## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code:

Efficiency Three-Phase

Catalog #: 00718ET3E213JM-SG

12969542

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

Insulation class 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

· 1000 m a s l Approx weight<sup>3</sup>

Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 132 lb
Protection degre	е	: IP55	Moment of inertia (J)	: 0.9380 sq.ft.lb
Design		: B		•
Output [HP]		7.5	7.5	7.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		18.1/9.07	22.0/11.0	20.0/10.6
L. R. Amperes [A]		132/66.2	136/68.2	136/72.1
LRC [A]		7.3x(Code H)	6.2x(Code G)	6.8x(Code H)
No load current [A	]	8.81/4.41	8.65/4.33	8.93/4.73
Rated speed [RPN	<i>/</i> 1]	1770	1455	1460
Slip [%]		1.67	3.00	2.67
Rated torque [ft.lb]		22.3	27.1	27.0
Locked rotor torqu	e [%]	260	190	220
Breakdown torque	[%]	300	250	280
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		39s (cold) 22s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		60.0 dB(A)	57.0 dB(A)	57.0 dB(A)
	25%	89.4	91.3	90.4
Efficiency (%)	50%	90.2	90.2	89.8
Elliciency (70)	75%	91.0	90.0	90.1
	100%	91.7	88.6	89.2
	25%	0.39	0.45	0.41
Power Factor	50%	0.64	0.71	0.67
FUWEI FACIOI	75%	0.76	0.82	0.79
	100%	0.82	0.86	0.84

Non drive end Foundation loads Drive end

Bearing type 6209 ZZ 6206 ZZ Max. traction : 360 lb Sealing V'Ring Without Max. compression : 492 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 20.1A SF 1.00 SFA 20.1A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 16	

## TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



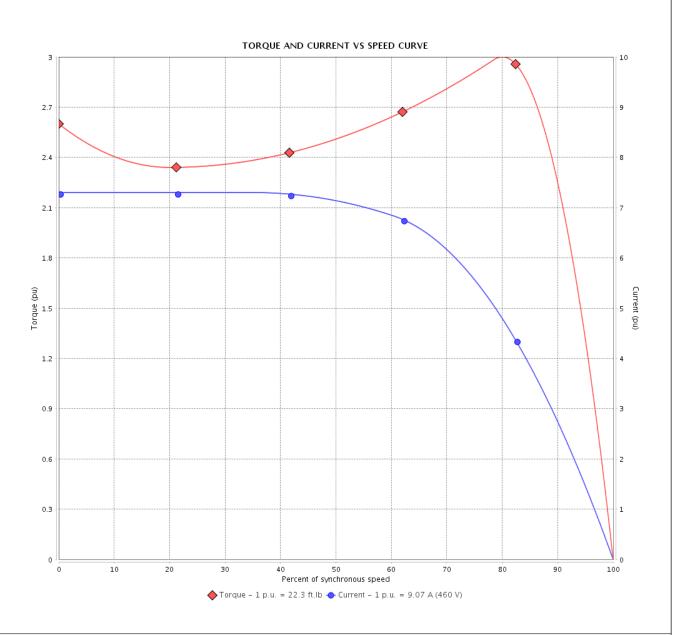
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12969542

Catalog #: 00718ET3E213JM-SG



Performance : 230/460 V 60 Hz 4P Rated current : 18.1/9.07 A Moment of inertia (J) : 0.9380 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : F : 22.3 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 260 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/16	

## TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

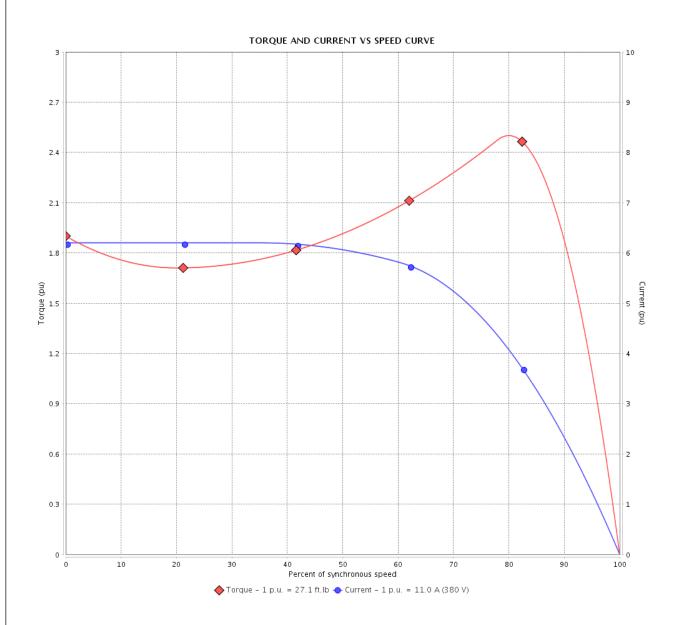


Customer :

