DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393200

Catalog #: 00536ET3E184JM-S

Frame : 182/4JM 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 : 88.9 lb Altitude

Protection degree : IP55 Moment of inertia (J) : 0.2079 sq.ft.lb

	-		(-)	
Design		: B		
Output [HP]		5	5	5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		11.8/5.90	14.3/7.17	12.8/6.81
L. R. Amperes [A]		92.0/46.0	91.8/45.9	91.2/48.4
LRC [A]		7.8x(Code J)	6.4x(Code G)	7.1x(Code H)
No load current [A		4.40/2.20	4.34/2.17	4.39/2.33
Rated speed [RPN	/ []	3500	2860	2875
Slip [%]		2.78	4.67	4.17
Rated torque [ft.lb]		7.50	9.18	9.13
Locked rotor torqu	e [%]	220	180	200
Breakdown torque	[%]	300	250	280
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	87.2	89.8	89.3
Efficiency (9/)	50%	87.5	88.1	88.1
Efficiency (%)	75%	88.5	87.3	87.8
	100%	88.5	85.2	86.2
	25%	0.49	0.55	0.52
Power Factor	50%	0.76	0.82	0.79
FOWEI FACIOI	75%	0.85	0.89	0.87
	100%	0.89	0.92	0.91

Non drive end Foundation loads Drive end

Bearing type 6207 ZZ 6205 ZZ Max. traction : 119 lb Sealing V'Ring V'Ring Max. compression : 208 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 13.1A SF 1.00 SFA 13.1A

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



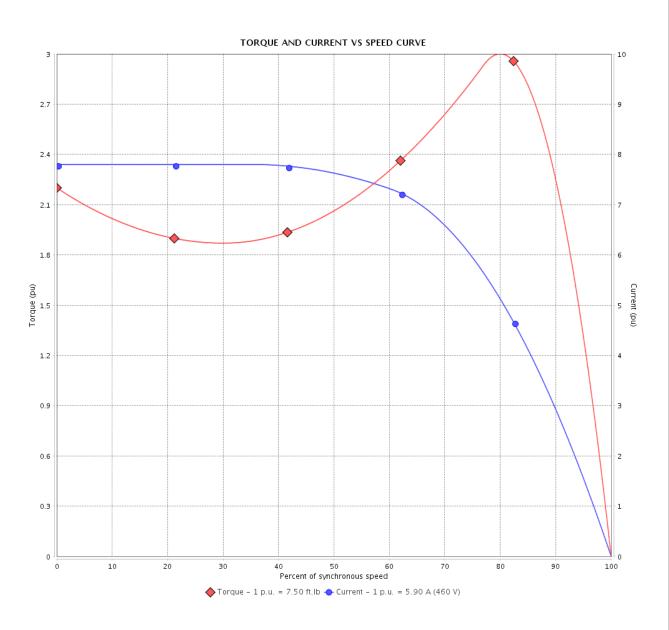
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393200

Catalog #: 00536ET3E184JM-S



Performance : 230/460 V 60 Hz 2P Rated current : 11.8/5.90 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : F : 7.50 ft.lb Insulation class Rated torque : 220 % Service factor : 1.15 Locked rotor torque Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B

Locked rotor time : 30s (cold) 17s (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: 13393200 Efficiency Three-Phase Catalog #: 00536ET3E184JM-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 9.18 ft.lb ◆ Current - 1 p.u. = 7.17 A (380 V)

Performance : 190/380 V 50 Hz 2P Rated current : 14.3/7.17 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.18 ft.lb Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2860 rpm Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



