.8/37.4	75.9/40.2
LRC [A]		6.0x(Code H)	4.6x(Code E)	5.2x(Code F)
No load current [A]	6.84/3.42	6.75/3.38	6.86/3.64
Rated speed [RPI	<i>/</i> I]	1175	960	965
Slip [%]		2.08	4.00	3.50
Rated torque [ft.lb]		22.3	27.4	27.2
Locked rotor torqu	e [%]	220	160	190
Breakdown torque	[%]	250	190	210
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		54s (cold) 30s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	86.4	89.4	88.7
Efficiency (%)	50%	87.5	87.8	87.6
Elliciency (70)	75%	88.5	87.4	87.8
	100%	89.5	85.4	86.3
	25%	0.35	0.41	0.37
Power Factor	50%	0.59	0.66	0.62
I OWEI FACIOI	75%	0.71	0.77	0.74
	100%	0.77	0.81	0.80

Drive end Non drive end Foundation loads

Bearing type 6209 ZZ 6206 ZZ Max. traction : 245 lb Sealing V'Ring Without Max. compression : 399 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 14.9A SF 1.00 SFA 14.9A

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



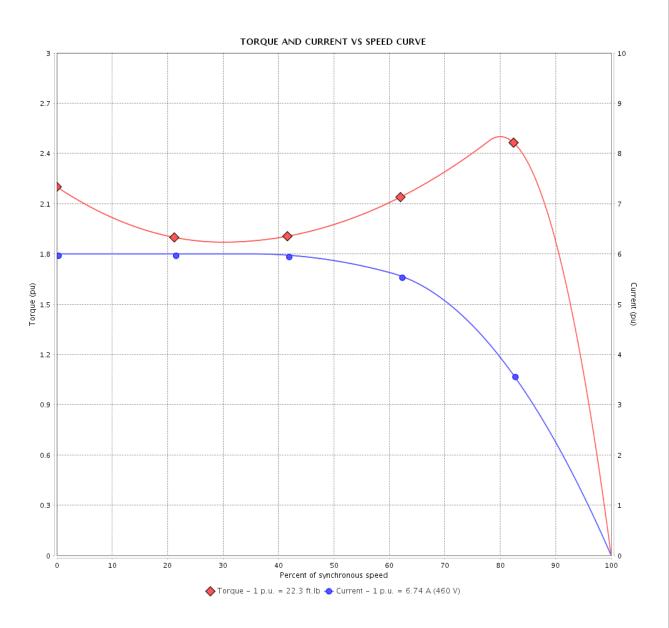
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13440285

Catalog #: 00512ET3E215JM-S



Performance : 230/460 V 60 Hz 6P Rated current : 13.5/6.74 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

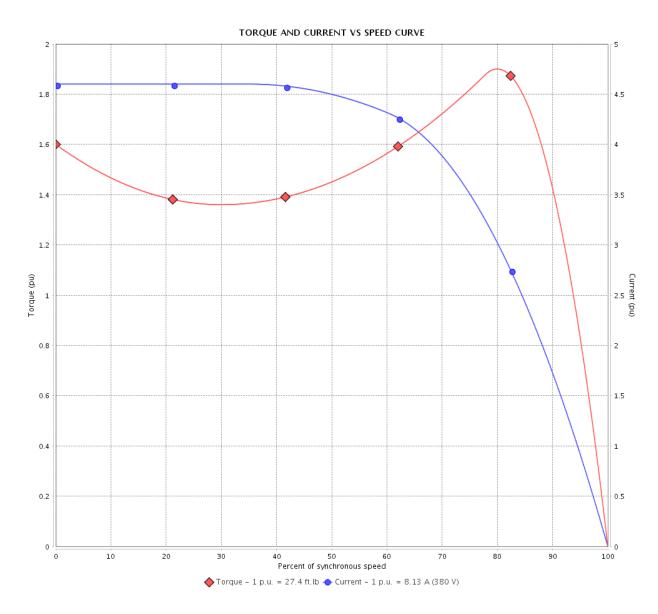


Customer :

