DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product code :

Efficiency Three-Phase

Catalog # : 00212OT3E184JM-S

12676986

Frame : 182/4JM Cooling method : IC01 - ODP

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 74.7 lb

Design : B Moment of inertia (J) : 0.2800 sq.ft.lb

Design		: B	Moment of inertia (J)	: 0.2800 sq.ft.lb
Output [HP]		2	2	2
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		5.90/2.95	6.96/3.48	6.41/3.40
L. R. Amperes [A]		38.9/19.5	35.5/17.7	36.6/19.4
LRC [A]		6.6x(Code J)	5.1x(Code G)	5.7x(Code H)
No load current [A	.]	3.42/1.71	3.37/1.69	3.50/1.86
Rated speed [RPI	Л]	1165	945	950
Slip [%]		2.92	5.50	5.00
Rated torque [ft.lb]		9.02	11.1	11.1
Locked rotor torqu	ie [%]	200	160	190
Breakdown torque	: [%]	300	220	250
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		59s (cold) 33s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
	25%	84.4	86.1	84.6
Efficiency (%)	50%	85.5	84.8	84.0
Lindicity (70)	75%	86.5	84.9	85.0
	100%	87.5	83.0	83.8
	25%	0.30	0.36	0.32
Power Factor	50%	0.53	0.61	0.56
1 OWELL ACTOR	75%	0.66	0.73	0.69
	100%	0.73	0.79	0.76

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

Bearing type : 6207 ZZ 6205 ZZ Max. traction : 139 lb Sealing : Without Without Max. compression : 214 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 6.52A SF 1.00 SFA 6.52A

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



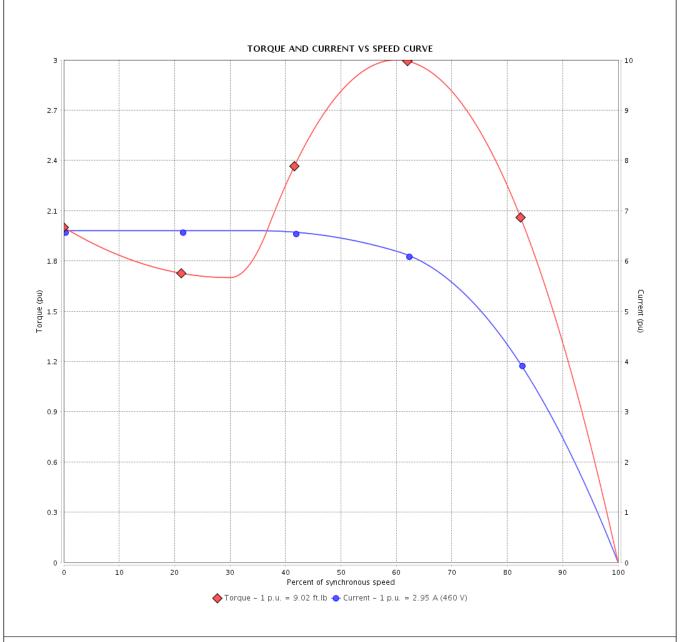
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676986

Catalog #: 00212OT3E184JM-S



Performance : 230/460 V 60 Hz 6P Rated current : 5.90/2.95 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : F : 9.02 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 200 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B

Locked rotor time : 59s (cold) 33s (hot)

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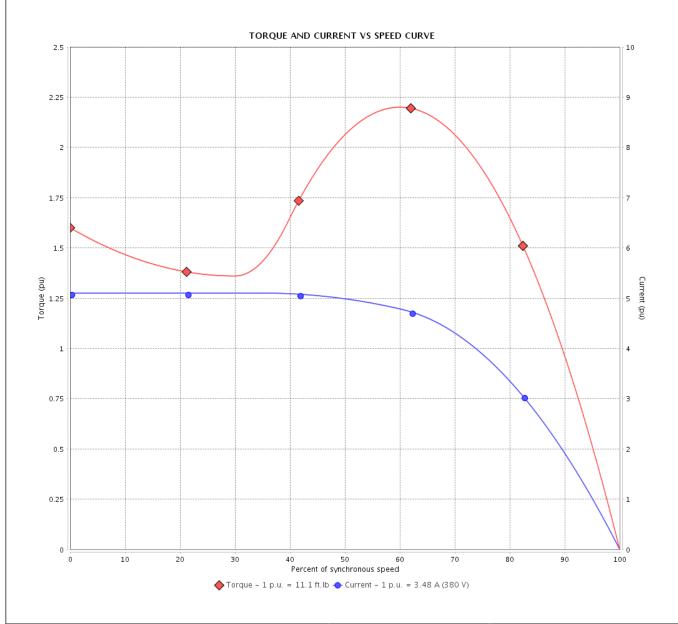
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Product line : JM Pump NEMA Premium

