### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog # : 00212ET3E184JM-S

Frame : 182/4JM Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 87.2 lb

Protection degree : IP55 Moment of inertia (J) : 0.3424 sq.ft.lb

Design		: B		
Output [HP]		2	2	2
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		6.00/3.00	7.00-6.05/3.50	3.41
L. R. Amperes [A]		45.0/22.5	42.7-36.9/21.3	24.2
LRC [A]		7.5x(Code K)	6.1x(Code H)	7.1x(Code K)
No load current [A	.]	3.74/1.87	3.69-3.19/1.85	2.15
Rated speed [RPN	Л]	1170	955	965
Slip [%]		2.50	4.50	3.50
Rated torque [ft.lb]	]	8.98	11.0	10.9
Locked rotor torqu		260	210	280
Breakdown torque	: [%]	370	280	350
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		79s (cold) 44s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
	25%			
Efficiency (%)	50%	84.0	85.3	83.7
Efficiency (%)	75%	86.5	86.4	86.0
	100%	88.5	85.7	86.2
	25%			
Power Factor	50%	0.50	0.57	0.50
i ower i actor	75%	0.62	0.69	0.63
	100%	0.71	0.76	0.71

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

Bearing type : 6207 ZZ 6205 ZZ Max. traction : 200 lb Sealing : V'Ring Without Max. compression : 287 lb

Bearing Seal

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

Notes

USABLE @208V 6.63A SF 1.00 SFA 6.63A

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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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1 / 16	

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



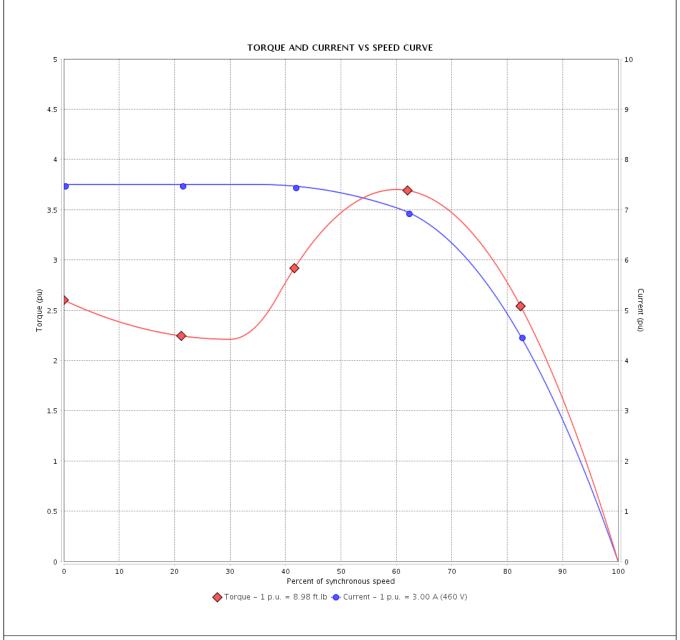
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog #: 00212ET3E184JM-S



Performance : 230/460 V 60 Hz 6P Rated current : 6.00/3.00 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 8.98 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 260 % : 1.15 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 79s (cold) 44s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/16	

### TORQUE AND CURRENT VS SPEED CURVE

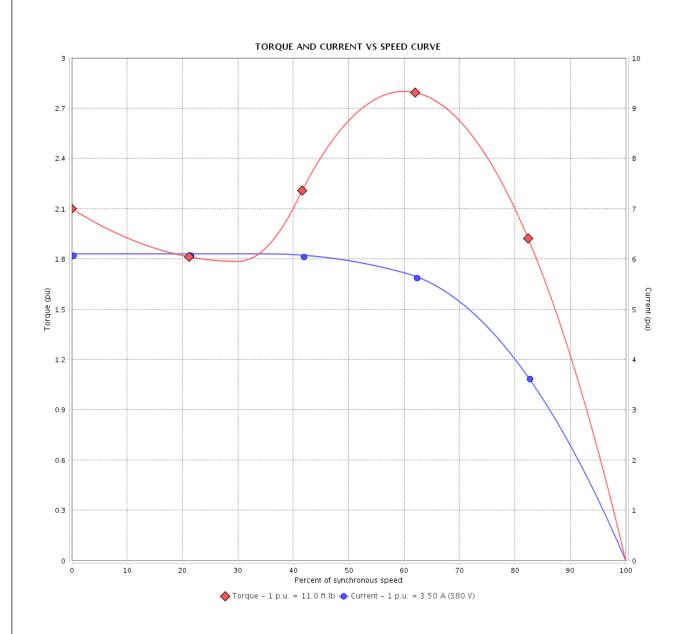
#### Three Phase Induction Motor - Squirrel Cage



