## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product code : 12687791

Efficiency Three-Phase

Catalog #: 00718OT3E213JM-SG

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

Insulation class : F Mounting : F-1
Duty cycle : Cont.(S1) Rotation¹ : Both (CV

Duty cycle : Cont.(S1) Rotation¹ : 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> : 127 lb

Design : B Moment of inertia (J) : 1.03 sq.ft.lb

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]		18.5/9.25	22.2/11.1	20.0/10.6
L. R. Amperes [A]		133/66.6	129/64.4	130/68.9
LRC [A]		7.2x(Code H)	5.8x(Code G)	6.5x(Code H)
No load current [A	]	8.79/4.39	8.64/4.32	8.88/4.71
Rated speed [RPN	<b>/</b> 1]	1770	1455	1460
Slip [%]		1.67	3.00	2.67
Rated torque [ft.lb]		22.3	27.1	27.0
Locked rotor torque [%]		240	170	190
Breakdown torque [%]		320	229	250
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%	88.6	90.4	89.6
Efficiency (%)	50%	89.5	88.9	88.6
Efficiency (70)	75%	90.2	88.5	88.7
	100%	91.0	86.7	87.4
	25%	0.39	0.46	0.42
Power Factor	50%	0.65	0.73	0.69
I OWEI FACIOI	75%	0.77	0.83	0.80
	100%	0.82	0.87	0.86

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

Bearing type : 6209 ZZ 6206 ZZ Max. traction : 317 lb Sealing : Without Without Max. compression : 444 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 20.5A SF 1.00 SFA 20.5A

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



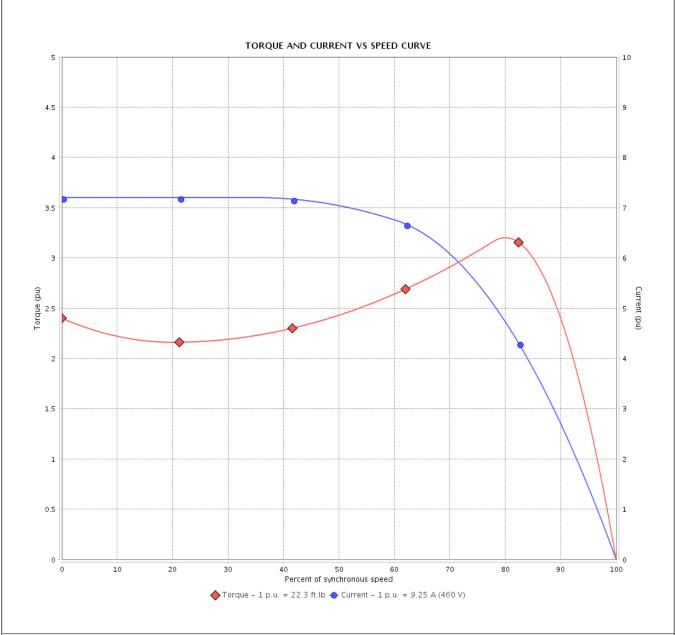
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687791

Catalog #: 00718OT3E213JM-SG



Performance : 230/460 V 60 Hz 4P Rated current : 18.5/9.25 A Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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## TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



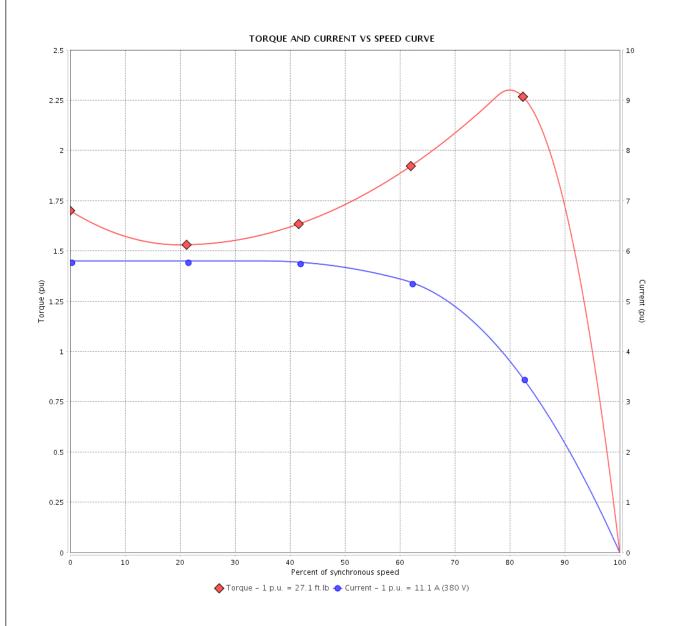
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687791

