DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code:

Efficiency Three-Phase

Catalog #: 01018OT3E215JM-S

12676982

Frame : 213/5JM Cooling method : IC01 - ODP 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 : 130 lb

Design		: B	Moment of inertia (J)	: 1.30 sq.ft.lb
Output [HP]		10	10	10
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		24.8/12.4	29.8/14.9	27.2/14.4
L. R. Amperes [A]		174/86.8	191/95.4	193/102
LRC [A]		7.0x(Code H)	6.4x(Code G)	7.1x(Code H)
No load current [A]	12.0/5.99	11.8/5.89	12.2/6.45
Rated speed [RPN	/ 1]	1770	1460	1465
Slip [%]		1.67	2.67	2.33
Rated torque [ft.lb]		29.7	36.0	35.8
Locked rotor torque [%]		250	200	220
Breakdown torque [%]		350	250	280
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%	89.4	91.4	90.4
Efficiency (%)	50%	90.2	90.1	89.6
Lindicitely (70)	75%	91.0	89.7	89.8
	100%	91.7	88.1	88.7
	25%	0.38	0.45	0.41
Power Factor	50%	0.64	0.72	0.68
1 OWELL ACIOI	75%	0.77	0.82	0.80
	100%	0.83	0.87	0.85

Drive end Non drive end Foundation loads

Bearing type 6209 ZZ 6206 ZZ Max. traction : 501 lb Sealing Without Without Max. compression : 631 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 27.4A SF 1.00 SFA 27.4A

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.				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



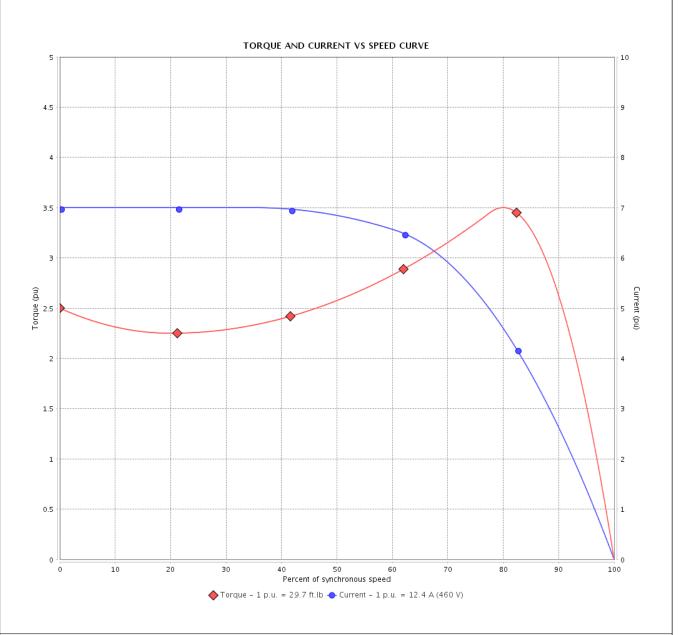
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676982

Catalog #: 01018OT3E215JM-S



Performance : 230/460 V 60 Hz 4P Rated current : 24.8/12.4 A Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 29.7 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2/16	

TORQUE AND CURRENT VS SPEED CURVE



Revision

Page

Three Phase Induction Motor - Squirrel Cage Customer Product line : JM Pump NEMA Premium Product code: 12676982 Efficiency Three-Phase Catalog #: 01018OT3E215JM-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. = 36.0 ft.lb ◆ Current - 1 p.u. = 14.9 A (380 V) Performance : 190/380 V 50 Hz 4P Rated current : 29.8/14.9 A Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Date Rev. **Changes Summary** Performed Checked