Product line : JM Pump NEMA Premium Product code : 12969542

Efficiency Three-Phase

Catalog #: 00718ET3E213JM-SG



Performance : 190/380 V 50 Hz 4P Rated current : 22.0/11.0 A Moment of inertia (J) : 0.9380 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 27.1 ft.lb Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 16	

## TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



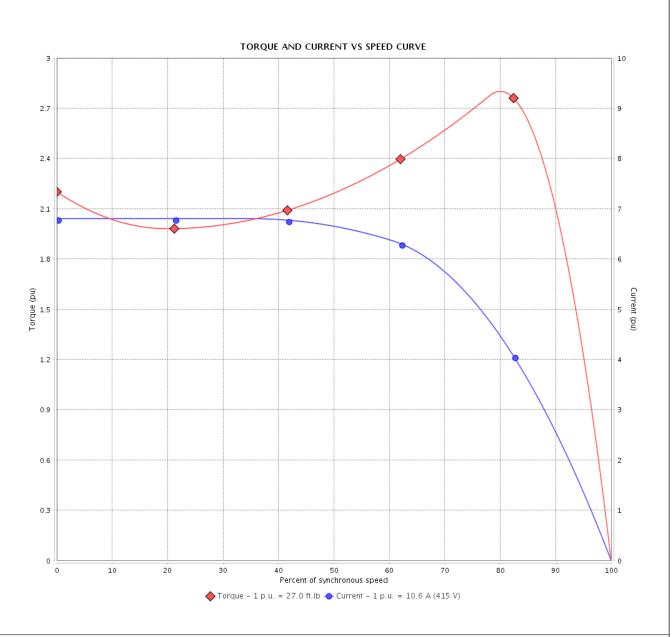
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12969542

Catalog #: 00718ET3E213JM-SG



Performance : 220/415 V 50 Hz 4P

Rated current : 20.0/10.6 A | Moment of inertia (J) : 0.9380 sq.ft.lb LRC : 6.8 | Duty cycle : Cont.(S1) Rated torque : 27.0 ft.lb | Insulation class : F

Locked rotor torque: 220 %Service factor: 1.00Breakdown torque: 280 %Temperature rise: 80 KRated speed: 1460 rpmDesign: B

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 16	

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



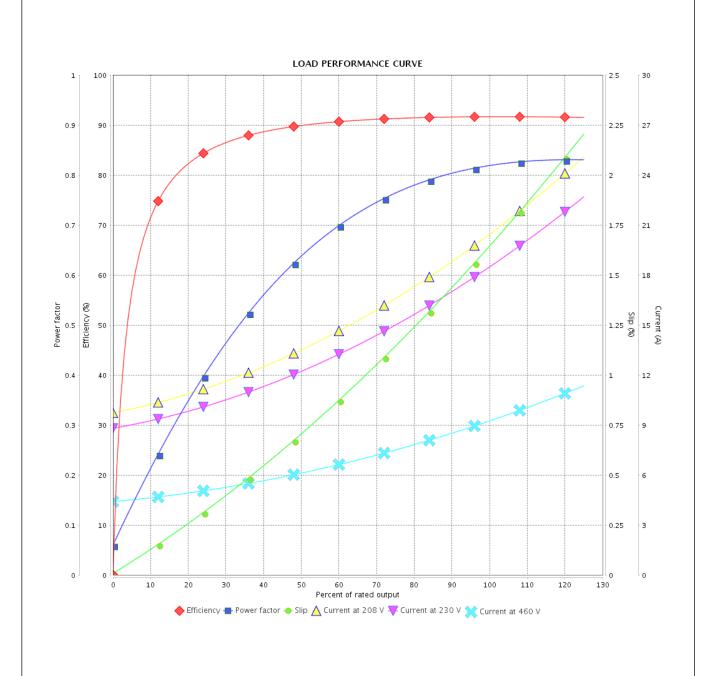
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12969542