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Product code: 12676986

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Performance : 190/380 V 50 Hz 6P Rated current : 6.96/3.48 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 11.1 ft.lb : 1.00 Locked rotor torque : 160 % Service factor Breakdown torque : 220 % Temperature rise : 105 K : B Rated speed : 945 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

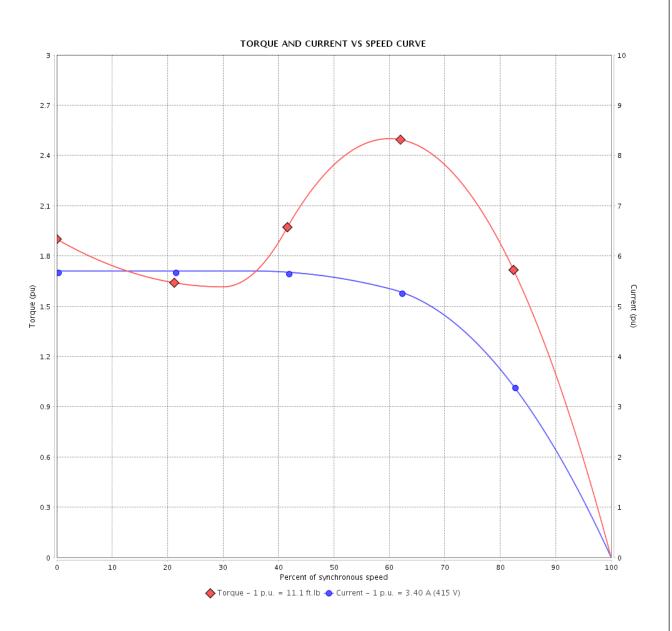


Customer :

Product line : JM Pump NEMA Premium Product code : 12676986

Efficiency Three-Phase

Catalog # : 00212OT3E184JM-S



Performance : 220/415 V 50 Hz 6P Rated current : 6.41/3.40 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 11.1 ft.lb Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 950 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



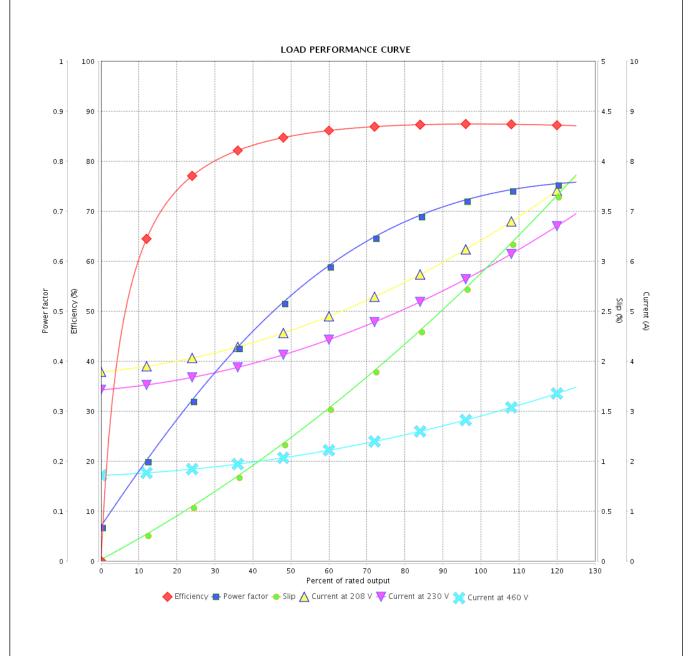
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676986