Customer Product line Product code: 13485858

: JM Pump NEMA Premium Efficiency Three-Phase

Catalog #: 00212ET3E184JM-S



Performance : 190-220/380 V 50 Hz 6P Rated current : 7.00-6.05/3.50 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 11.0 ft.lb Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 955 rpm Design : B Locked rotor time

: 0s (cold) 0s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			3 / 16	

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



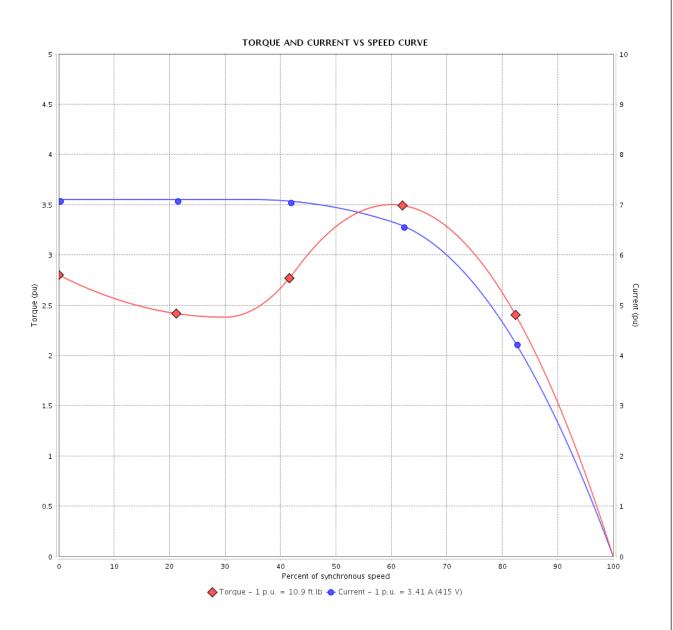
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog #: 00212ET3E184JM-S



Performance : 415 V 50 Hz 6P Rated current : 3.41 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 10.9 ft.lb Service factor Locked rotor torque : 280 % : 1.15 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 965 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 16	

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



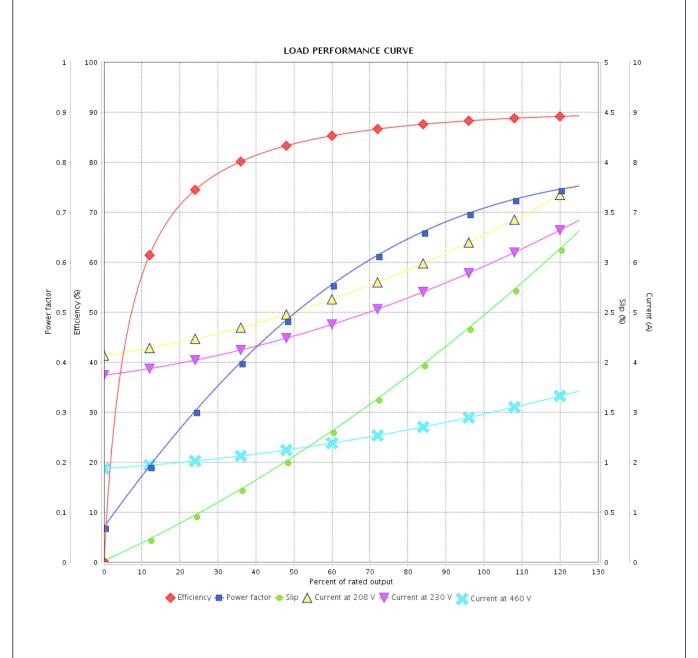
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog #: 00212ET3E184JM-S



Performance	: 2	230/460 V 60 Hz 6P				
Rated current	: 6	6.00/3.00 A	Moment o	f inertia (J)	: 0.3424 sq.ft.lb	
LRC	: 7	7.5	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 8	3.98 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	260 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	370 %	Temperati	Temperature rise		
Rated speed	: '	1170 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				5 / 16	