Catalog #: 00718ET3E213JM-SG



Performance	:	230/460 V 60 Hz 4P				
Rated current : 18.		18.1/9.07 A	Moment o	Moment of inertia (J)		.lb
LRC	:	7.3	Duty cycle	;	: Cont.(S1)	
Rated torque	:	22.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue :	260 %	Service fa	ctor	: 1.15	
Breakdown torque		300 %	Temperati	Temperature rise		
Rated speed	:	1770 rpm Design			: B	
Rev.		Changes Summary	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				5 / 16	

## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 16

Customer :

Checked by

Date

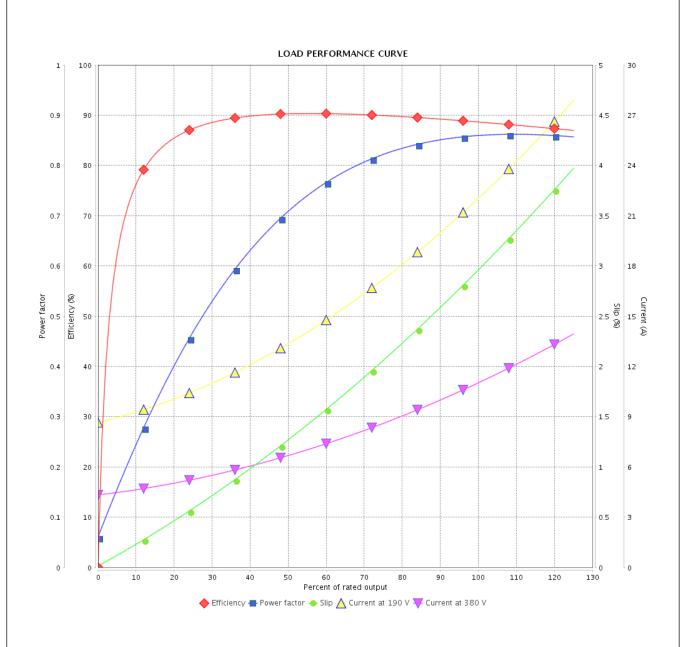
13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12969542

Catalog #: 00718ET3E213JM-SG



Performance : 190/380 V 50 Hz 4P : 22.0/11.0 A Rated current Moment of inertia (J) : 0.9380 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 27.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

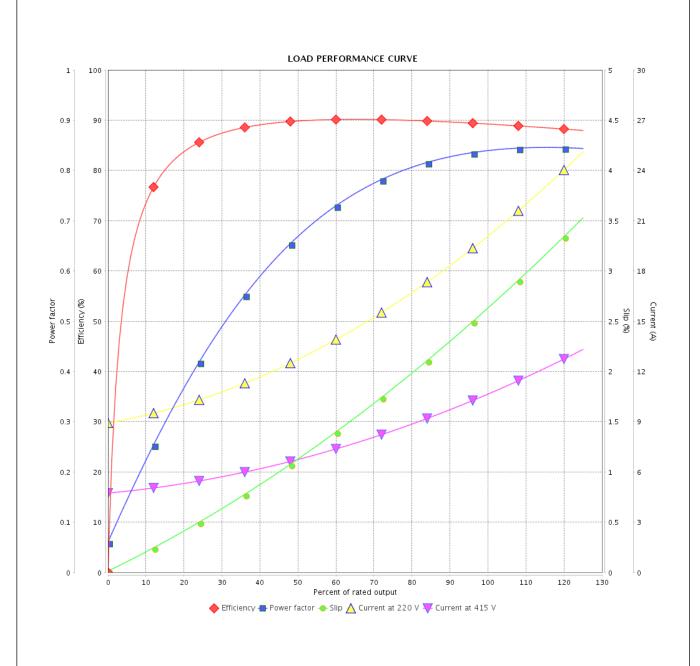
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12969542

Catalog #: 00718ET3E213JM-SG

7 / 16



Performance	: 220/415 V 50 Hz 4P				
Rated current	: 20.0/10.6 A	Moment of i	nertia (J)	: 0.9380 sq.ft.l	b
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 27.0 ft.lb	Insulation cl	ass	:F	
Locked rotor torque	: 220 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise Design		: 80 K	
Rated speed	: 1460 rpm			: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

