DATA SHEET

Three Phase Induction Motor - Squirrel Cage



53.0 dB(A)

88.0

87.0

87.4

86.0

0.36

0.61

0.73

0.79

: 254 lb

: 391 lb

Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676988

Catalog #: 00512OT3E215JM-S Frame : 213/5JM Cooling method : IC01 - ODP Insulation class Mounting : F-1 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. weight³ : 137 lb : 1.08 sq.ft.lb Moment of inertia (J) Design : B Output [HP] 5 5 5 Poles 6 6 6 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 220/415 190/380 Rated current [A] 13.5/6.74 16.3/8.16 14.8/7.86 L. R. Amperes [A] 79.5/39.8 73.4/36.7 74.1/39.3 LRC [A] 5.9x(Code H) 4.5x(Code E) 5.0x(Code F) No load current [A] 7.10/3.55 7.00/3.50 7.21/3.82 Rated speed [RPM] 1175 960 965 Slip [%] 2.08 4.00 3.50 Rated torque [ft.lb] 22.3 27.4 27.2 Locked rotor torque [%] 220 160 190 Breakdown torque [%] 250 190 210 Service factor 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K 0s (cold) 0s (hot) Locked rotor time 52s (cold) 29s (hot) 0s (cold) 0s (hot)

53.0 dB(A)

89.2

87.5

87.2

85.1

0.40

0.66

0.76

 100%
 0.77
 0.81

 Drive end Bearing type
 Drive end Scale Search
 Non drive end Scale Search
 Foundation loads

 Max. traction
 Max. traction

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

Bearing Seal Bearing Seal

55.0 dB(A)

88.3

88.5

89.5

89.5

0.34

0.58

0.70

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

Notes

Noise level²

Efficiency (%)

Power Factor

USABLE @208V 14.9A SF 1.00 SFA 14.9A

25%

50%

75%

100%

25%

50%

75%

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



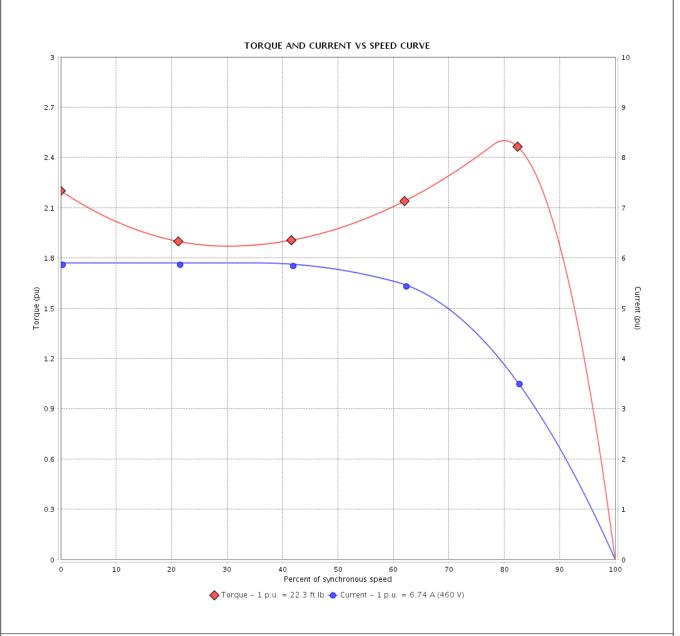
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676988

Catalog #: 00512OT3E215JM-S



Performance : 230/460 V 60 Hz 6P Rated current : 13.5/6.74 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 52s (cold) 29s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : JM Pump NEMA Premium Product code: 12676988 Efficiency Three-Phase Catalog #: 00512OT3E215JM-S TORQUE AND CURRENT VS SPEED CURVE 4.5 1.8 3.5 1.4 1.2 Torque (pu) 0.8 0.4 0.2 Percent of synchronous speed ◆ Torque - 1 p.u. = 27.4 ft.lb ◆ Current - 1 p.u. = 8.16 A (380 V) Performance : 190/380 V 50 Hz 6P Rated current : 16.3/8.16 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 4.5 Duty cycle : Cont.(S1) : 27.4 ft.lb Insulation class Rated torque : F : 160 % Locked rotor torque Service factor : 1.15 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 960 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