Product line : JM Pump NEMA Premium Product code : 13440285

Efficiency Three-Phase

Catalog #: 00512ET3E215JM-S



Performance : 190/380 V 50 Hz 6P Rated current : 16.3/8.13 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 4.6 Duty cycle : Cont.(S1) : 27.4 ft.lb Insulation class Rated torque : F : 160 % Locked rotor torque Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K : B Rated speed : 960 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



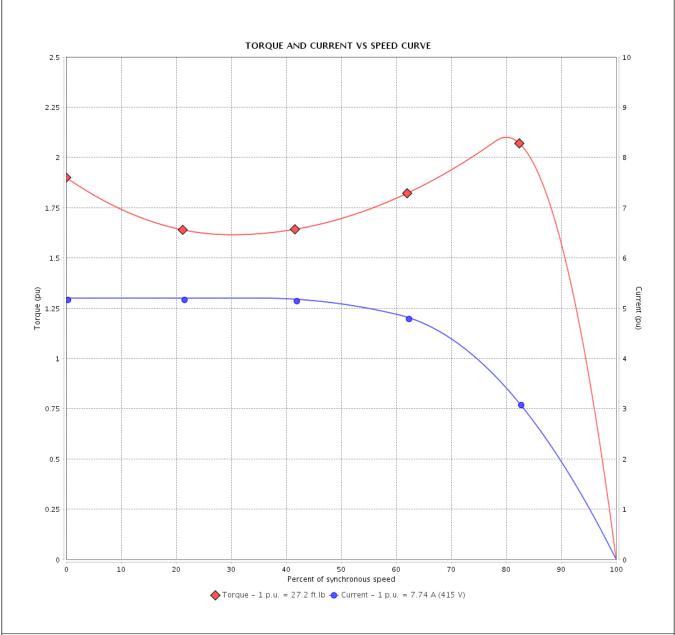
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13440285

Catalog #: 00512ET3E215JM-S



Performance : 220/415 V 50 Hz 6P Rated current : 14.6/7.74 A Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.2 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 965 rpm Design : B

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

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LOAD PERFORMANCE CURVE

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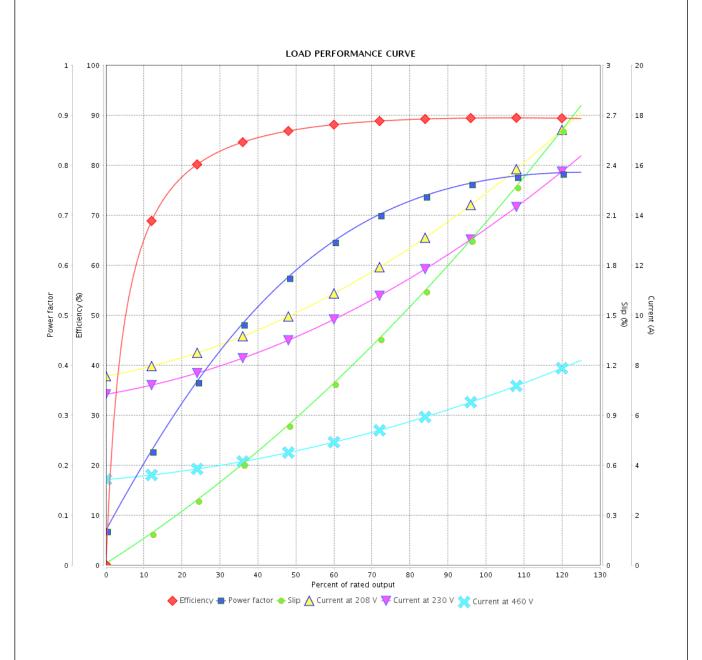
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13440285

Catalog #: 00512ET3E215JM-S



Performance	: 2	230/460 V 60 Hz 6P					
Rated current	:	: 13.5/6.74 A Moment of		f inertia (J)	: 1.26 sq.ft.lb		
LRC	: (6.0	Duty cycle	;	: Cont.(S1)		
Rated torque	: :	22.3 ft.lb	Insulation	class	: F		
Locked rotor torqu	ocked rotor torque : 220 % Service		Service fa	ctor	: 1.15		
Breakdown torque : 250 %		250 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	1175 rpm	Design		: B		
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Date