## Three Phase Induction Motor - Squirrel Cage

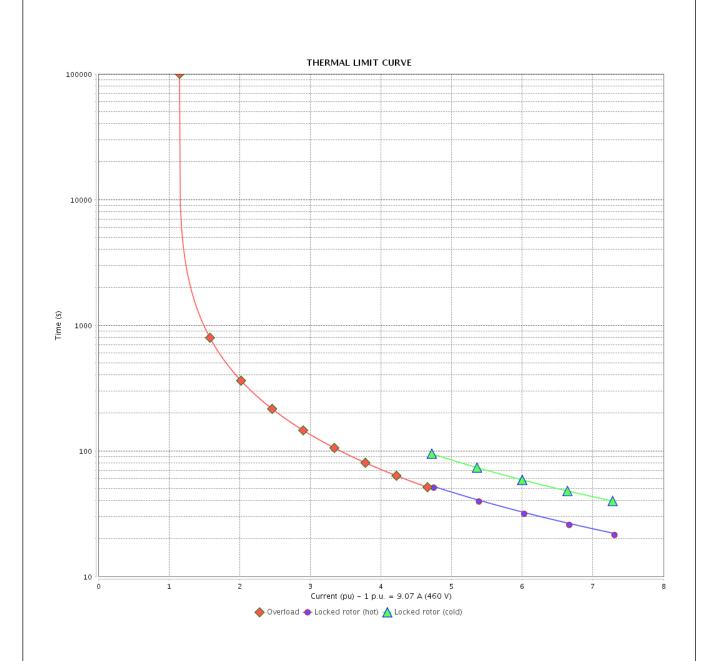


Customer	:					
Product line	: ·	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12969542	
	_	inciency Three-Phase	(	Catalog # :	00718ET3E2	13JM-SG
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 18 : 7.	3.1/9.07 A 3	Moment of Duty cycle	f inertia (J)	: 0.9380 sq.ft.l : Cont.(S1)	b
Rated torque	: 22	2.3 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		60 % 00 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		770 rpm	Design		: B	
Heating constant						
Cooling constant			Т			
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
D-/	40/04/0000	-			0.440	

## Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			9 / 16	

## Three Phase Induction Motor - Squirrel Cage

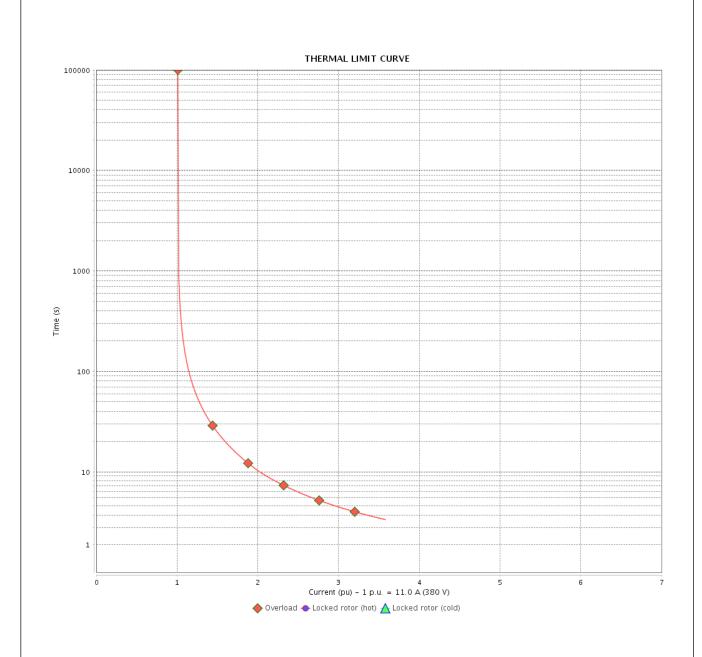


Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	12969542 00718ET3E213JM	
Performance	: 190/380 V 50 Hz 4P			
Rated current	: 22.0/11.0 A	Moment of inertia (J)	: 0.9380 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 27.1 ft.lb : 190 %	Insulation class	: F : 1.00	
Locked rotor torque Breakdown torque	: 250 %	Service factor Temperature rise	: 1.00 : 105 K	
Rated speed	: 1455 rpm	Design	: B	
Heating constant				
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by		,	,	
Checked by				evision
Data 13/0	1/2022		10 / 16	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			11 / 16	