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



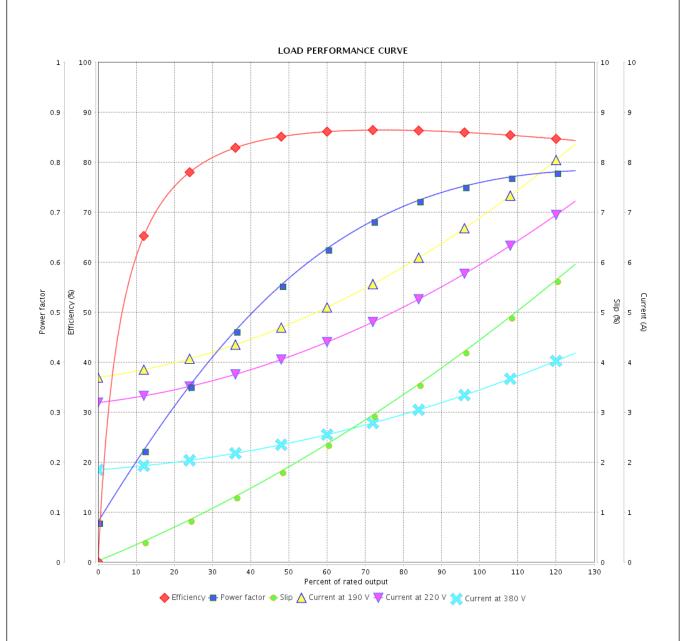
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog #: 00212ET3E184JM-S



Performance	: 190-220/380 V 50 Hz 6P				
Rated current	: 7.00-6.05/3.50 A	Moment of	f inertia (J)	: 0.3424 sq.ft.	lb
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 11.0 ft.lb	Insulation		: F ` ´	
Locked rotor torque	: 210 %	Service factor		: 1.15	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 955 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/16

14/04/2022

Date

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



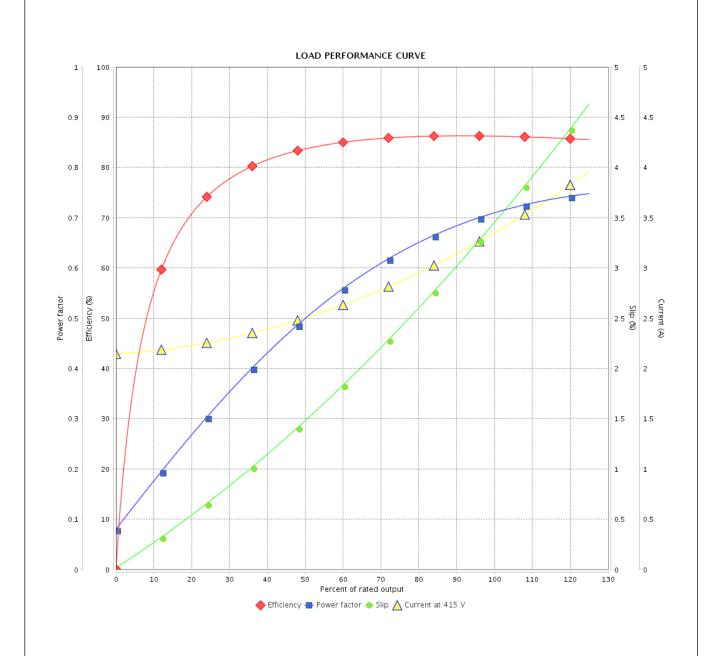
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog #: 00212ET3E184JM-S



Performance	: 4	415 V 50 Hz 6P				
Rated current	::	3.41 A	Moment o	f inertia (J)	: 0.3424 sq.ft.	.lb
LRC	: 7	7.1	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: '	10.9 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	280 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	350 %	Temperature rise		: 80 K	
Rated speed	: 9	965 rpm	Design		: B	
Rev.		Changes Summary	I	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	14/04/2022	7			7 / 16	