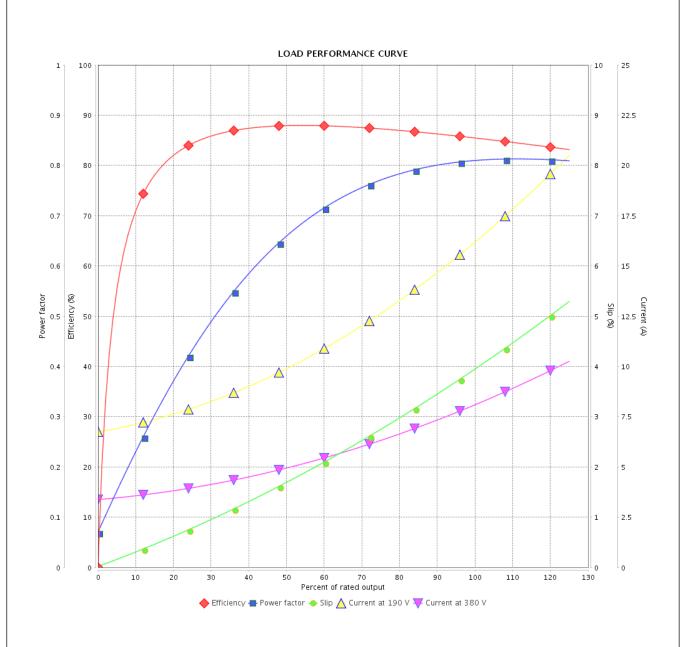
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13440285

Catalog #: 00512ET3E215JM-S



Performance : 190/380 V 50 Hz 6P : 16.3/8.13 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 4.6 Duty cycle : Cont.(S1) : 27.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



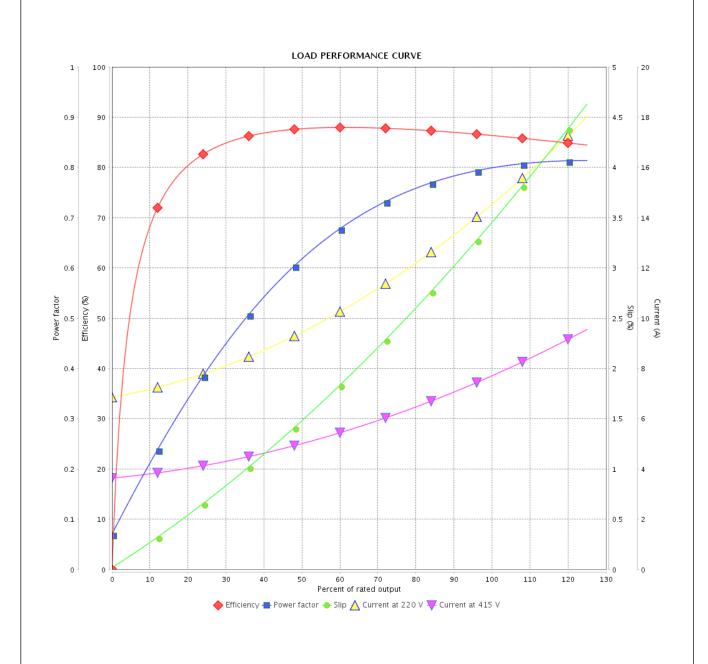
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13440285