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



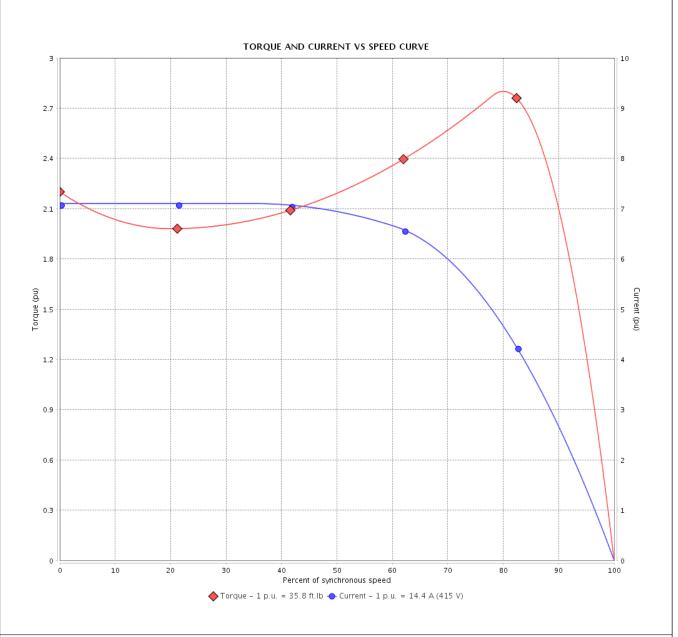
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676982

Catalog #: 01018OT3E215JM-S



Performance : 220/415 V 50 Hz 4P Rated current : 27.2/14.4 A Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 35.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



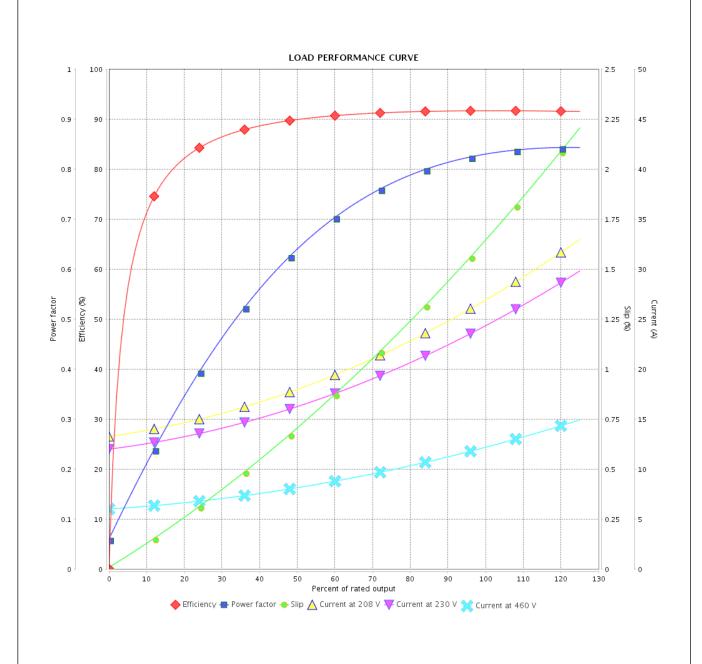
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676982

Catalog #: 01018OT3E215JM-S



Performance : 230/460 V 60 Hz 4P						
Rated current	: 2	24.8/12.4 A	Moment o	f inertia (J)	: 1.30 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	29.7 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	250 %	Service fa	ctor	: 1.15	
Breakdown torque		350 %	Temperati	Temperature rise		
Rated speed	: ′	1770 rpm	m Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				5 / 16	

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Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 16

Customer :