### Three Phase Induction Motor - Squirrel Cage

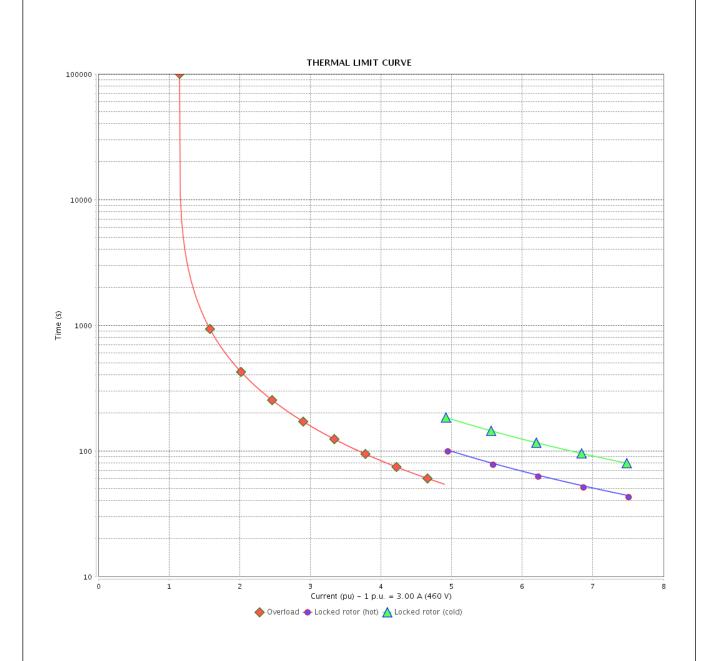


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13485858	
		Linciency Three-i hase		Catalog # :	00212ET3E1	84JM-S
Performance		: 230/460 V 60 Hz 6P				
Rated current		: 6.00/3.00 A	Moment o	of inertia (J)	: 0.3424 sq.ft.l	b
LRC	:	: 7.5 : 8.98 ft.lb	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		: 260 %	Service fa		: F : 1.15	
Breakdown torqu	ie :	: 370 %	Temperat		: 80 K	
Rated speed	•	: 1170 rpm	Design		: B	
Heating constant						
Cooling constant	t	01 0			OI	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				8 / 16	IZGVISION

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			9/16	

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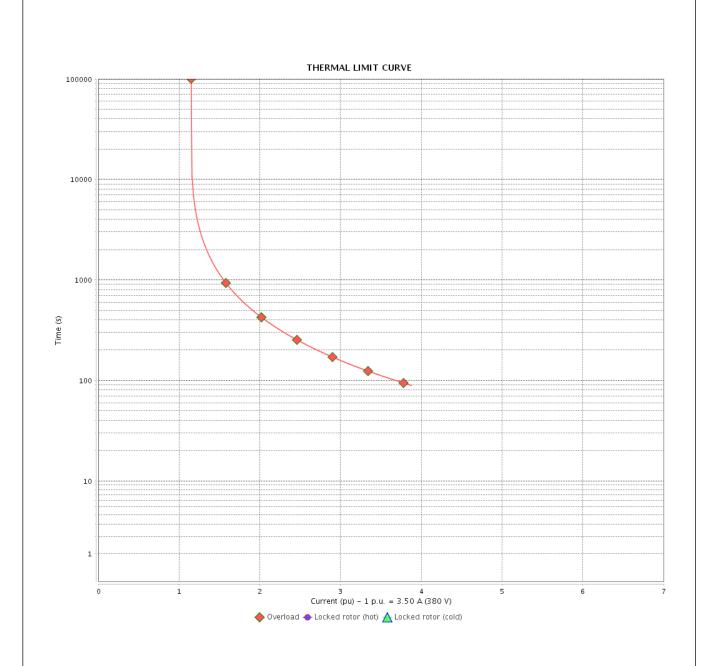


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13485858	
		Lindency Three-i hase		Catalog # :	00212ET3E1	84JM-S
Performance		190-220/380 V 50 Hz 6P	Managarta	finantia (1)	. 0 2424 #1	<b>L</b>
Rated current LRC		7.00-6.05/3.50 A 6.1	Duty cycle	of inertia (J) e	: 0.3424 sq.ft.l : Cont.(S1)	D
Rated torque		11.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		210 % 280 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		955 rpm	Design	uie lise	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary	l	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				10 / 16	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/04/2022			11 / 16	