Catalog #: 00718OT3E213JM-SG



Performance : 190/380 V 50 Hz 4P Rated current : 22.2/11.1 A Moment of inertia (J) : 1.03 sq.ft.lb LRC : 5.8 Duty cycle : Cont.(S1) Rated torque : 27.1 ft.lb Insulation class : F Service factor Locked rotor torque : 170 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K : B Rated speed : 1455 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



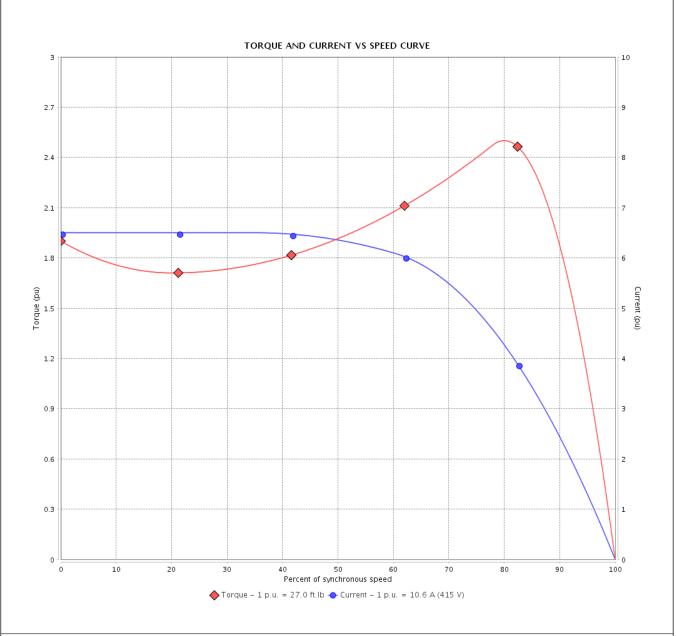
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687791

Catalog #: 00718OT3E213JM-SG



Performance : 220/415 V 50 Hz 4P Rated current : 20.0/10.6 A Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 27.0 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

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

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



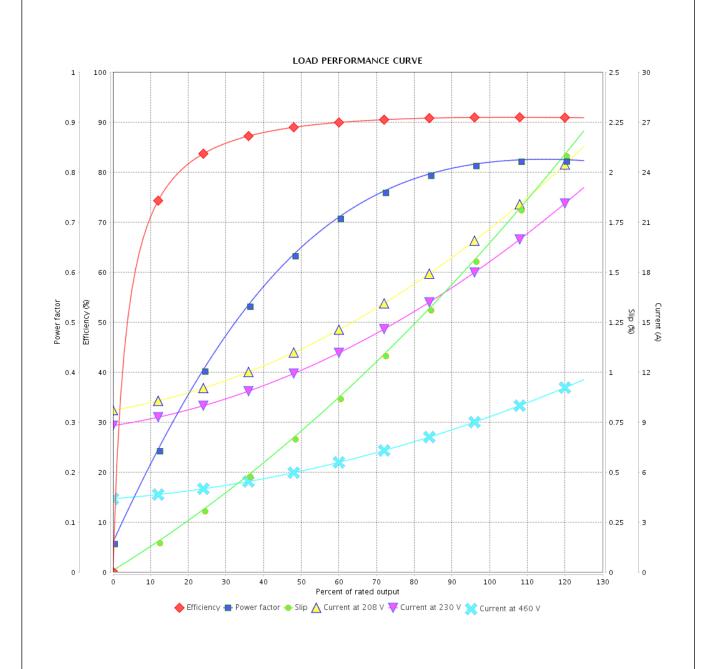
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687791