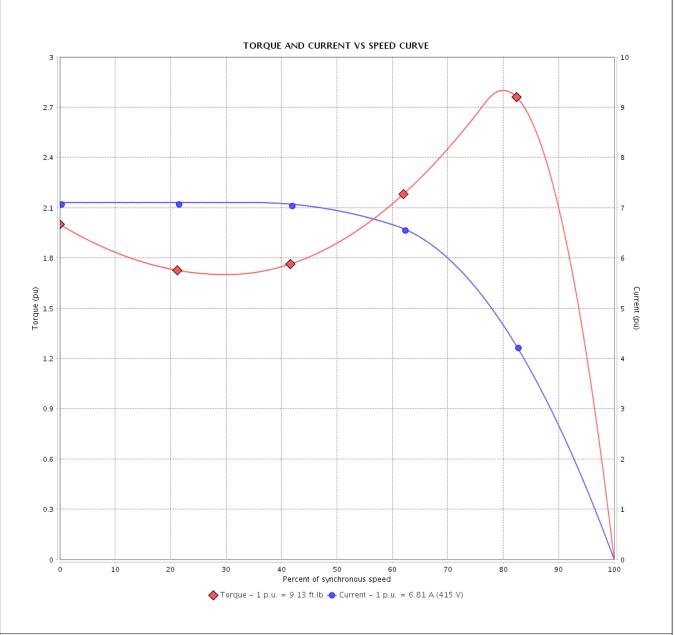
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393200

Catalog #: 00536ET3E184JM-S



Performance : 220/415 V 50 Hz 2P Rated current : 12.8/6.81 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.13 ft.lb : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 2875 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



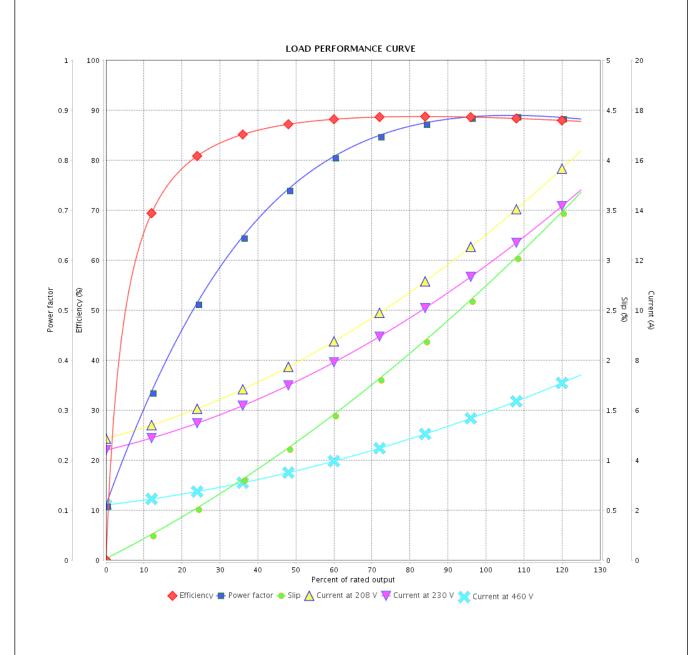
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393200

Catalog #: 00536ET3E184JM-S



Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque		1.8/5.90 A .8 .50 ft.lb 20 %	Moment of Duty cycle Insulation Service fa	class	: 0.2079 sq.ft. : Cont.(S1) : F : 1.15	lb
Breakdown torqu Rated speed		00 % 500 rpm			: 80 K : B	
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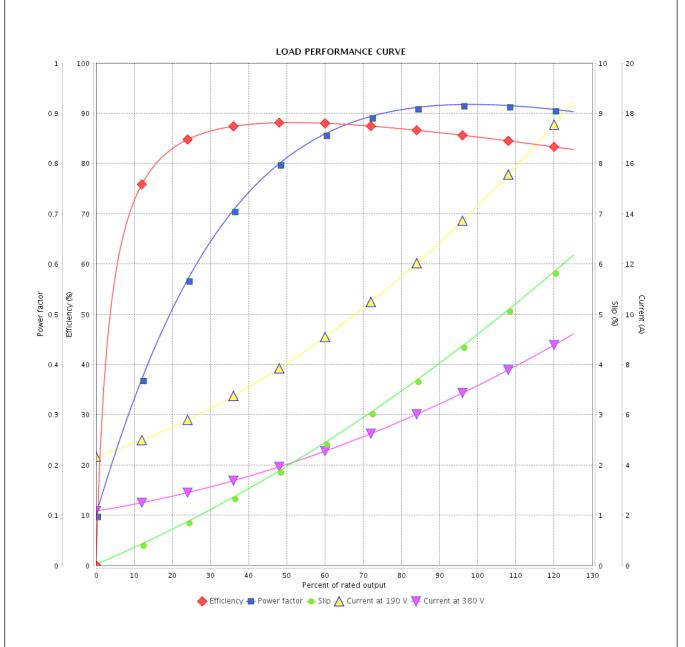
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393200