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Date

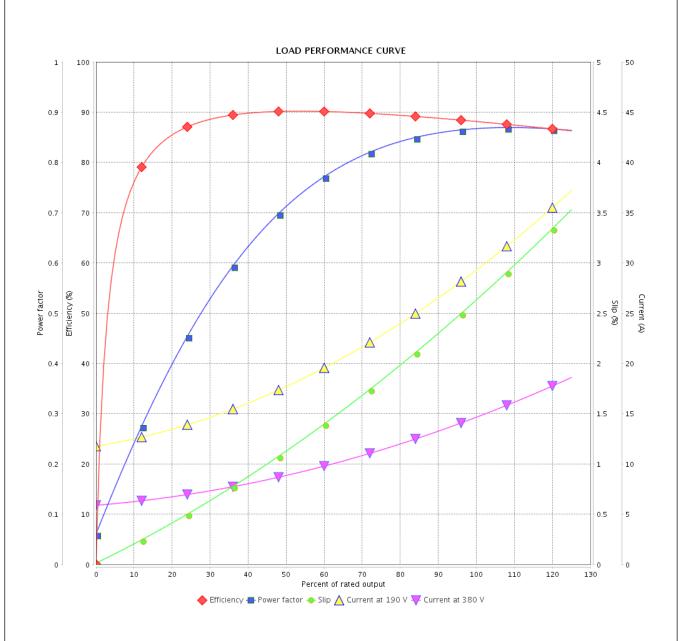
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676982

Catalog #: 01018OT3E215JM-S



Performance : 190/380 V 50 Hz 4P : 29.8/14.9 A Rated current Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



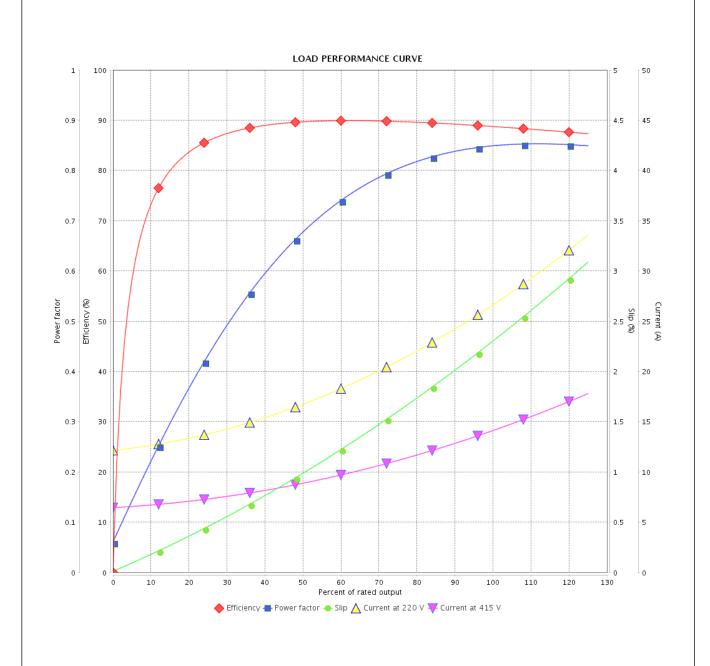
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676982

Catalog #: 01018OT3E215JM-S



Performance	: 22	220/415 V 50 Hz 4P				
Rated current	: 27	7.2/14.4 A	Moment o	f inertia (J)	: 1.30 sq.ft.lb	
LRC	: 7.	1	Duty cycle)	: Cont.(S1)	
Rated torque	: 38	5.8 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 22	20 %	Service fa	ctor	: 1.15	
Breakdown torqu	Breakdown torque : 280 %		Temperati	Temperature rise : 80 K		
Rated speed	: 14	165 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				7 / 16	