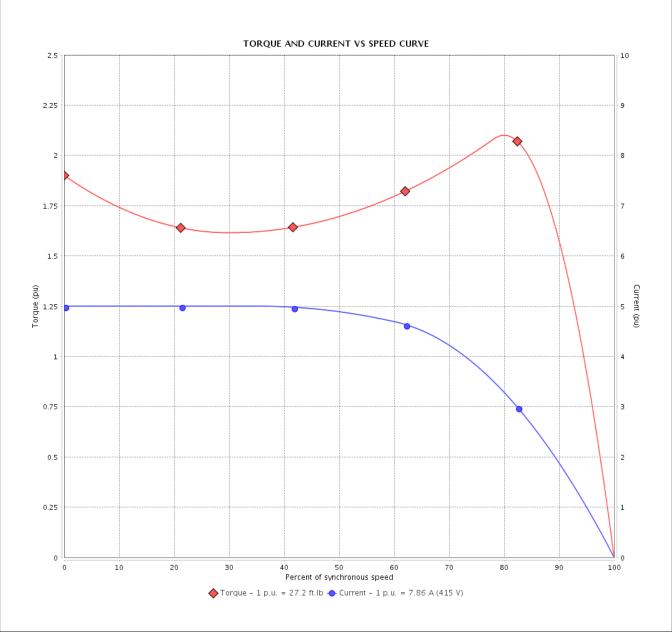
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676988

Catalog #: 00512OT3E215JM-S



Performance : 220/415 V 50 Hz 6P Rated current : 14.8/7.86 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 27.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 965 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



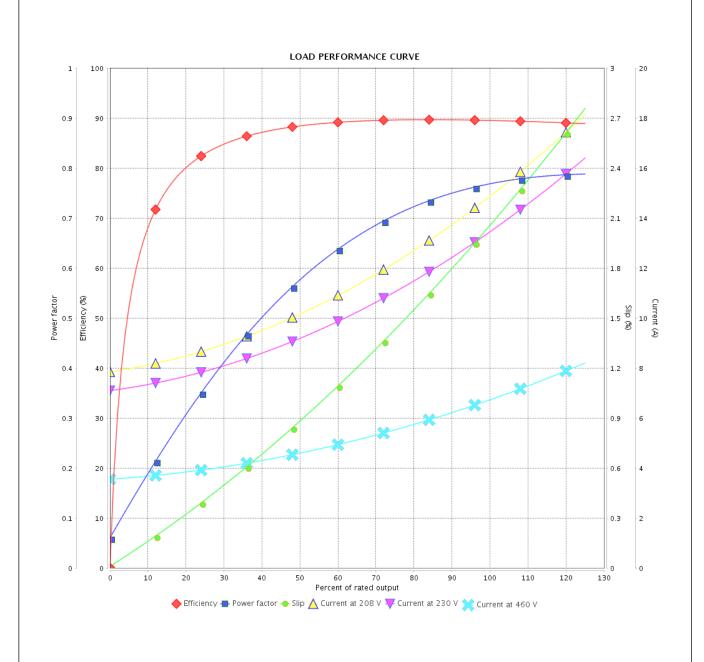
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676988

Catalog #: 00512OT3E215JM-S



Performance	: 230/460	V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Duty cycles Insulation Services Tempera	n class	: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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LOAD PERFORMANCE CURVE

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Customer :