Catalog #: 00212OT3E184JM-S



Performance	:	230/460 V 60 Hz 6P				
Rated current	:	5.90/2.95 A	Moment o	f inertia (J)	: 0.2800 sq.ft.	lb
LRC	:	6.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	9.02 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.15	
Breakdown torque	:	300 %	Temperature rise		: 80 K	
Rated speed	:	1165 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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Efficiency Three-Phase

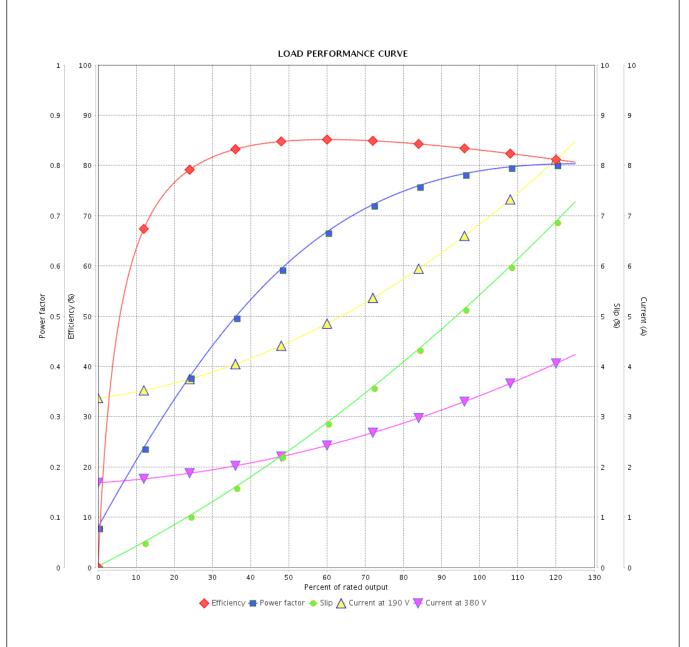
Product code: 12676986

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Performance	: 190/380 V 50 Hz 6P				
Periormance	. 190/360 V 30 HZ 0P				
Rated current : 6.96/3.48 A		Moment of ine	ertia (J)	: 0.2800 sq.ft.ll	b
LRC	: 5.1	Duty cycle		: Cont.(S1)	
Rated torque : 11.1 ft.lb		Insulation class	SS	: F ` ´	
Locked rotor torque : 160 %		Service factor : 1.00			
Breakdown torque	: 220 %	Temperature rise		: 105 K	
Rated speed	: 945 rpm	Design		: B	
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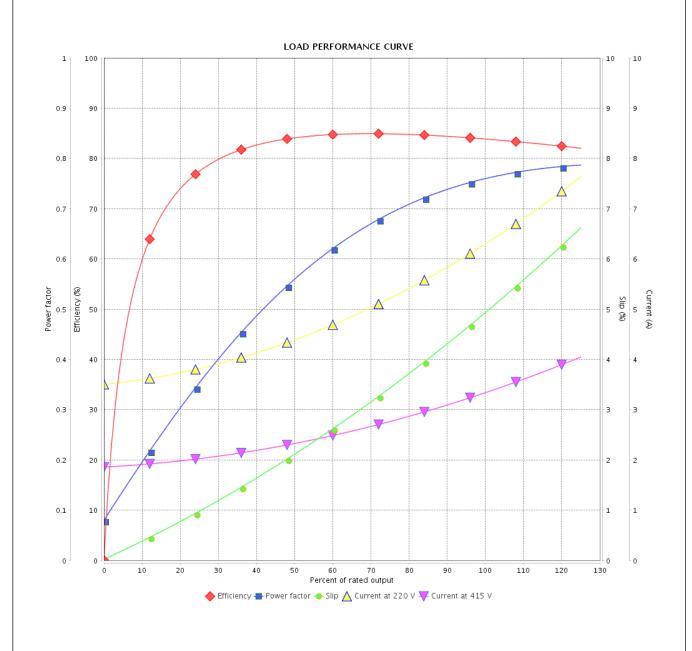
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Efficiency Three-Phase