Catalog #: 00536ET3E184JM-S



Performance : 190/380 V 50 Hz 2P : 14.3/7.17 A Rated current Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.18 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2860 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



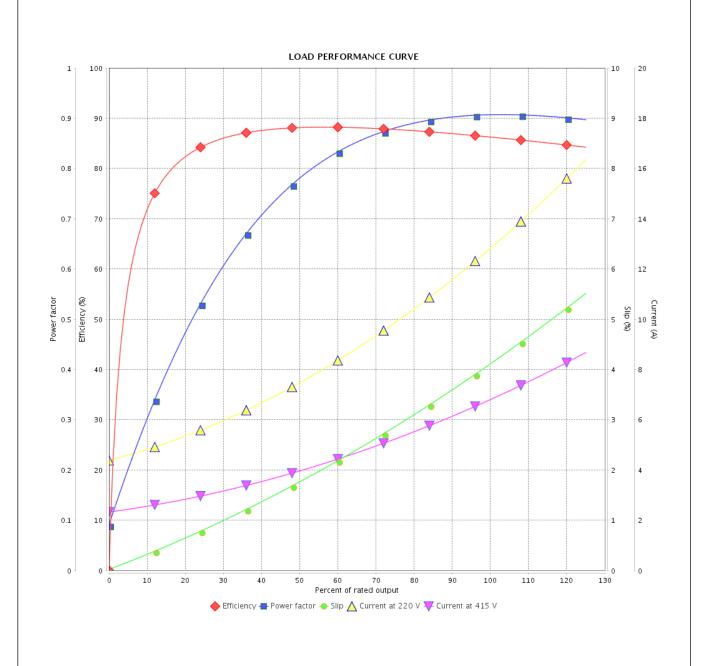
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393200

Catalog #: 00536ET3E184JM-S



Performance	:	220/415 V 50 Hz 2P				
Rated current		12.8/6.81 A	Moment o	f inertia (J)	: 0.2079 sq.ft.lb	
LRC	:	7.1	Duty cycle)	: Cont.(S1)	
Rated torque	:	9.13 ft.lb	Insulation	class	:F	
Locked rotor torque		200 %	Service fa	ctor	: 1.00	
Breakdown torque	:	280 %	Temperature rise		: 105 K	
Rated speed	:	2875 rpm Design			: B	
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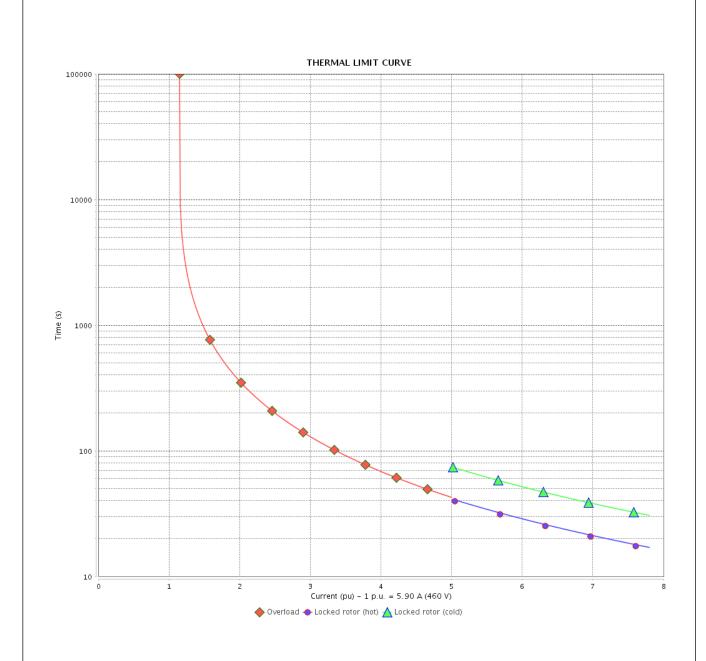