Checked by

Date

12/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

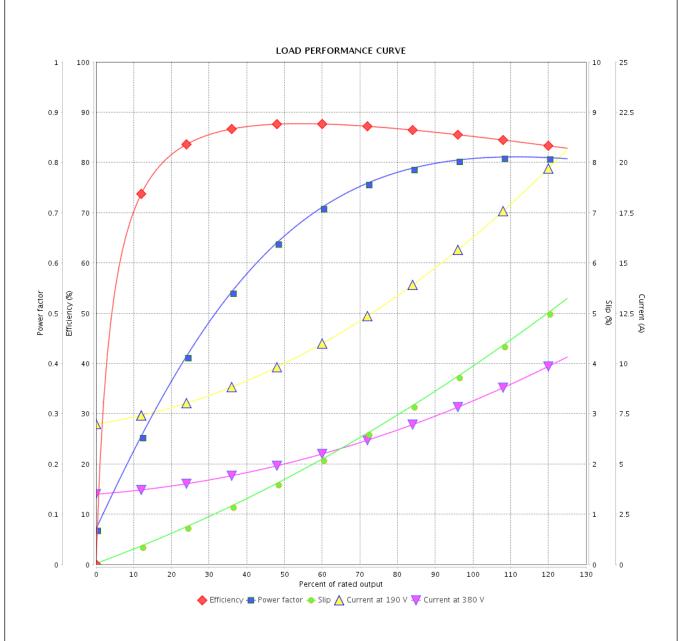
Product code: 12676988

Catalog #: 00512OT3E215JM-S

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Performance	:	190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	16.3/8.16 A 4.5 27.4 ft.lb 160 % 190 % 960 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



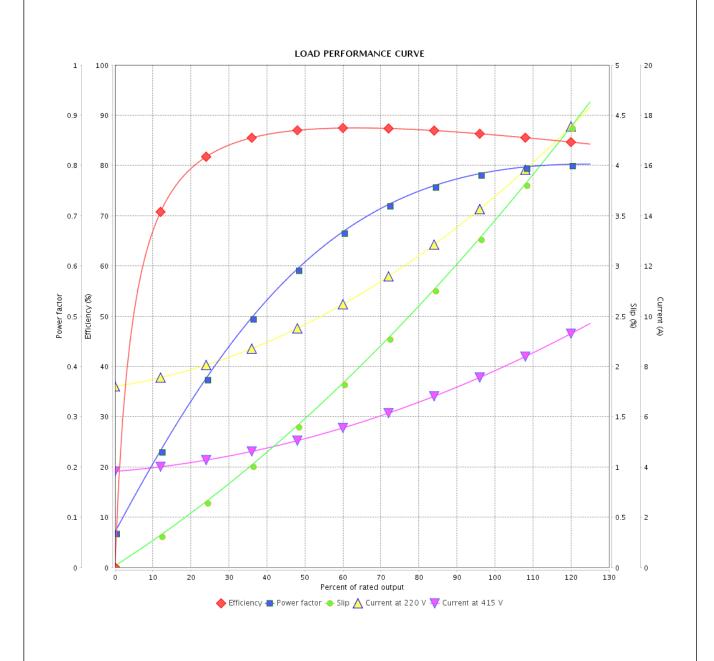
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676988

Catalog #: 00512OT3E215JM-S



Performance	: 2	20/415 V 50 Hz 6P				
Rated current	: 1	4.8/7.86 A	Moment of	f inertia (J)	: 1.08 sq.ft.lb	
LRC	: 5	5.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	7.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 1	90 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	10 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	165 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