Catalog #: 00718OT3E213JM-SG



Performance	: 2	: 230/460 V 60 Hz 4P				
Rated current	: 1	8.5/9.25 A	Moment o	f inertia (J)	: 1.03 sq.ft.lb	
LRC	: 7	.2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	2.3 ft.lb	Insulation	class	: F	
Locked rotor torque :		40 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	320 % Temperature rise Design		ıre rise	: 80 K	
Rated speed	: 1			: B		
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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



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Date

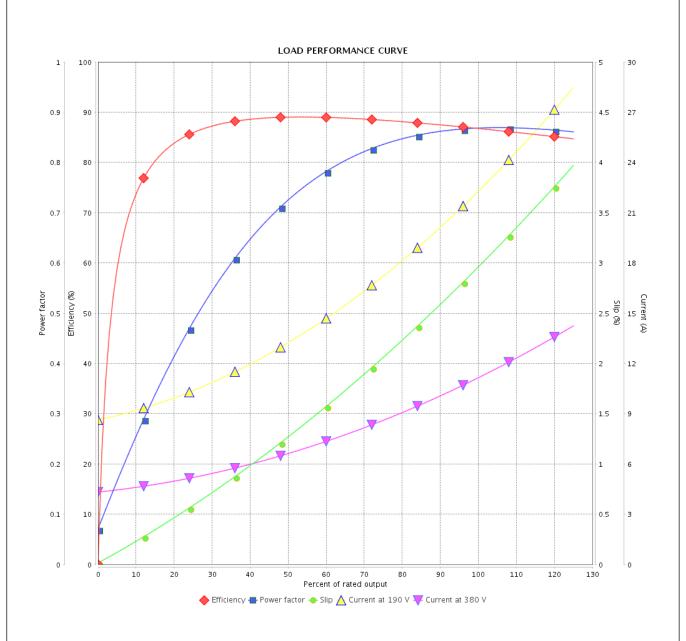
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687791

Catalog #: 00718OT3E213JM-SG



Performance : 190/380 V 50 Hz 4P : 22.2/11.1 A Rated current Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.1 ft.lb : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



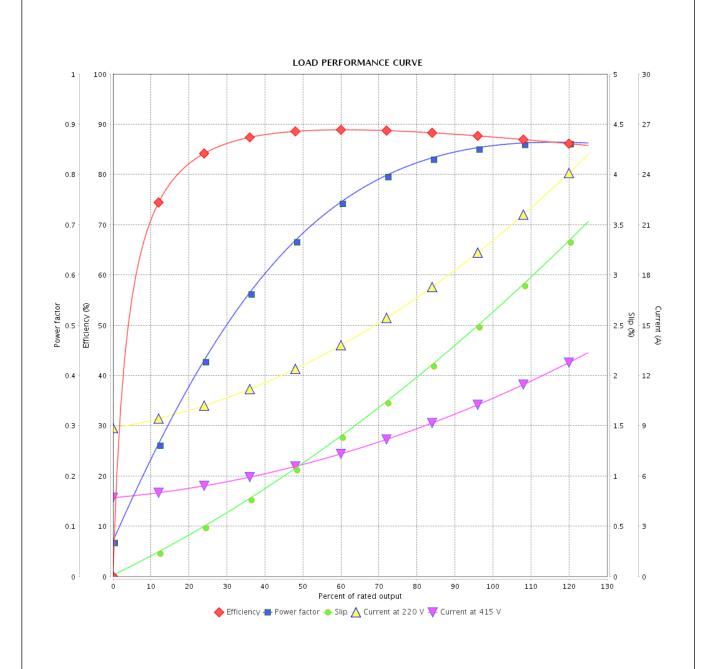
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

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Catalog #: 00718OT3E213JM-SG