### Three Phase Induction Motor - Squirrel Cage

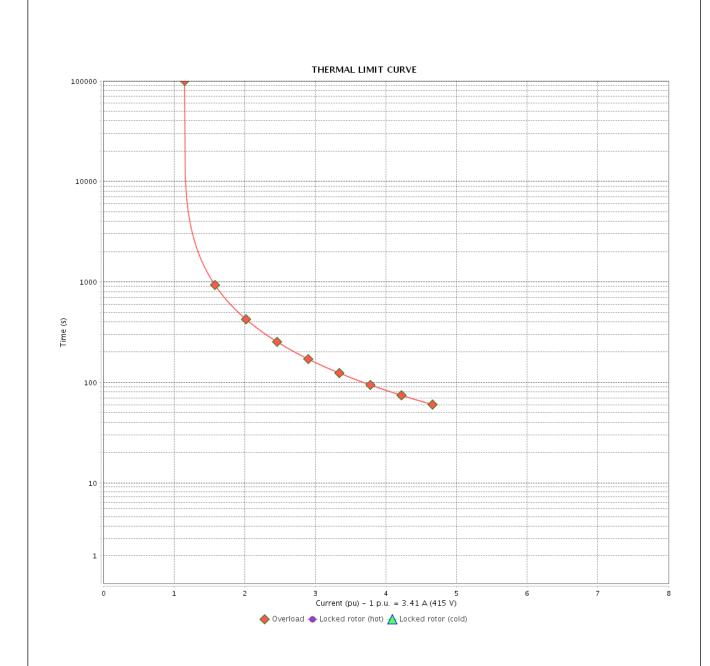


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D 1 1"		IMP . NEW D		<b>D</b>	40.405050	
Product line	: E	JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13485858	
	_			Catalog # :	00212ET3E1	84JM-S
Performance		115 V 50 Hz 6P				
Rated current LRC		3.41 A 7.1	Moment o Duty cycle	f inertia (J)	: 0.3424 sq.ft.l : Cont.(S1)	b
Rated torque	: 1	10.9 ft.lb	Insulation	class	: F	
Locked rotor tord		280 %	Service fa		: 1.15	
Breakdown torqu Rated speed		350 % 965 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constan		-				
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	14/04/2022				12 / 16	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			13 / 16	

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



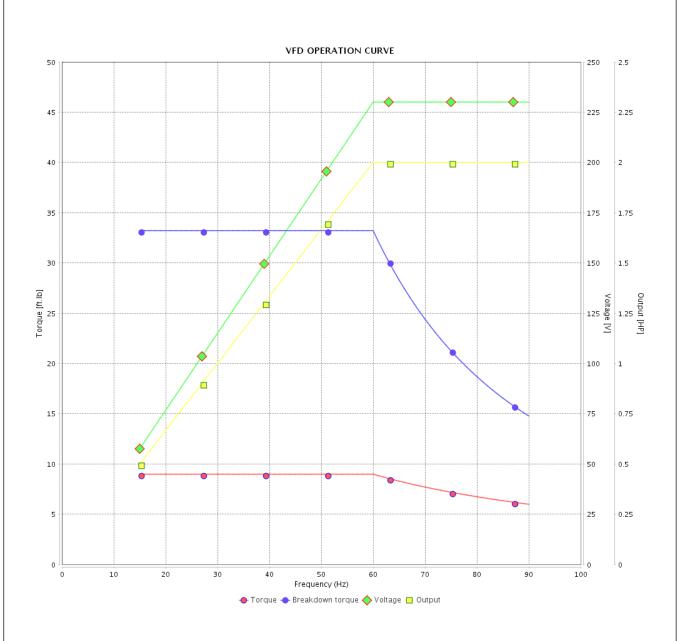
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog #: 00212ET3E184JM-S



		*					
Performance	: 230/460 V 60 Hz 6P						
Rated current LRC	: 6.00/3.00 A : 7.5	Moment of inertia (J) Duty cycle		: 0.3424 sq.ft.lb : Cont.(S1)			
Rated torque	: 8.98 ft.lb	Insulation class		:F			
Locked rotor torque Breakdown torque	: 260 % : 370 %	Service factor Temperature rise Design		: 1.15 : 80 K			
Rated speed	: 1170 rpm			: B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