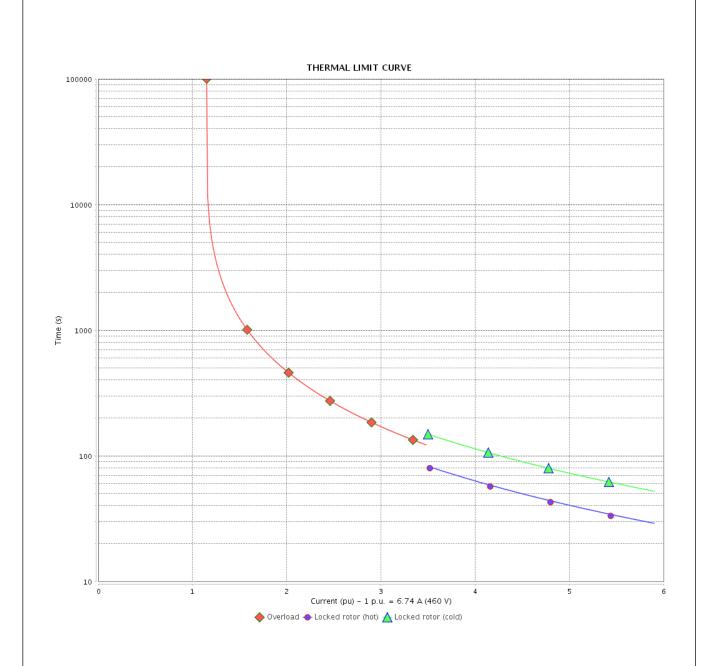


Customer		:				
Dec Letter		IM D NEMA D		Decident and a	40070000	
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676988	
		,		Catalog # :	00512OT3E2	215JM-S
Performance	:	230/460 V 60 Hz 6P				
Rated current	:	13.5/6.74 A	Moment o	of inertia (J)	: 1.08 sq.ft.lb	
LRC Rated torque		5.9 22.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torg		220 %	Service fa		. г : 1.15	
Breakdown torqu	ie :	250 %	Temperati		: 80 K	
Rated speed	:	1175 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

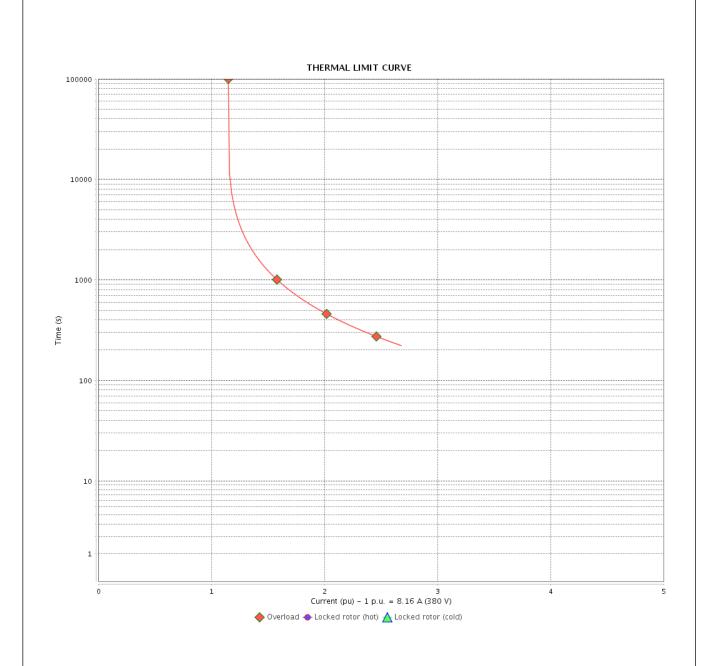


Customer	:					
D 1 1"				D	4007000	
Product line	: E	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676988	
	_			Catalog # :	00512OT3E2	215JM-S
Performance		90/380 V 50 Hz 6P				
Rated current LRC	: 1 : 4	6.3/8.16 A	Moment o Duty cycle	f inertia (J)	: 1.08 sq.ft.lb : Cont.(S1)	
Rated torque	: 2	27.4 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		60 % 90 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		960 rpm	Design	are rise	: B	
Heating constan						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