Three Phase Induction Motor - Squirrel Cage

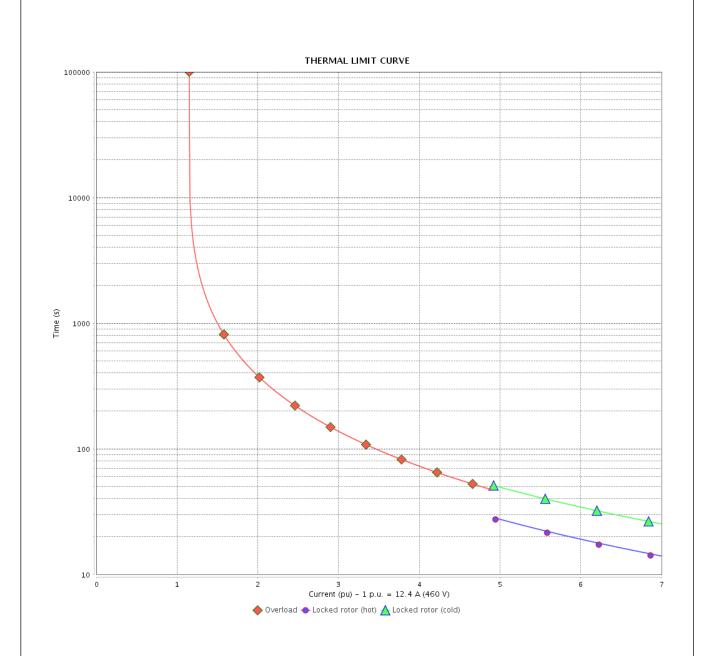


Customer	:					
Product line	: .	JM Pump NEMA Premium	1	Product code :	12676982	
	Ei	fficiency Three-Phase	(Catalog # :	01018OT3E2	15JM-S
					0101001022	
5		20/4003/40044 4D				
Performance Rated current		30/460 V 60 Hz 4P 4.8/12.4 A	Moment	f inertia (J)	: 1.30 sq.ft.lb	
LRC	. 22 : 7.		Duty cycle	i illertia (J)	: Cont.(S1)	
Rated torque		9.7 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		50 % 50 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		770 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by					Dogo	Povision:
Checked by	10/01/0007				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			9 / 16	

Three Phase Induction Motor - Squirrel Cage

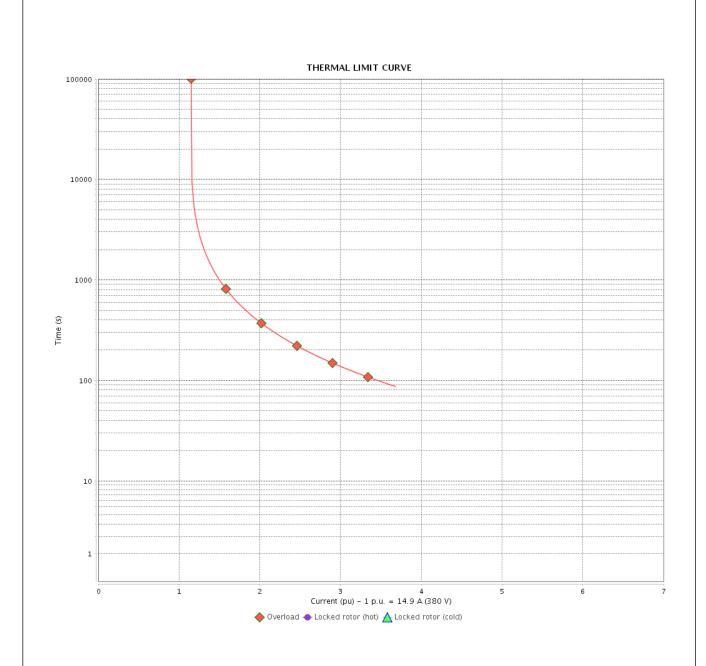


			
Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	12676982 01018OT3E215JM-S
			0.0.0010E2100W10
Performance	: 190/380 V 50 Hz 4P	Moment of inartic (1)	. 1 20 o~ # lb
Rated current LRC	: 29.8/14.9 A : 6.4	Moment of inertia (J) Duty cycle	: 1.30 sq.ft.lb : Cont.(S1)
Rated torque	: 36.0 ft.lb	Insulation class	: F
Locked rotor torque Breakdown torque	: 200 % : 250 %	Service factor Temperature rise	: 1.15 : 80 K
Rated speed	: 1460 rpm	Design	: B
Heating constant			
Cooling constant			
Rev.	Changes Summary	Performed	Checked Date
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Performed by			Dogo Desire
Checked by	1/2022		Page Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			11 / 16	