14/16

14/04/2022

Date

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



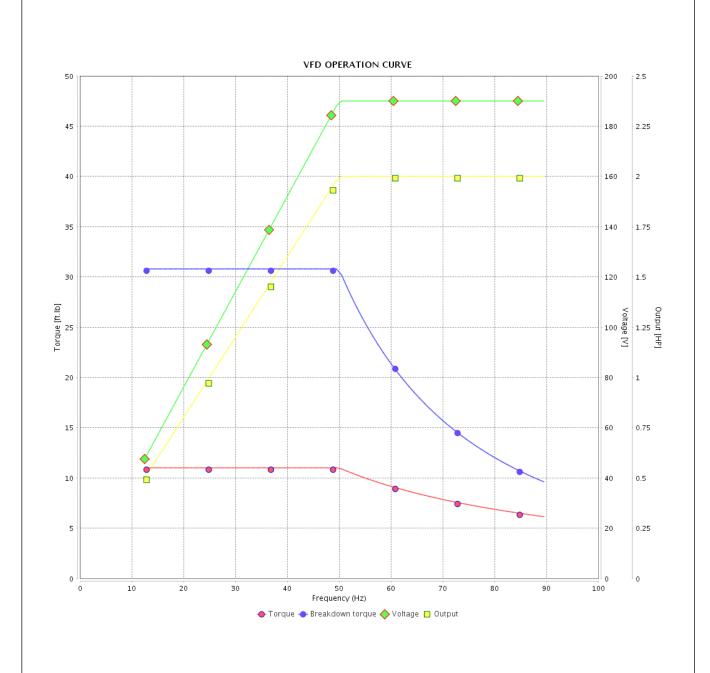
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog #: 00212ET3E184JM-S



Performance :		: 190-220/380 V 50 Hz 6P						
Rated current : 7		.00-6.05/3.50 A	Moment o	Moment of inertia (J)		lb		
LRC : 6		.1	Duty cycle	Duty cycle				
Rated torque		1.0 ft.lb	Insulation class		:F			
Locked rotor torque		10 %	Service factor		: 1.15			
Breakdown torque	e : 28	280 % Temperatur		ure rise	: 80 K : B			
Rated speed	: 9	55 rpm	rpm Design					
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by		-			Page	Revision		
Date	14/04/2022	1			15 / 16			

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



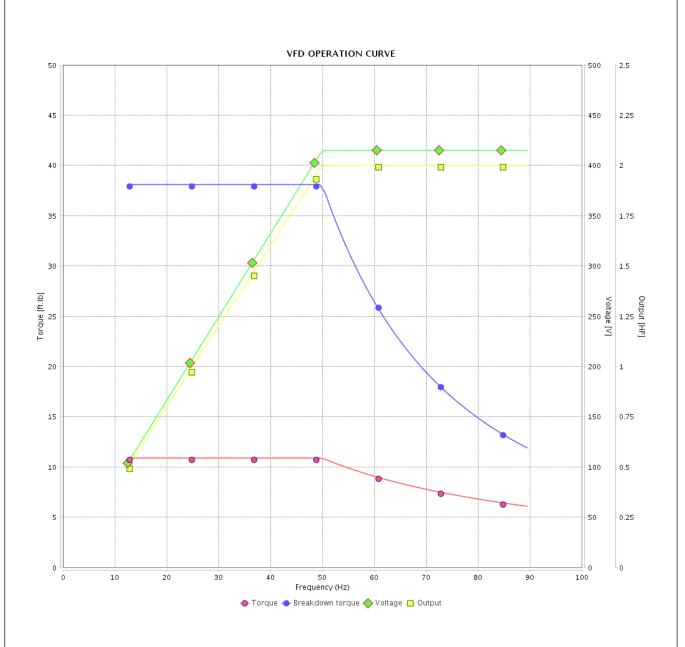
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13485858