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13393200	
		Liliciency Three-Friase		Catalog # :	00536ET3E1	84JM-S
Performance	:	230/460 V 60 Hz 2P				
Rated current LRC		11.8/5.90 A 7.8	Moment o	of inertia (J)	: 0.2079 sq.ft.l	b
Rated torque		7.8 7.50 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	220 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		300 % 3500 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan		•				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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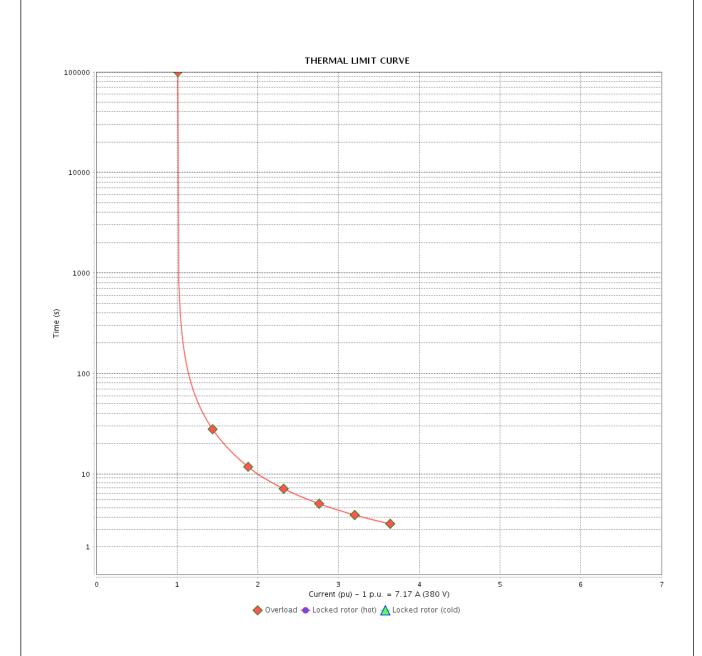


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13393200	
		Liliciency Three-Friase		Catalog # :	00536ET3E1	84JM-S
Performance	•	190/380 V 50 Hz 2P				
Rated current		14.3/7.17 A	Moment o	of inertia (J)	: 0.2079 sq.ft.l	b
LRC		6.4 9.18 ft.lb	Duty cycle	Э	: Cont.(S1) : F	
Rated torque Locked rotor tord		: 180 %	Service fa		: F : 1.00	
Breakdown torqu	ue :	250 %	Temperat		: 105 K	
Rated speed	•	2860 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change Comm		Dest	Obl !	D-1-
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