Product code: 12676986

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Performance	: 220/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.41/3.40 A : 5.7 : 11.1 ft.lb : 190 % : 250 % : 950 rpm	Moment of inertial Duty cycle Insulation class Service factor Temperature rise Design	, ,	: 0.2800 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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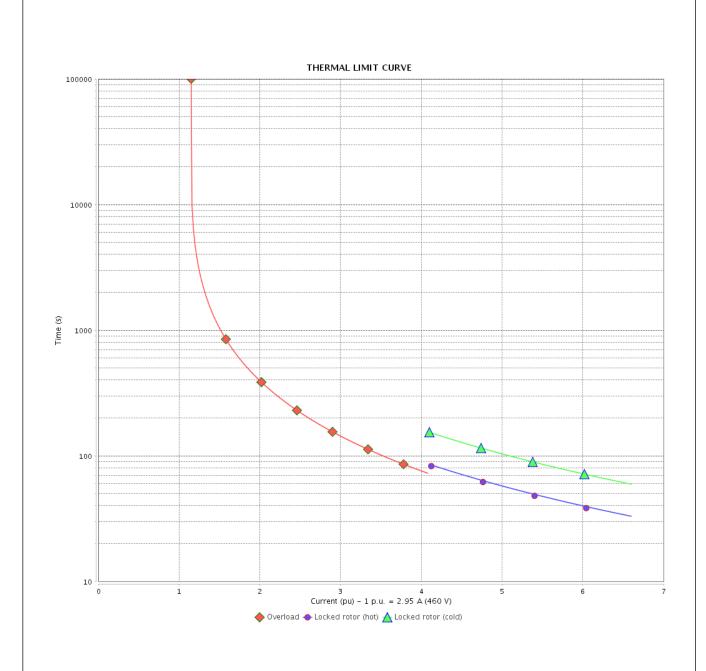


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Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676986	
		Emoleticy Trifee-i flase		Catalog # :	00212OT3E1	184JM-S
Performance		230/460 V 60 Hz 6P				
Rated current	:	5.90/2.95 A	Moment o	of inertia (J)	: 0.2800 sq.ft.l	b
LRC		6.6 9.02 ft.lb	Duty cycle Insulation	Э	: Cont.(S1) : F	
Rated torque Locked rotor tord		: 200 %	Service fa		: F : 1.15	
Breakdown torqu	ue :	300 %	Temperat		: 80 K	
Rated speed		1165 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change Cours		Dest	Ohl !	D-4-
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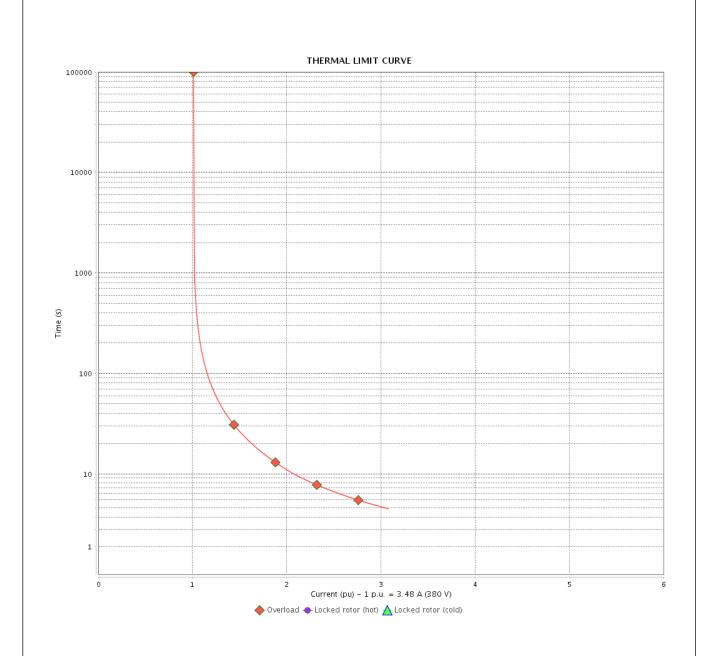