Catalog #: 00512ET3E215JM-S



Performance	:	220/415 V 50 Hz 6P				
Rated current	:	14.6/7.74 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC	:	5.2	Duty cycle)	: Cont.(S1)	
Rated torque	:	27.2 ft.lb	Insulation	class	: F	
Locked rotor torque : 190 %		190 %	Service fa	ctor	: 1.00	
Breakdown torque :		210 %	Temperati	ıre rise	: 105 K	
Rated speed	:	965 rpm	Design		: B	
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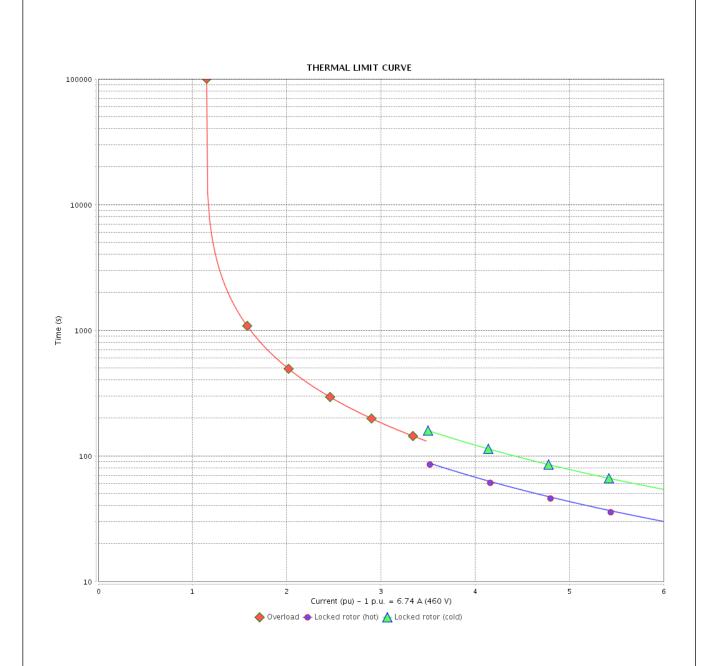


Customer	:					
Product line	: . F	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13440285	
	_			Catalog # :	00512ET3E21	I5JM-S
Performance	. 01	30/460 V 60 Hz 6P				
Rated current		3.5/6.74 A	Moment of	f inertia (J)	: 1.26 sq.ft.lb	
LRC	: 6.	.0	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor tord		2.3 ft.lb 20 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie : 25	50 %	Temperatu		: 80 K	
Rated speed		175 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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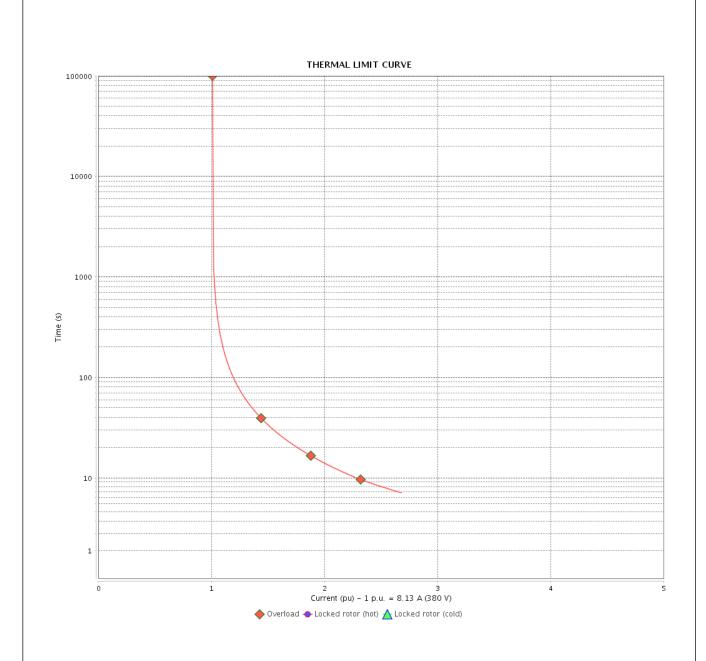