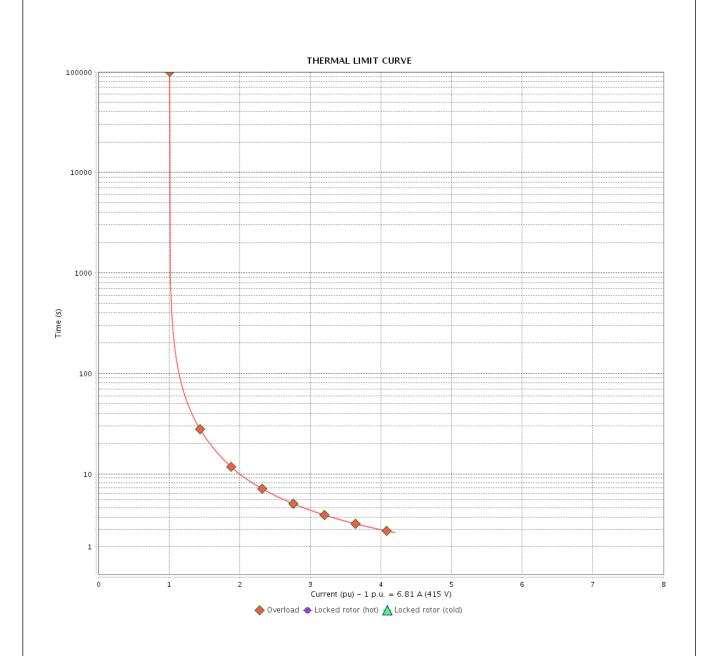


Customer	:					
Product line	: F	JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13393200	
	-	indicately three trade		Catalog # :	00536ET3E1	84JM-S
Performance		220/415 V 50 Hz 2P				
Rated current		12.8/6.81 A	Moment o	f inertia (J)	: 0.2079 sq.ft.l	
LRC	: 7	7.1	Duty cycle	;	: Cont.(S1)	~
Rated torque		9.13 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		200 % 280 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		2875 rpm	Design	3.0.1.00	: B	
Heating constan						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

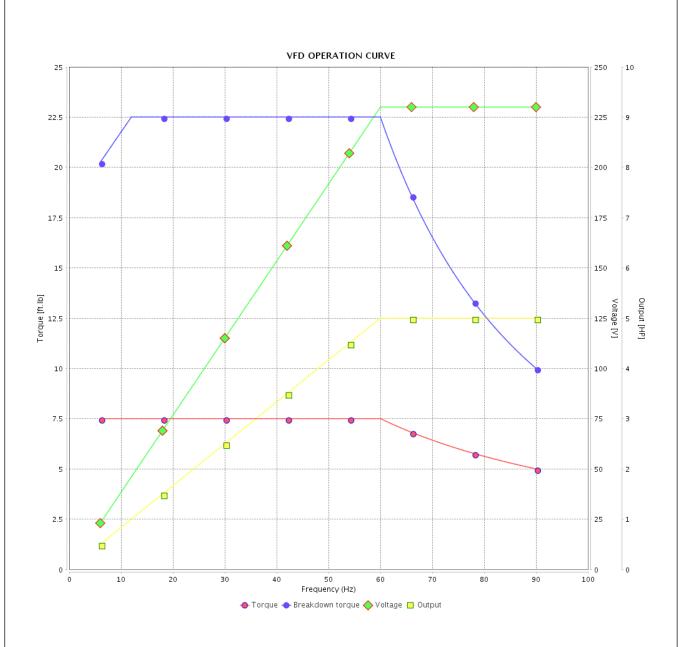
Product code: 13393200

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Performance	:	: 230/460 V 60	Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	: 11.8/5.90 A : 7.8 : 7.50 ft.lb : 220 % : 300 % : 3500 rpm		Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.2079 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