Three Phase Induction Motor - Squirrel Cage

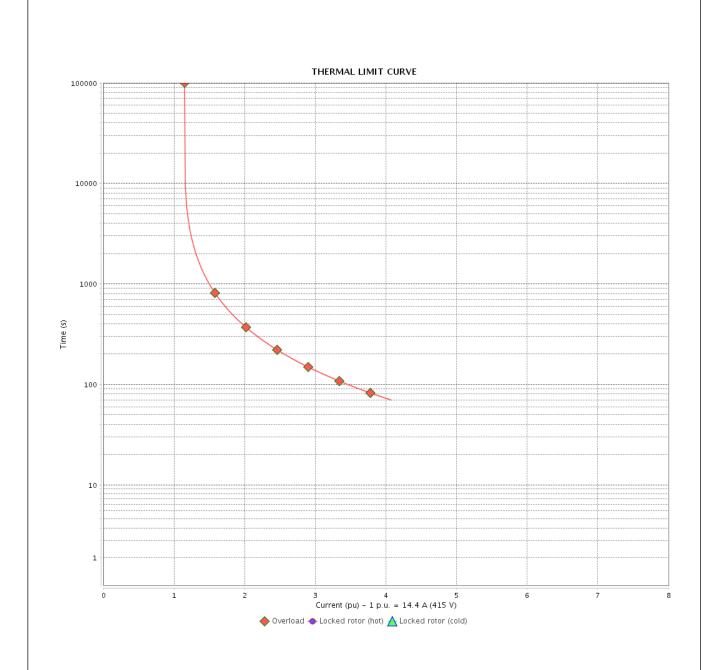


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676982	
		Emoleticy Three-Fridae		Catalog # :	01018OT3E2	15JM-S
Performance	:	220/415 V 50 Hz 4P				
Rated current		27.2/14.4 A	Moment o	of inertia (J)	: 1.30 sq.ft.lb	
LRC Rated torque		7.1 35.8 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	220 %	Service fa	ictor	: 1.15	
Breakdown torqu		280 %	Temperat	ure rise	: 80 K : B	
Rated speed		1465 rpm	Design		. Б	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	12/04/2022				12 / 16	

Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			13 / 16	

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

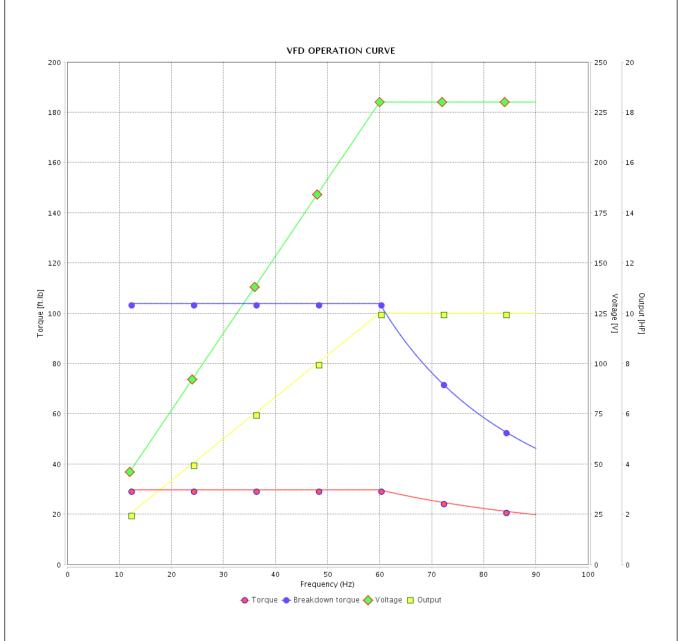
Product code: 12676982

Catalog #: 01018OT3E215JM-S

Page

14/16

Revision



	-1		1			
Performance		: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 24.8/12.4 A : 7.0 : 29.7 ft.lb : 250 % : 350 % : 1770 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.30 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary	/	Performed	Checked	Date
Performed by					·	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