## Three Phase Induction Motor - Squirrel Cage

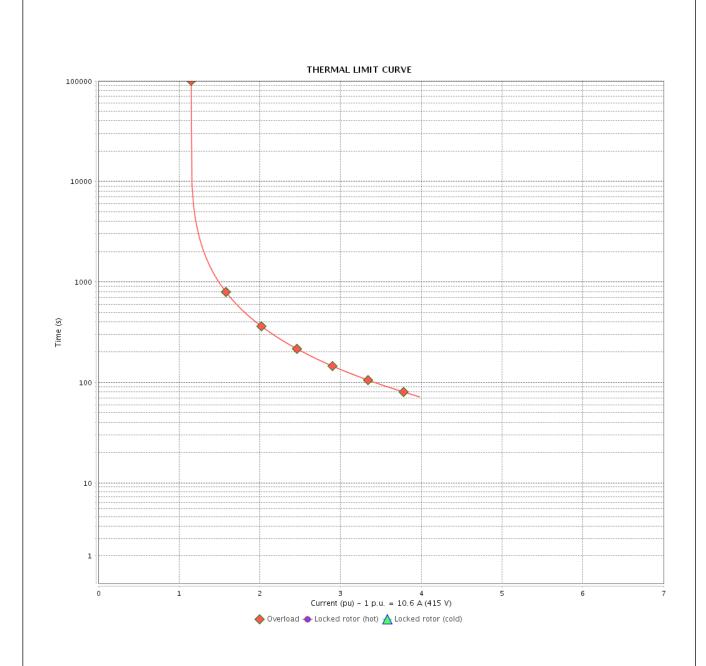


Customer	:					
Product line	: .	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12969542	
				Catalog # :	00718ET3E2	13JM-SG
Performance		20/415 V 50 Hz 4P				
Rated current LRC	: 20 : 6.	0.0/10.6 A .8	Moment of Duty cycle	f inertia (J)	: 0.9380 sq.ft.l : Cont.(S1)	b
Rated torque	: 27	7.0 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 80 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		460 rpm	Design		: B	
Heating constant						
Cooling constant		Change Course		Derf 1	Ohl !	Dete
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
- ·	40/04/0000	1			40.40	

### Three Phase Induction Motor - Squirrel Cage



Customer



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

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



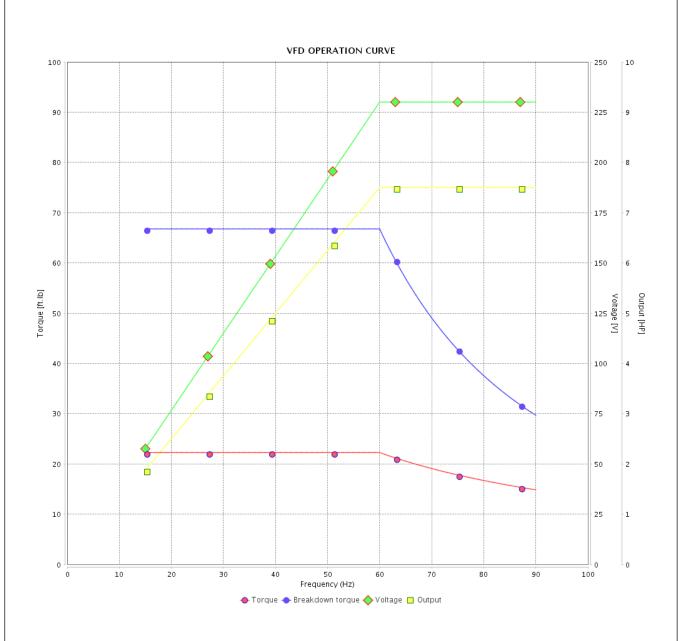
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12969542

Catalog #: 00718ET3E213JM-SG



				<del></del>			
Performance	: 230/460 V 60 Hz 4P						
Rated current LRC	: 18.1/9.07 A : 7.3	07 A Moment of inertia (J) Duty cycle		: 0.9380 sq.ft.lb : Cont.(S1)			
Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.3 ft.lb : 260 % : 300 % : 1770 rpm	Insulation class Service factor Temperature rise Design		: F : 1.15 : 80 K : B			
Rev.	Changes Summary	<u></u>	Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