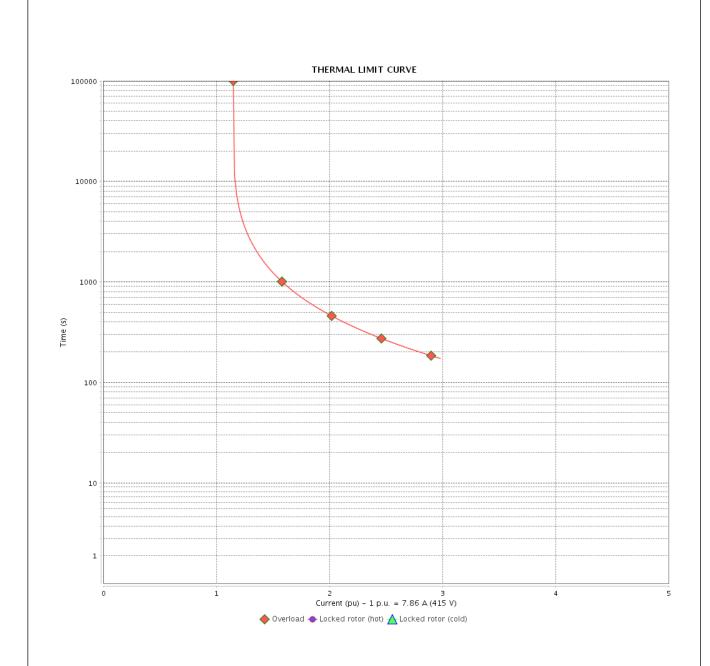


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Post of the	IM D NEMA D		B. J. J. J.	10070000	
Product line	: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676988	
	,.		Catalog # :	00512OT3E2	215JM-S
Performance	: 220/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque	: 14.8/7.86 A : 5.0 : 27.2 ft.lb : 190 %	Duty cycle Insulation Service fa	class actor	: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torque Rated speed	: 210 % : 965 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

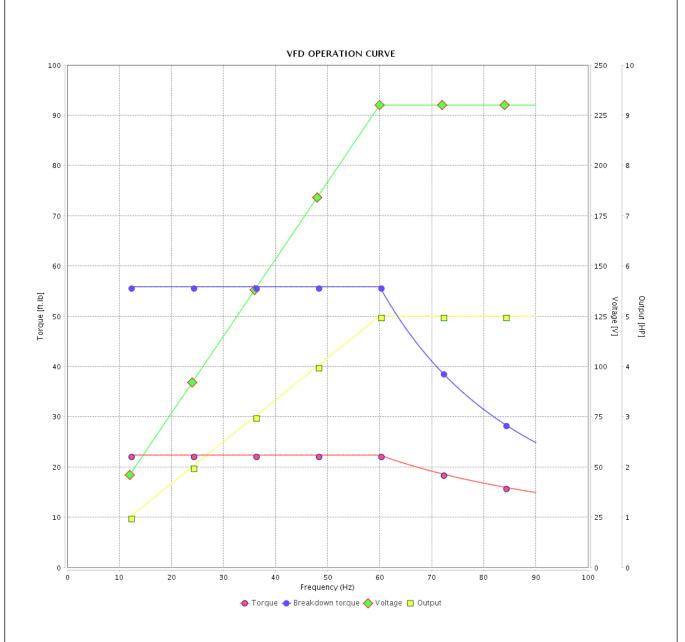
12/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676988

Catalog #: 00512OT3E215JM-S



Performance : 230/460 V 60 Hz 6P : 13.5/6.74 A Rated current Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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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