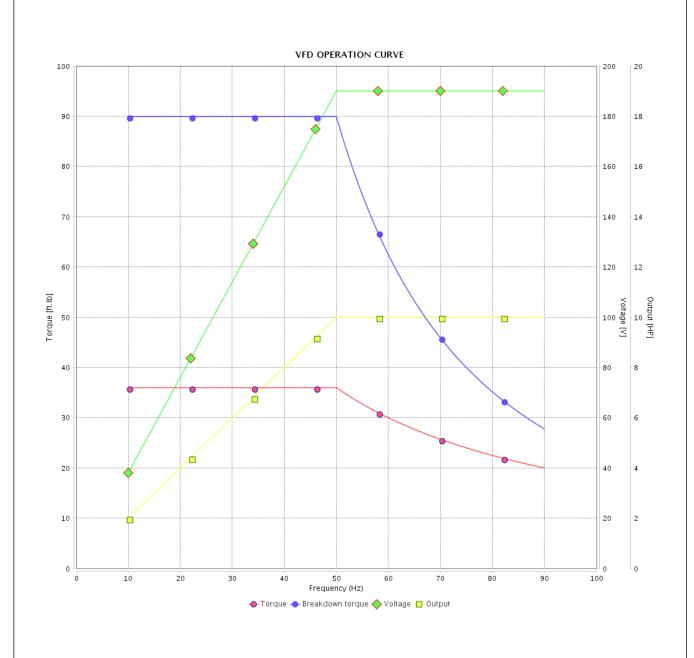
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676982

Catalog #: 01018OT3E215JM-S



Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.8/14.9 A : 6.4 : 36.0 ft.lb : 200 % : 250 % : 1460 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 1.30 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