Catalog #: 00212ET3E184JM-S

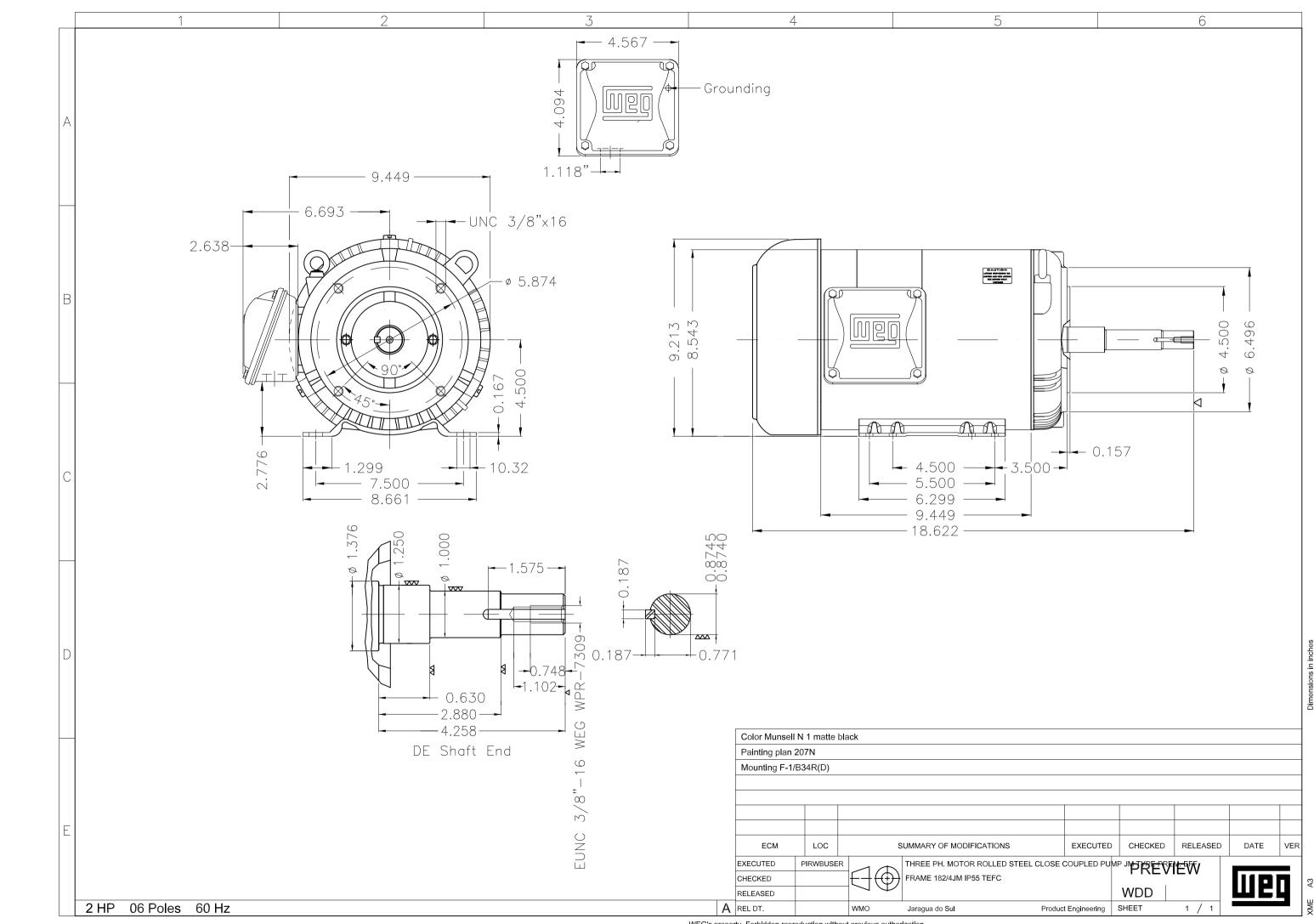


		<del></del>					
Performance	: 415 V 50 Hz 6P						
Rated current LRC	: 3.41 A : 7.1	Moment of inertia (J)		: 0.3424 sq.ft.lb			
Rated torque	: 10.9 ft.lb	9 ft.lb Insulation class 0 % Service factor Temperature rise		class : F ctor : 1.15			
Locked rotor torque Breakdown torque	: 280 % : 350 %						
Rated speed	: 965 rpm						
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

16 / 16

14/04/2022

Date





Premiur NEX

3PT9

MODEL 00212ET3E184JM-S

N01.TE0IC0X0N

13485858

MADE IN MÉXICO

**&** Energy Verifi (**UL)**US LISTED FOR SAFE AREA

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)

> 5.00/3.00 5.90/3.45

> > 3FA 냃 쌆

> > > P55

1000 m.a.s.l

F AT 80K

SCI

CODE SH

TEFC <del>0</del>

SABLE @ 208V 6.63A ALTERNATE RATING:

SF1.00 NCL W

230/460 1.15

Hz 60

182/4.IM 07JAN2022

CONT

S/N

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 4:1 CT 190-220/380-415V MOBIL POLYREX EM **EFF 85.7%** 88.5% NOM EFF NEMA 955RPM SPM 50 Hz ODE 6205-22 2.0HP

7.00-6.43/3.50-3.41A

8207-ZZ

IEC 60034-1

SF1.15

TE



1-BLU

conformément aux codes électriques locaux et nationaux afin d'éviter tout NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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.