14/16

13/04/2022

Date

## 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

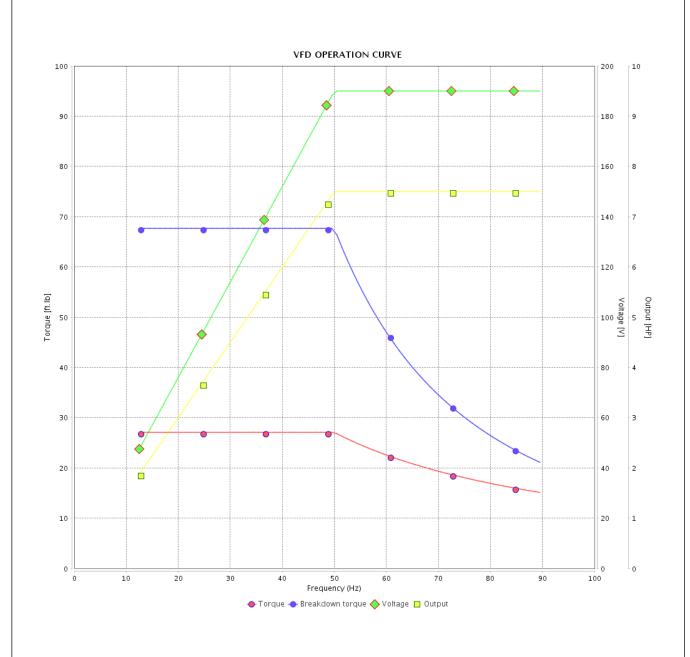
Product code: 12969542

Catalog #: 00718ET3E213JM-SG

Page

15 / 16

Revision



Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0/11.0 A : 6.2 : 27.1 ft.lb : 190 % : 250 % : 1455 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 0.9380 sq.ft.I : Cont.(S1) : F : 1.00 : 105 K : B	b
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