Performance	rmance : 220/415 V 50 Hz 4P					
Rated current	::	20.0/10.6 A	Moment o	f inertia (J)	: 1.03 sq.ft.lb	
LRC	:	6.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	27.0 ft.lb	Insulation	class	: F	
Locked rotor torque		190 %	Service fa	ctor	: 1.15	
Breakdown torque	e ::	250 %	Temperati	Temperature rise		
Rated speed	:	1460 rpm	160 rpm Design		: B	
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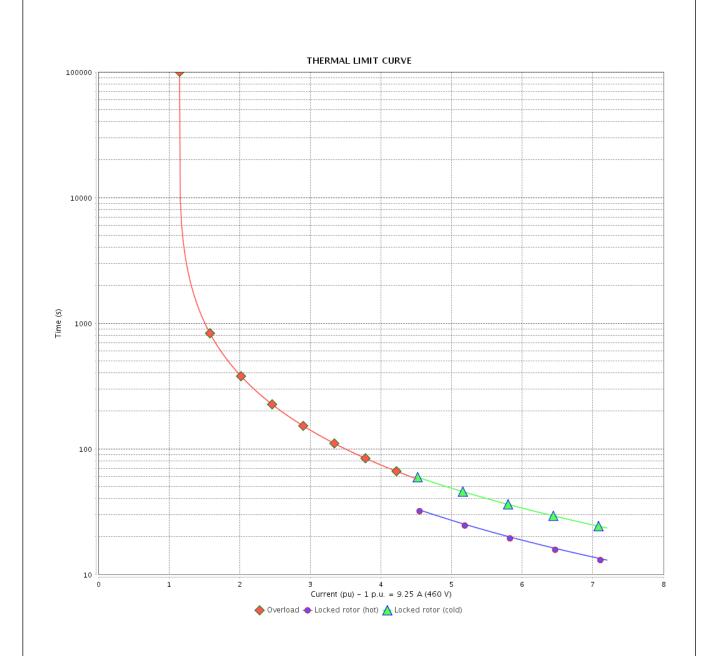


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Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12687791	
		<b>,</b>		Catalog # :	00718OT3E2	213JM-SG
Performance	:	230/460 V 60 Hz 4P				
Rated current		18.5/9.25 A	Moment o	of inertia (J)	: 1.03 sq.ft.lb	
LRC Rated torque		7.2 22.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	240 %	Service fa	ictor	: 1.15	
Breakdown torqu	ie :	320 %	Temperati	ure rise	: 80 K	
Rated speed		1770 rpm	Design		: B	
Heating constant						
Cooling constant	•					
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## Three Phase Induction Motor - Squirrel Cage



Customer



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## Three Phase Induction Motor - Squirrel Cage

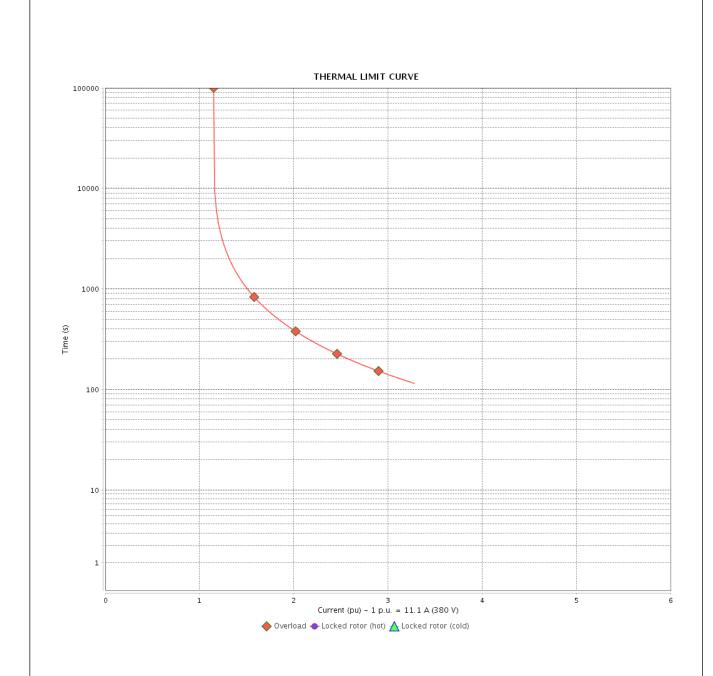


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Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	12687791 00718OT3E2	13 IM SC
		Catalog # .	007 16O 13E2	133101-3G
Performance	: 190/380 V 50 Hz 4P			
Rated current LRC	: 22.2/11.1 A : 5.8	Moment of inertia (J) Duty cycle	: 1.03 sq.ft.lb : Cont.(S1)	
Rated torque	: 27.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 170 %	Service factor	: 1.15	
Breakdown torque Rated speed	: 229 % : 1455 rpm	Temperature rise Design	: 80 K : B	
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Heating constant				
Cooling constant  Rev.	Changes Summary	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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## Three Phase Induction Motor - Squirrel Cage