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Product line	: E	JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676986	
			1	Catalog # :	00212OT3E1	84JM-S
Performance	: 1	90/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 5 : 1 jue : 1 ie : 2	.96/3.48 A	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2800 sq.ft.I : Cont.(S1) : F : 1.00 : 105 K : B	b
Heating constant			-			
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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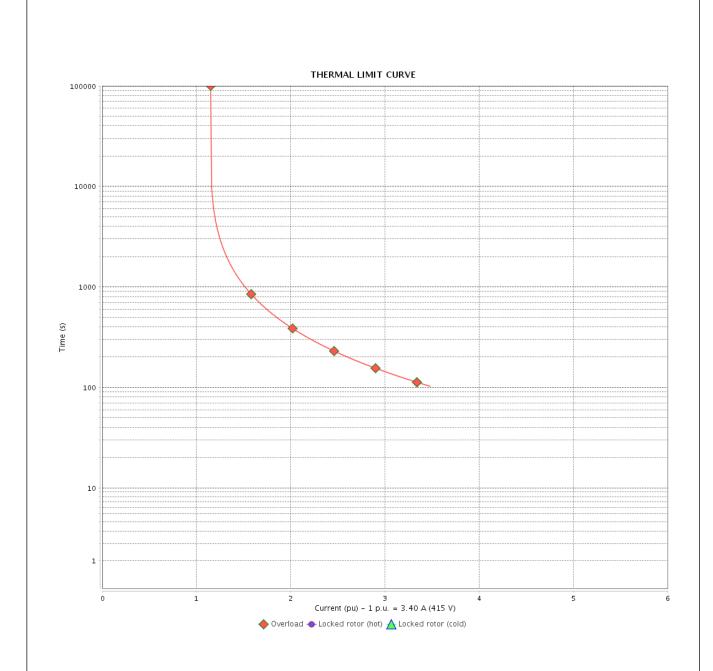


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Product line	: JM Pump NEMA Premium Efficiency Three-Phase	1	Product code :	12676986	
	Efficiency Trifee-i Hase		Catalog # :	00212OT3E184JM-S	
Performance	: 220/415 V 50 Hz 6P				
Rated current LRC	: 6.41/3.40 A : 5.7		f inertia (J)	: 0.2800 sq.ft.l : Cont.(S1)	b
Rated torque	: 11.1 ft.lb	Duty cycle Insulation class		: F	
Locked rotor torque	: 190 % : 250 %	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torque Rated speed	: 250 % : 950 rpm	Design	115E	: 80 K : B	
Heating constant					
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

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Customer :

Date

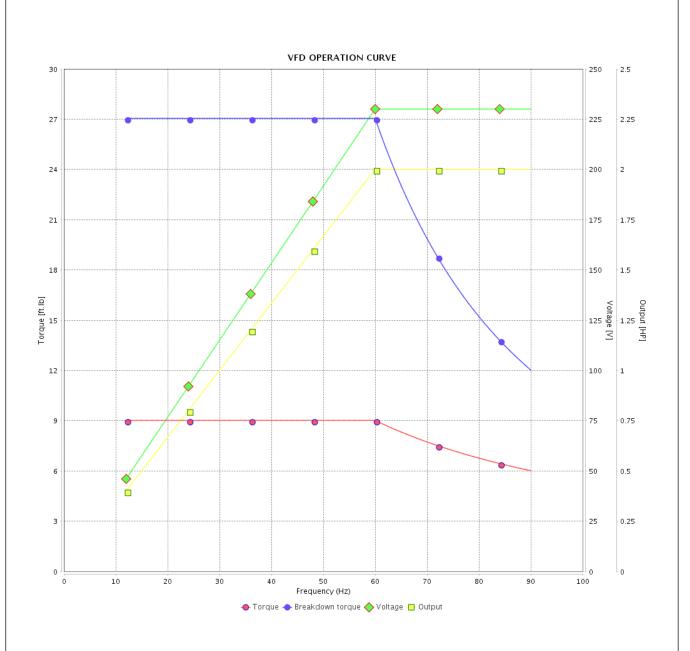
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676986

Catalog #: 00212OT3E184JM-S



Performance : 230/460 V 60 Hz 6P Rated current : 5.90/2.95 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 9.02 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1165 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