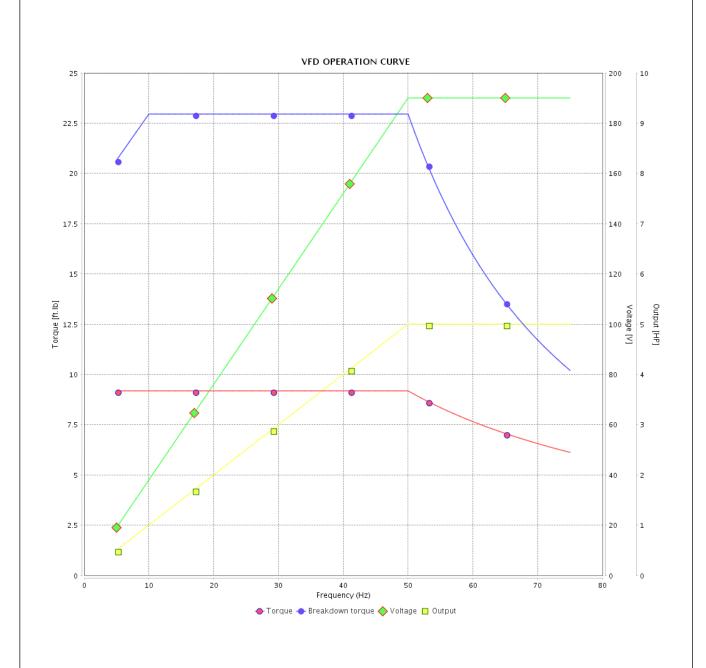
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13393200

Catalog #: 00536ET3E184JM-S



Performance	: 190/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.3/7.17 A : 6.4 : 9.18 ft.lb : 180 % : 250 % : 2860 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2079 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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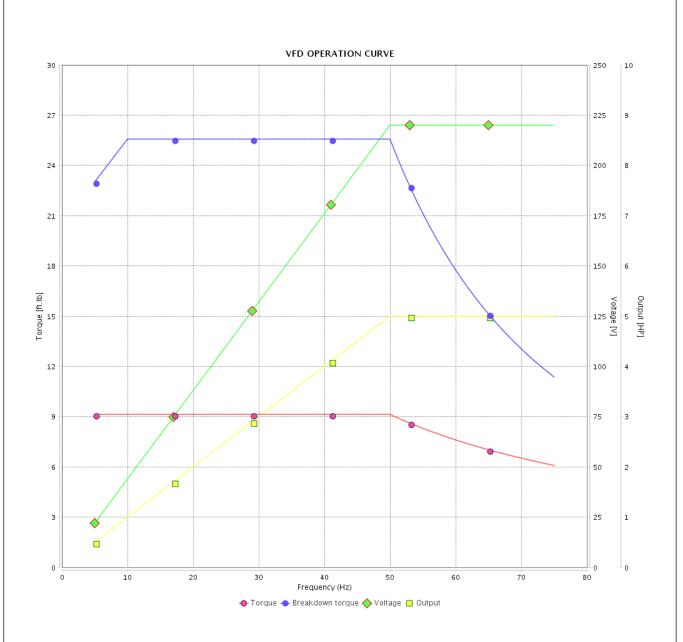
13/04/2022