Customer	:					
Product line	: .	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13440285	
	E			Catalog # :	00512ET3E21	I5JM-S
					0001221022	
. .		00/000 \ / 50 \ \ . 0D				
Performance		90/380 V 50 Hz 6P 6.3/8.13 A	Moment	finartia (I)	: 1 26 og ft lb	
Rated current LRC	: 4.	.6	Duty cycle	f inertia (J)	: 1.26 sq.ft.lb : Cont.(S1)	
Rated torque		7.4 ft.lb 60 %	Insulation Service fac	class	: F : 1.00	
Locked rotor tord Breakdown torqu		90 %	Temperatu		: 1.00 : 105 K	
Rated speed		60 rpm	Design		: B	
Heating constant	į					
Cooling constant						
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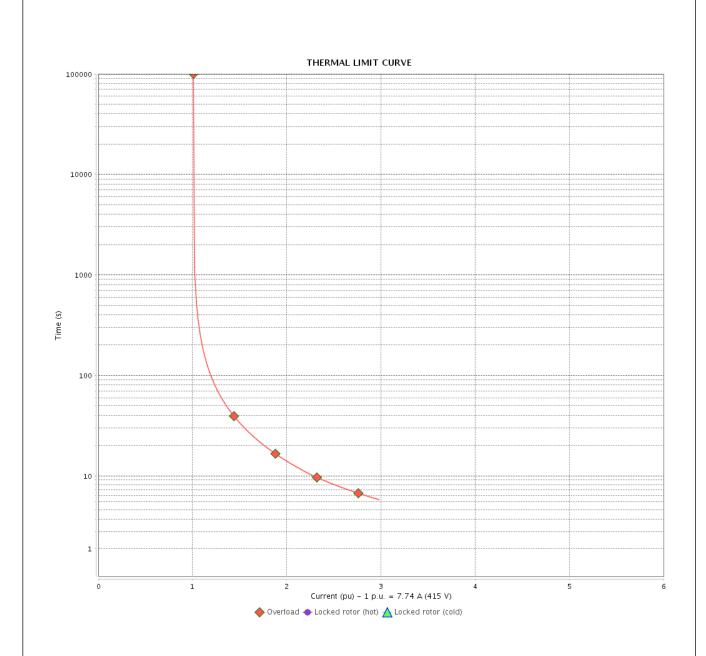


Customer	:					
Product line	:.	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13440285	
	E			Catalog # :	00512ET3E21	I5JM-S
Performance	: 22	20/415 V 50 Hz 6P				
Rated current	: 14	1.6/7.74 A	Moment of	f inertia (J)	: 1.26 sq.ft.lb	
LRC Rated torque	: 5. · 2	2 7.2 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord	jue : 19	90 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		10 % 65 rpm	Temperatu Design	ire rise	: 105 K : B	
			Design			
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 :

Checked by

Date

12/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

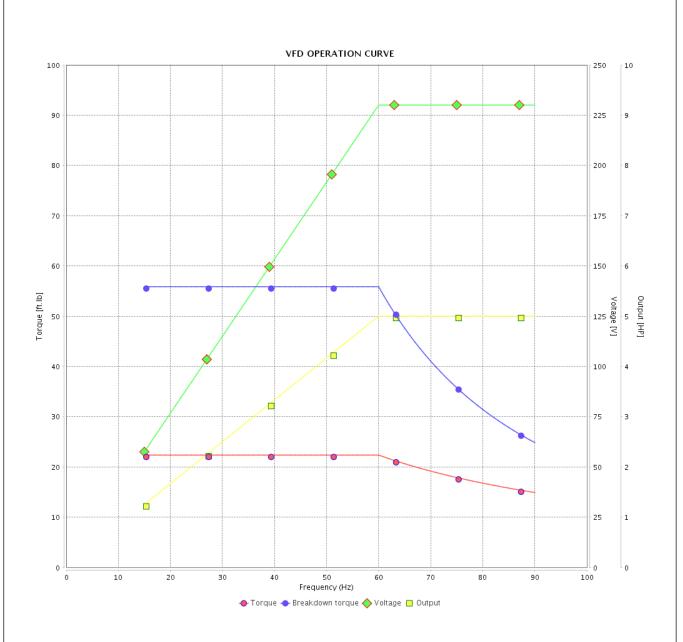
Product code: 13440285

Catalog #: 00512ET3E215JM-S

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Performance	: 230/460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.5/6.74 A : 6.0 : 22.3 ft.lb : 220 % : 250 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.26 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