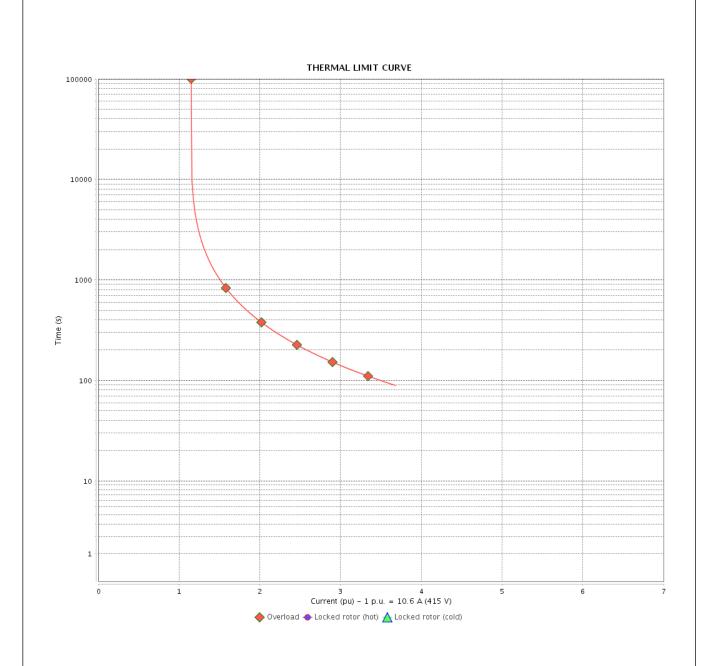


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Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12687791	
		Emoleticy Three-i mase		Catalog # :	00718OT3E2	13JM-SG
Performance	:	220/415 V 50 Hz 4P				
Rated current		20.0/10.6 A	Moment o	of inertia (J)	: 1.03 sq.ft.lb	
LRC	:	6.5	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		27.0 ft.lb 190 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		250 %	Temperat		: 80 K	
Rated speed		1460 rpm	Design		: B	
Heating constant						
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage



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# VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

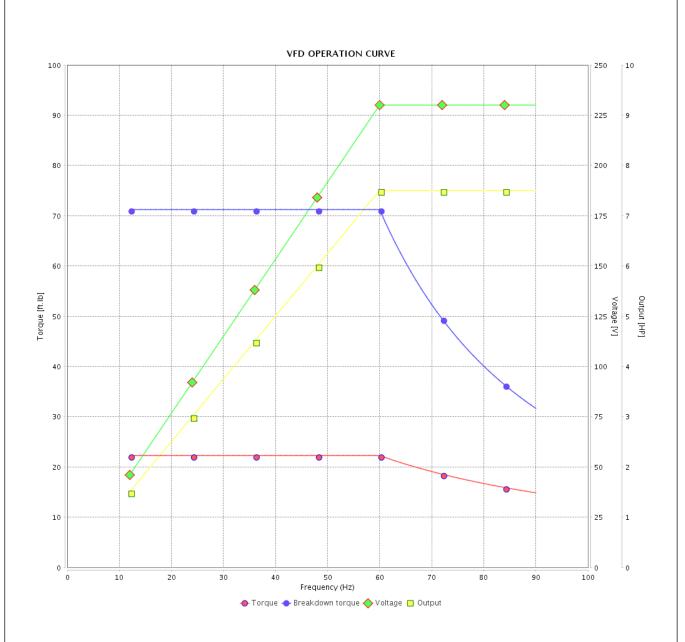
Product code: 12687791

Catalog #: 00718OT3E213JM-SG

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Performance : 230/460 V 60 Hz 4P : 18.5/9.25 A Rated current Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