15 / 16

12/04/2022

Date

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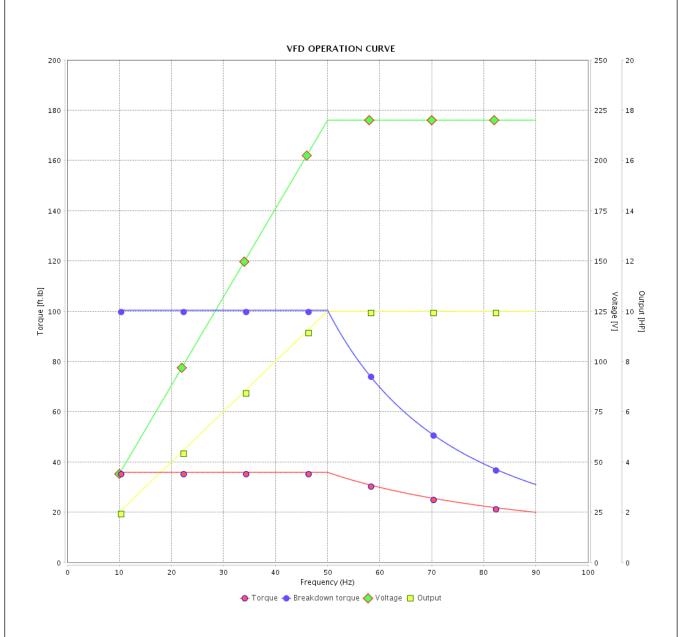
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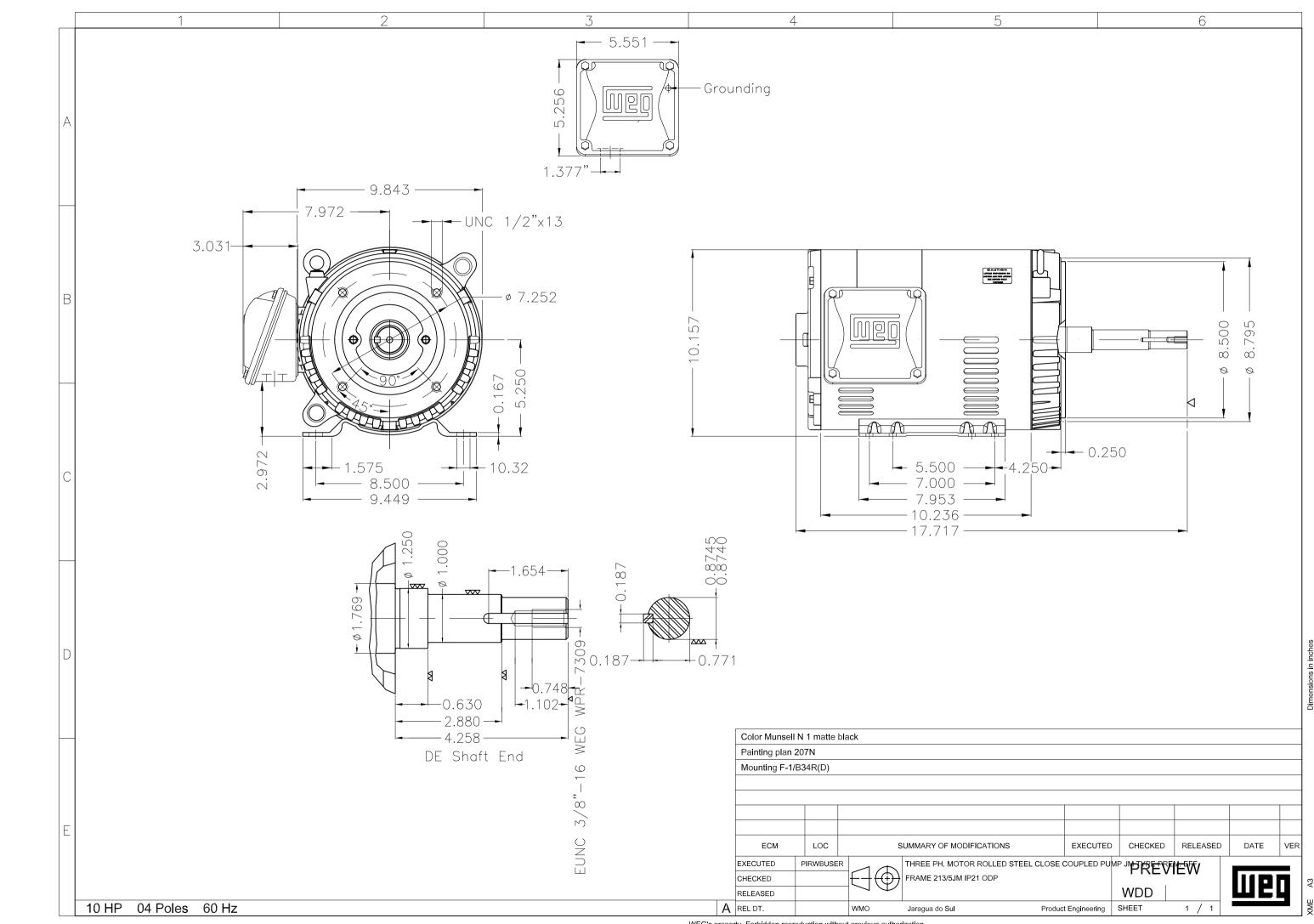
Page

16 / 16

Revision



Performance		: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 27.2/14.4 A : 7.1 : 35.8 ft.lb : 220 % : 280 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.30 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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3PT9

Energy Verifi

(**UL)**US LISTED

MODEL 010180T3E215JM-S N01.TODICOXON

12676982

MADE IN MÉXICO

077	HZ	3/5JM
Z	99	

_	13/5JM	CONT
ž		
90		

1000 m.a.s. AS CL F AT 80K

230/ 1.15

> 냃 쌆

> > 2°04 900

CODE DES SABLE @ 208V 27.4A

ZPM 50 Hz IOHD I

NOM EFF 1460RPM

29.8-26.4/14.9-14.0A

LTERNATE RATING:

SF1.00 INC. 2

IEC 6003

SF1.15

190-220/380-415V

EFF 88.1% 91.7%

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

8206-ZZ

ODE

8209-ZZ

MOBIL POLYREX EM

T6

T2-WHT

r3-org T5-BLK 1-BLU



NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



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

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