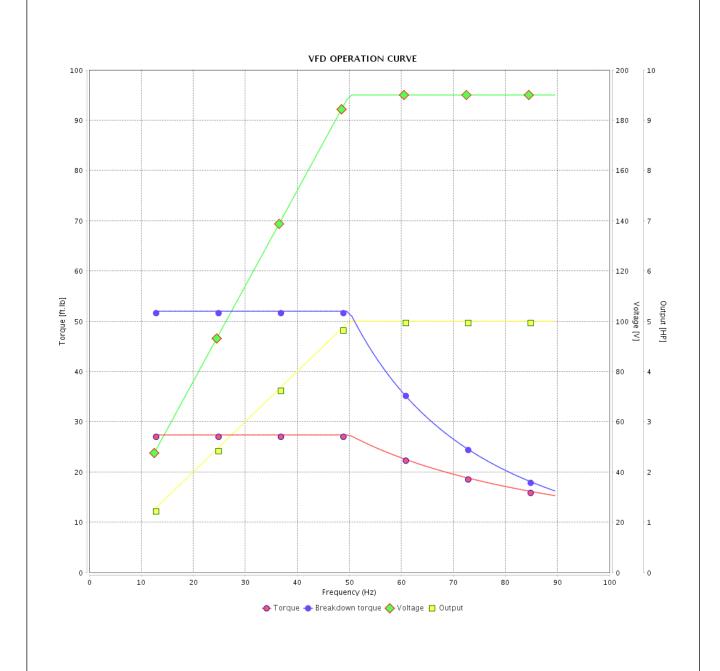
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13440285

Catalog #: 00512ET3E215JM-S



Performance	:	190/380 V 50 Hz 6P					
Rated current : 16.3/8.13 A		Moment o	Moment of inertia (J)				
LRC	: 4.6 Duty cycle		; · ·	: Cont.(S1)			
Rated torque	:	: 27.4 ft.lb Insulation : 160 % Service fa		class	: F		
Locked rotor torqu	ie :			ctor	: 1.00		
Breakdown torque	e :	190 %	Temperati	Temperature rise			
Rated speed	:	960 rpm Design			: B		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

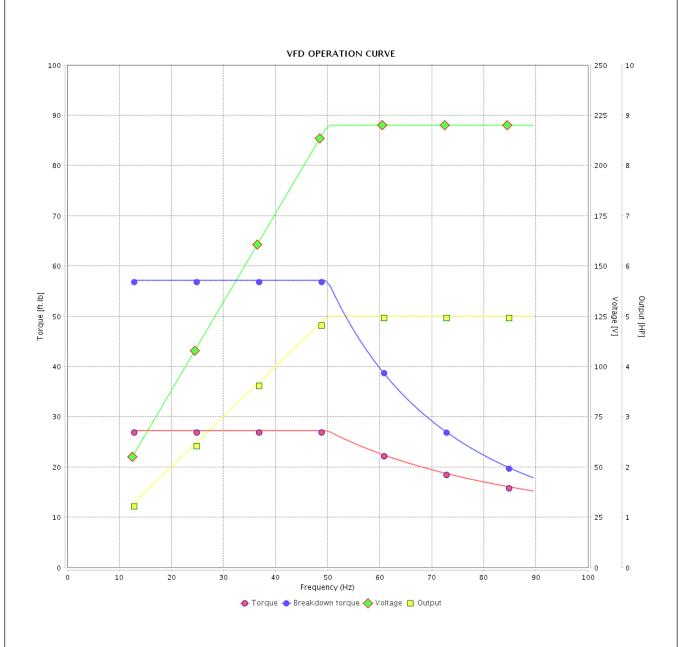
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13440285