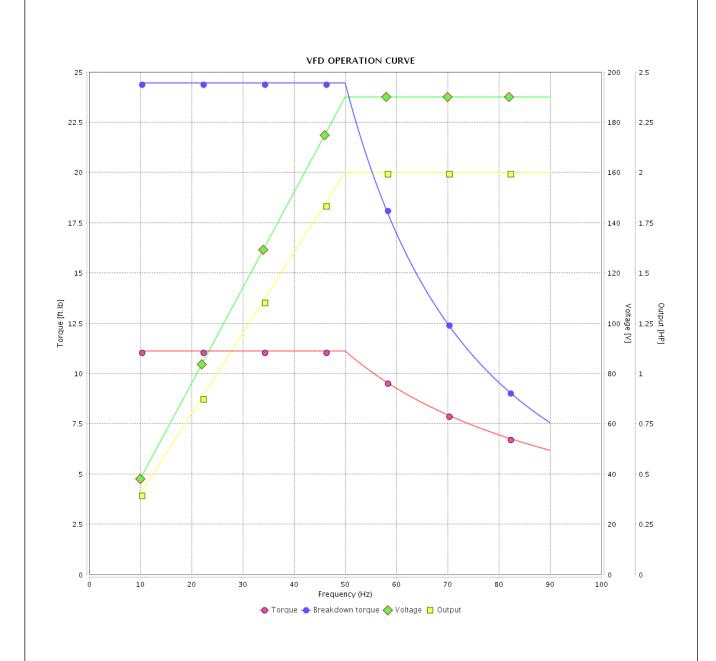
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Product line : JM Pump NEMA Premium