Product line : JM Pump NEMA Premium

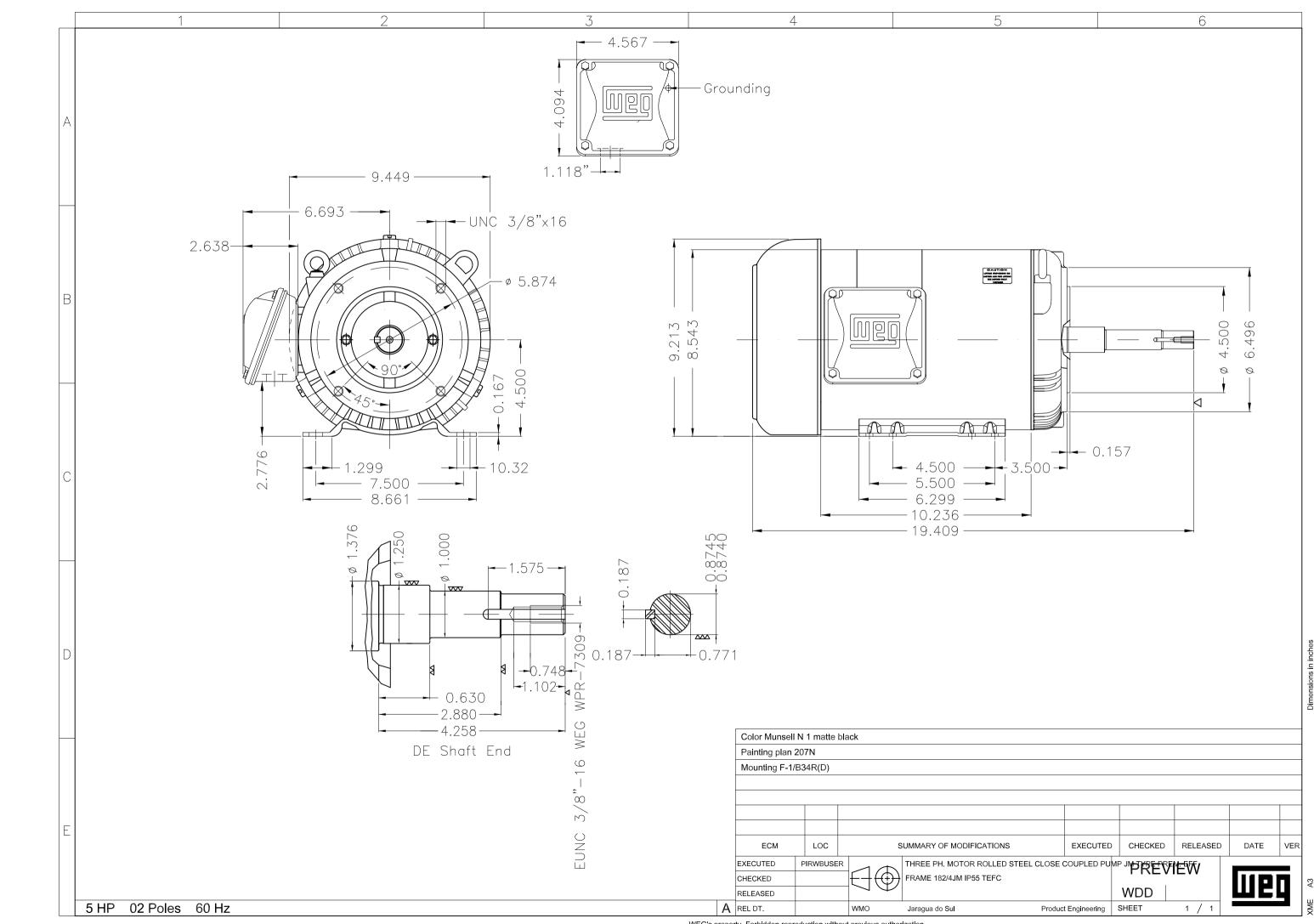
Efficiency Three-Phase

Product code: 13393200

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Performance : 220/415 V 50 Hz 2P : 12.8/6.81 A Rated current Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.13 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 2875 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





MADE IN MÉXICO

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FOR SAFE AREA

3PT9

Energy Verifi

MODEL 00536ET3E184JM-S S/N N01.TE0IC0X0N 13393200 20APR2022

Hz 60

182/4.IM

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

> P55 SH 1000 m.a.s.l F AT 80K CONT TEFC 0

SCI

11.8/5.90 13.6/6.79

230/460 1.15

> CODE SABLE @ 208V 13.1A ALTERNATE RATING:

SF1.00 INC. W

SPM SPM 3FA 냃 쌆

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT 2860RPM ODE 6205-2Z 5.0HP **JT6** 14.3-12.47.17-6.59A

8207-ZZ

IEC 60034-1

SF1.00

190-220/380-415V

88.5%

NOM EFF

50 Hz

EFF 85.2%

MOBIL POLYREX EM

T2-WHT

1-BLU

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

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

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 NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local

T6-GRY T8-RED T4-YEL