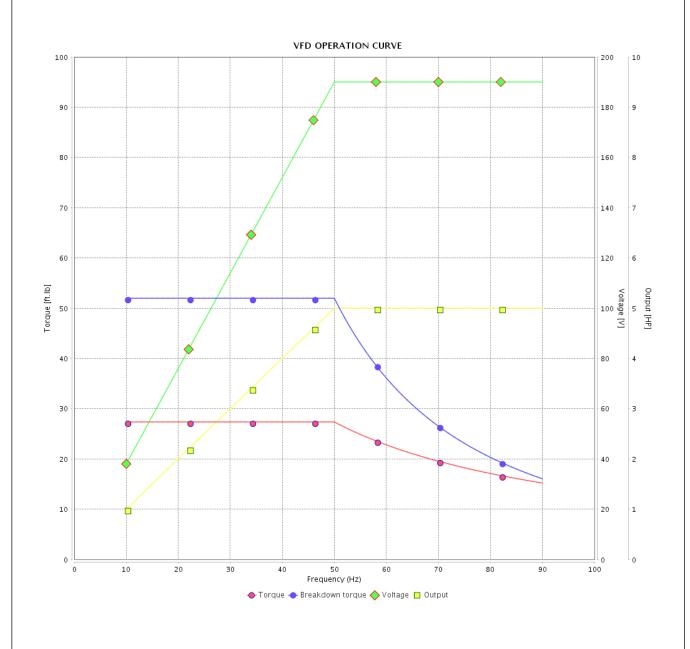
Product code: 12676988

Catalog #: 00512OT3E215JM-S

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Performance	: 19	90/380 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4. : 2' que : 1 ue : 1!	6.3/8.16 A .5 7.4 ft.lb 60 % 90 % 60 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	: Cont.(S1) : F : 1.15 : 80 K	
Rev.	Changes Summary			Performed	Checked	Date	
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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