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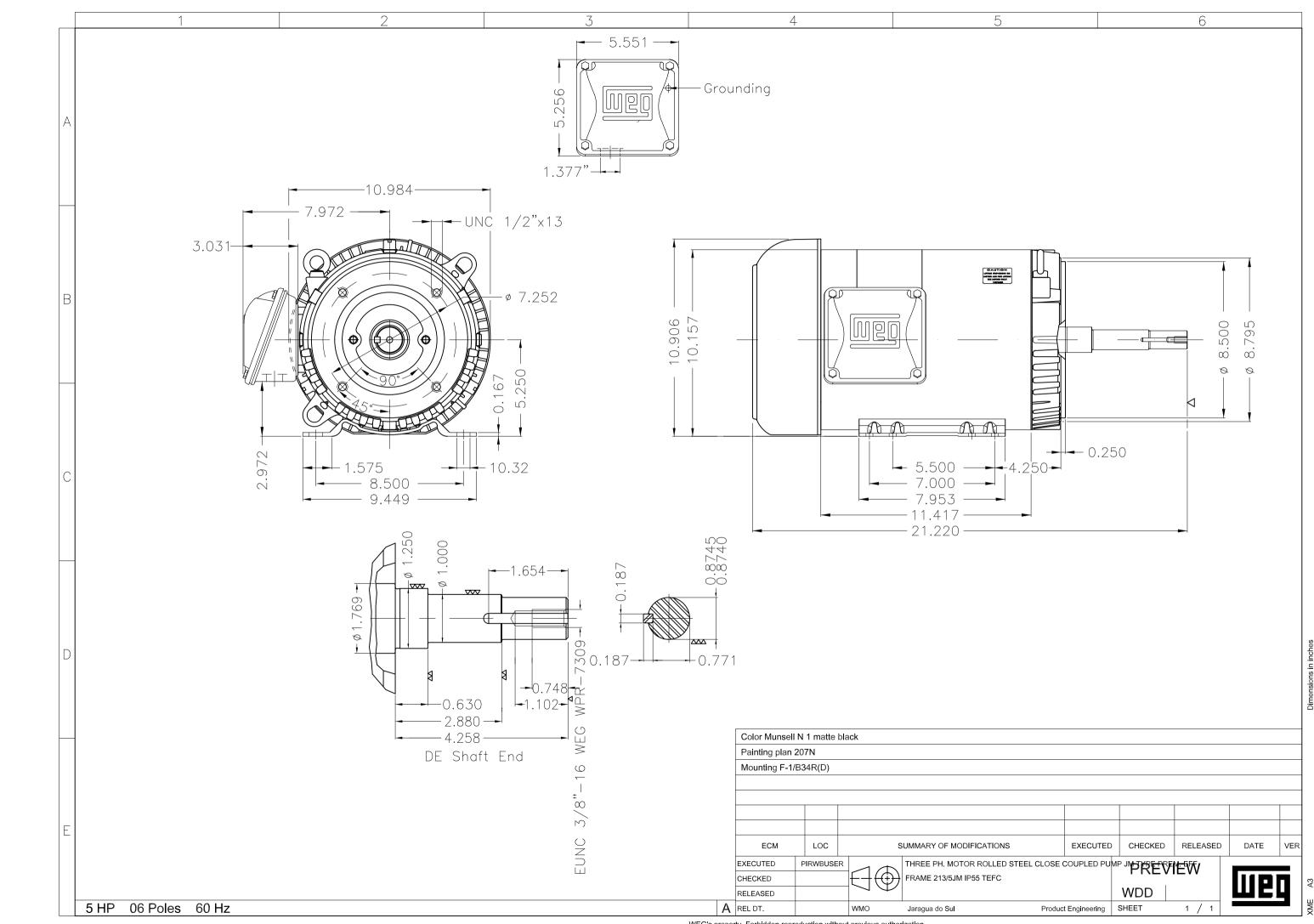


Performance	: 2	20/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5 : 2 jue : 1 ie : 2	4.6/7.74 A 5.2 27.2 ft.lb 90 % 10 % 65 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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S/N

JM005406NPW01 N01.TE0IC0X0N

13JAN2022

13440285

MADE IN MÉXICO

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213/5JM

CONT

13.5/6.74 15.5/7.75

P55

1000 m.a.s.l

F AT 80K

SCI

230/460 1.15

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 **&** Energy Verifi FOR SAFE AREA

JT6

T2-WHT T6-GRY

T4-YEL

IEC 60034-1

SF1.00

190-220/380-415V

89.5%

NOM EFF NEMA 960RPM

50 Hz

18.3-14.3/8.13-7.60A

ZPM 3FA 냃 쌆

> CODE SHO

> TEFC 0

SABLE @ 208V 14.9A ALTERNATE RATING:

SF1.00 NCL W

EFF 85.4%

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT

MOBIL POLYREX EM

ODE 6206-22 5.0HP

8209-ZZ

r3-org T7-PNK T9-BRK T5-BLK 1-BLU



AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

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