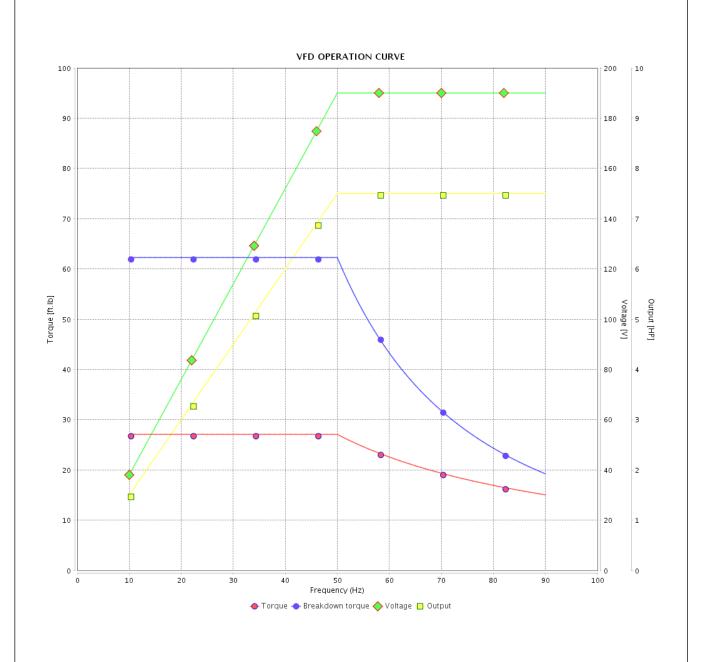
Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687791

Catalog #: 00718OT3E213JM-SG

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Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.2/11.1 A : 5.8 : 27.1 ft.lb : 170 % : 229 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



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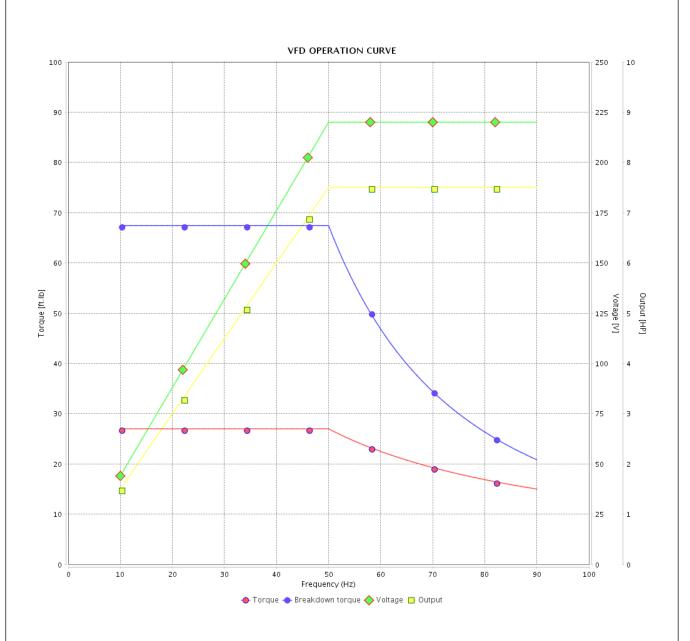
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Product line : JM Pump NEMA Premium