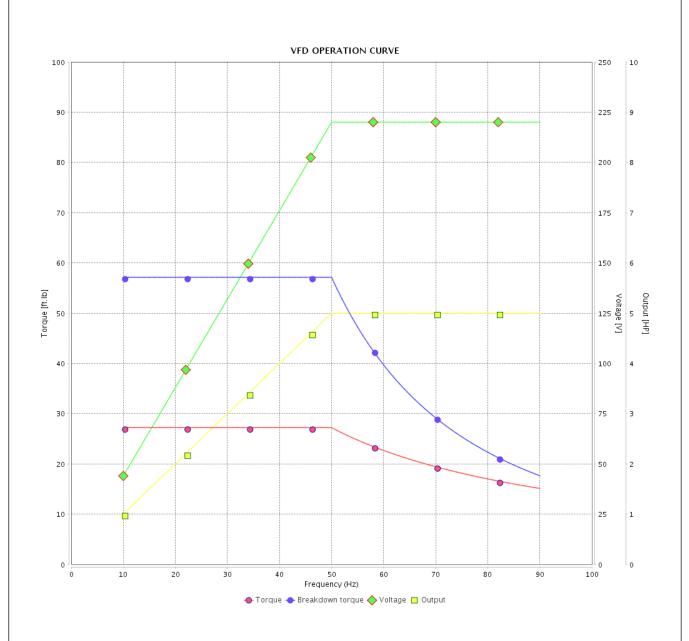
Product code: 12676988

Catalog #: 00512OT3E215JM-S

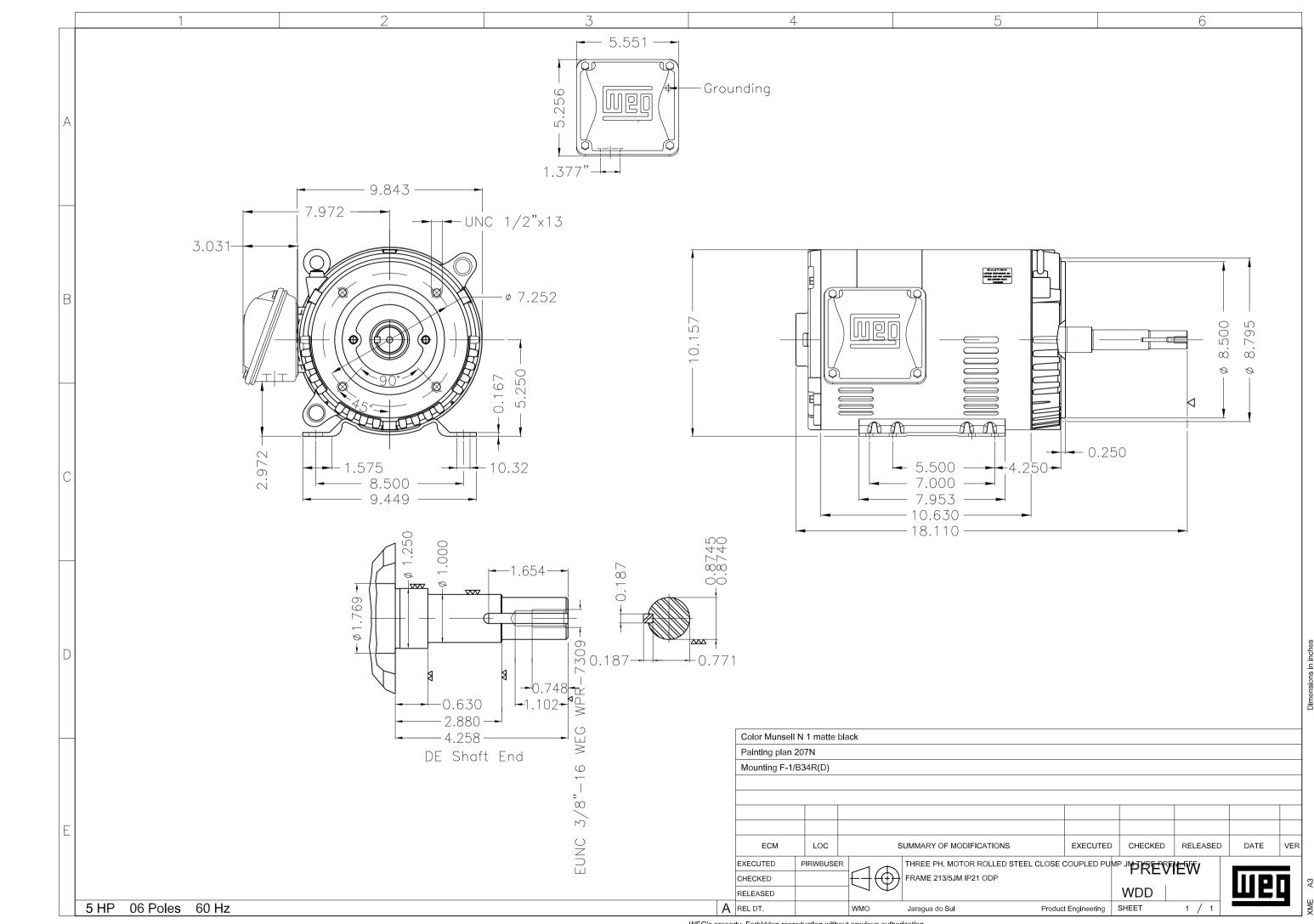
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Performance		: 220/415 V 50 Hz 6P							
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 14.8/7.86 A : 5.0 : 27.2 ft.lb : 190 % : 210 % : 965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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3PT9

(**UL)**US LISTED

Energy Verifi

MODEL 005120T3E215JM-S S/N 3JAN2022

N01.TODICOXON

12676988

MADE IN MÉXICO

9 걒 213/5JM CONT

DES 1000 m.a.s.l F AT 80K 2°04 900

S

13.5/6.74 15.5/7.75 230/460 1.15

> CODE SABLE @ 208V 14.9A

ZPM 3FA 냃 쌆

> 5.0HP LTERNATE RATING:

SF1.00 NCL 2

NOM EFF

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 960RPM 50 Hz 8206-ZZ

18.3-14.6/8.16-7.74A

IEC 60034-1

SF1.15

190-220/380-415V

EFF 85.1% 89.5%

MOBIL POLYREX EM

ODE

8209-ZZ

牌

T6

T6-GRY T8-RED RED

T2-WHT

T4-YEL

r3-org T7-PNK T9-BRK T5-BLK 1-BLU





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