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Catalog #: 00212OT3E184JM-S



Performance	: 190/380 V 50 Hz 6P					
Rated current	: 6.96/3.48 A	Moment of inertia (J)		: 0.2800 sq.ft.lb		
LRC	: 5.1	.1 ft.lb Insulation class 50 % Service factor 70 % Temperature rise		: Cont.(S1) : F		
Rated torque	: 11.1 ft.lb					
Locked rotor torque	: 160 %			: 1.00		
Breakdown torque	: 220 %			: 105 K		
Rated speed	: 945 rpm			: B		
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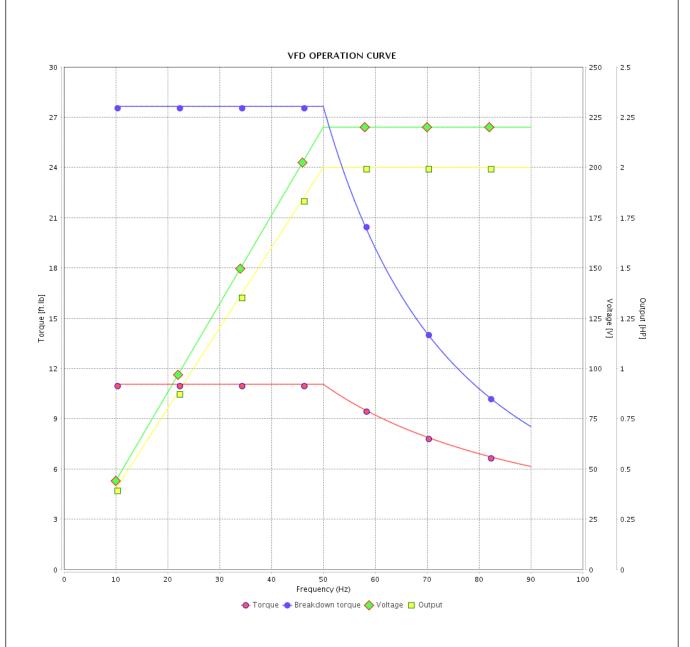
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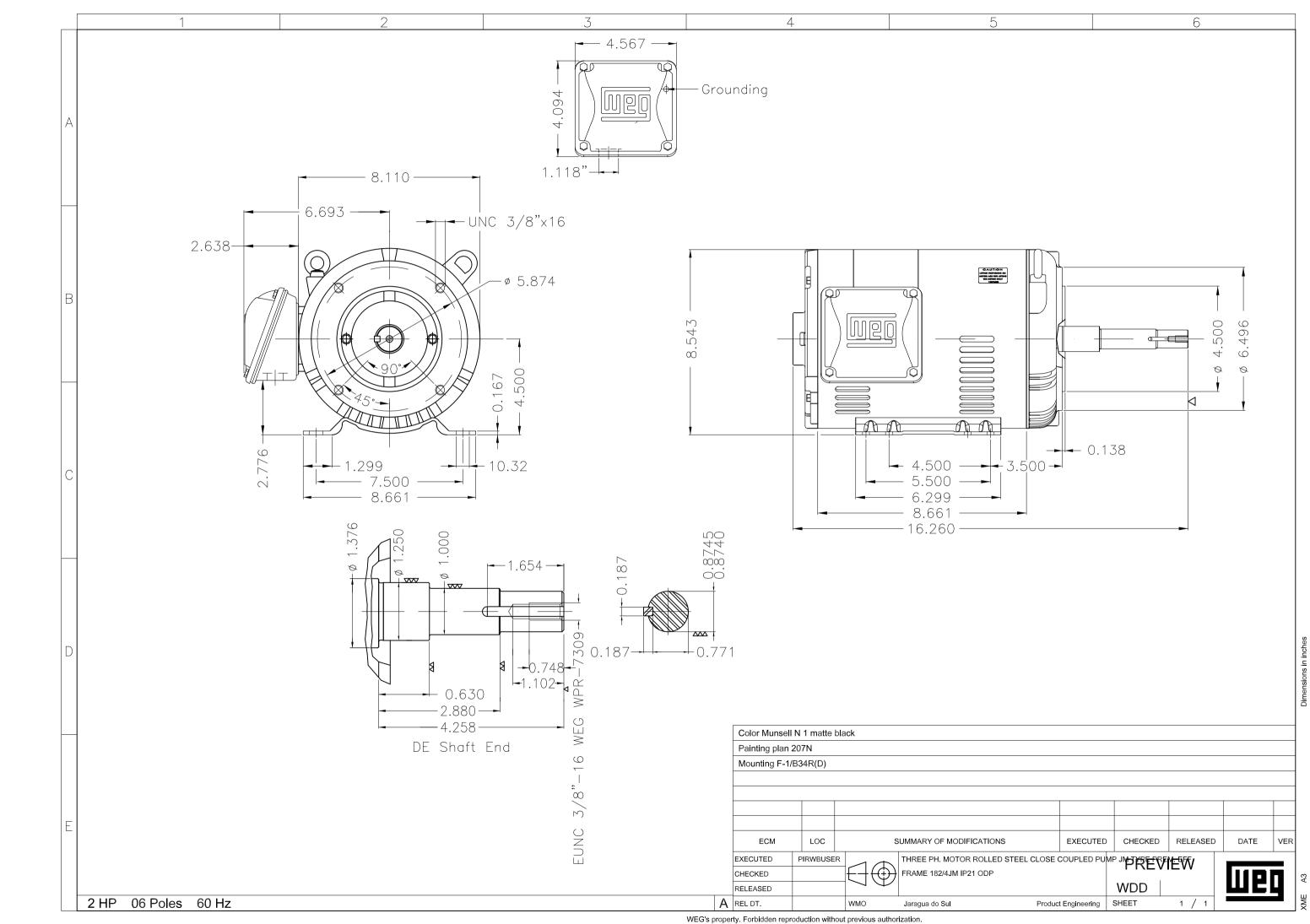


Performance : 220/415 V 50 Hz 6P Rated current : 6.41/3.40 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 11.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Energy Verifi

MODEL 002120T3E184JM-S S/N N01.TODICOXON

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12676986

MADE IN MÉXICO

9 걒 182/4.IM 07JAN2022 CONT 5.90/2.95

1000 m.a.s.l

NSC

230/460 1.15

> CODE DES F AT 80K 2°04 900

SABLE @ 208V 6.52A ALTERNATE RATING:

SF1.00 NCL 2

2.0HP

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 945RPM 50 Hz

6205-ZZ

ODE

8207-ZZ

牌

T6

IEC 60034-1

SF1.00

190-220/380-415V

87.5%

NOM EFF

EFF 83.0%

3 96-6 34/3 48-3 36A

MOBIL POLYREX EM

T2-WHT

T4-YEL

r3-org 1-BLU





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