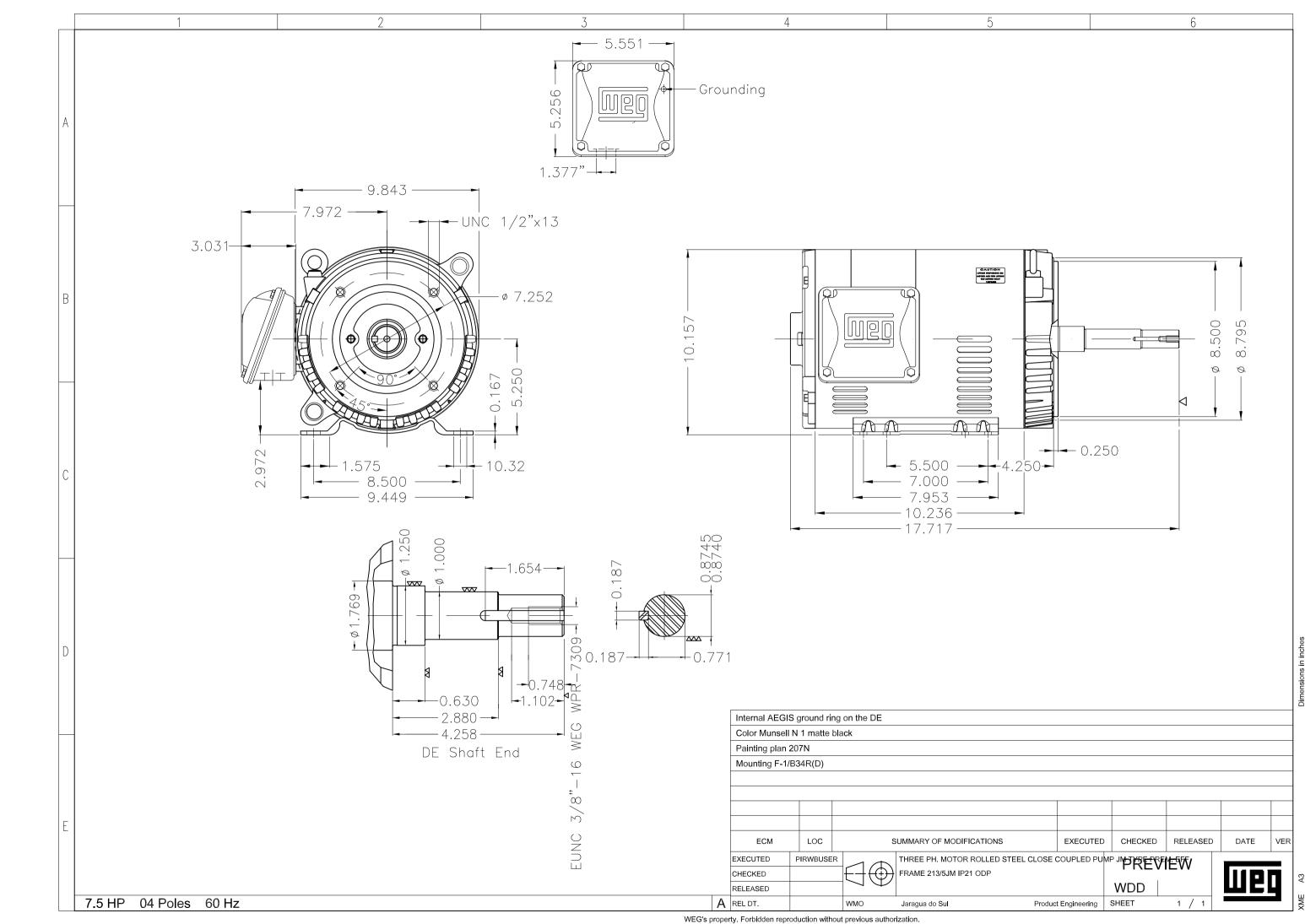
Efficiency Three-Phase

Product code: 12687791

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Performance : 220/415 V 50 Hz 4P : 20.0/10.6 A Rated current Moment of inertia (J) : 1.03 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 : 27.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % 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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S S S Energy Verifi

> MODEL 007180T3E213JM-SG 9 S/N 걒 9APR2022

CC029A

12687791

MADE IN MÉXICO

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

18.5/9.25

230/460 1.15

> CODE DES F AT 80K

2°04 900

SCL

7.5HP SABLE @ 208V 20.5A ALTERNATE RATING:

SF1.00 INC. 2

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT NOM. EFF 91.0% 1455RPM 50 Hz 6206-ZZ

22.2-19.6/11.1-10.4A

IEC 60034-1

SF1.15

190-220/380-415V

**EFF 88.7%** 

ODE

8209-ZZ

牌

MOBIL POLYREX EM

T6

T2-WHT

11-BLU

T4-YEL

r3-org





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