## 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

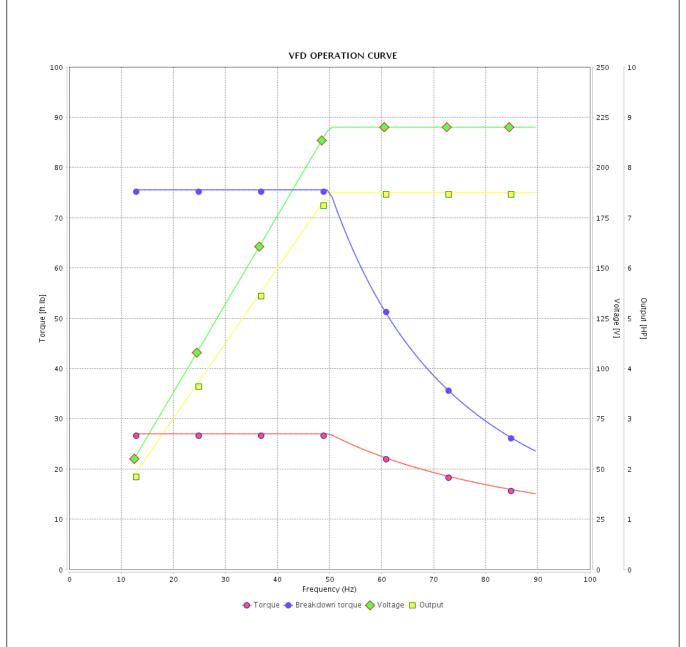
Product code: 12969542

Catalog #: 00718ET3E213JM-SG

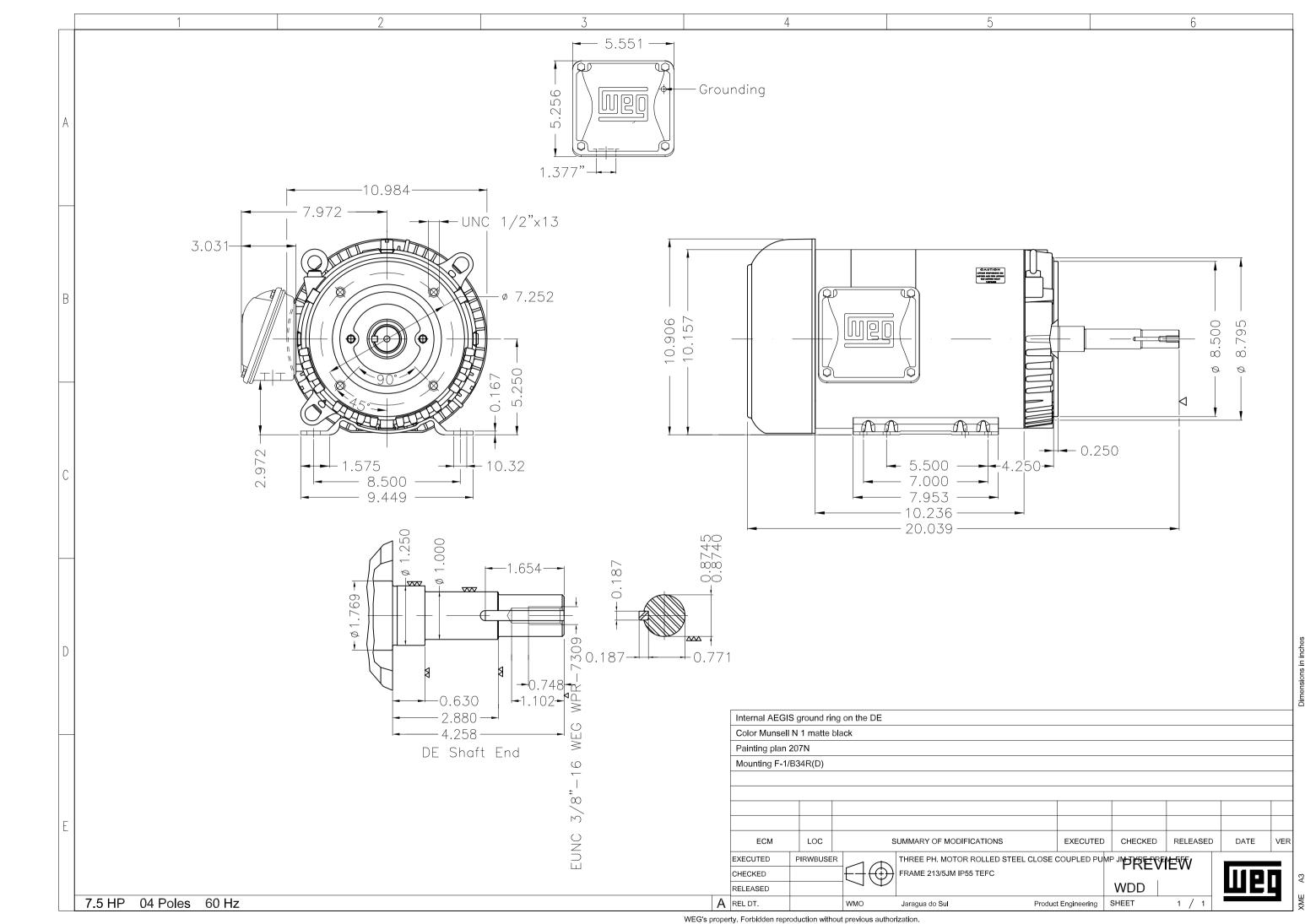
Page

16 / 16

Revision



Performance : 220/415 V 50 Hz 4P : 20.0/10.6 A Rated current Moment of inertia (J) : 0.9380 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.0 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by



¥ E V

3PT9

(**UL)**US LISTED

**&** Energy Verifi

> MODEL 00718ET3E213JM-SG 9 S/N 걒 2MAR2022

N01.TE0IC0X0N

12969542

MADE IN MÉXICO

1000 m.a.s.l 213/5JM CONT

18.1/9.07 230/460 20.8/10. 1.15

> P55 CODE SH SABLE @ 208V 20.1A F AT 80K

TEFC <del>0</del>

NSC

ZPM 3FA 냃 쌆

> 7.5HP 22.0-19.4/11.0-10.3A ALTERNATE RATING:

SF1.00 NCL 2

NOM EFF 91.7%

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 4:1 CT 1455RPM 50 Hz

ODE 6206-22

8209-ZZ

삠

IEC 60034-1

SF1.00

190-220/380-415V

**EFF 88.6%** 

MOBIL POLYREX EM

T6

T2-WHT T6-GRY

T4-YEL

r3-org T7-PNK T5-BLK 11-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

WARNING: Motor must be grounded in accordance with local

conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. and national electrical codes to prevent serious electrical

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

T8-RED RED T9-BRK