### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code: 12676978

Efficiency Three-Phase

Catalog #: 00518OT3E184JM-S

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

Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

: 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 89.2 lb

Design		: B	Moment of inertia (J)	: 0.4003 sq.ft.lb
Output [HP]		5	5	5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		12.7/6.33	15.4/7.71	13.8/7.32
L. R. Amperes [A]		91.2/45.6	89.4/44.7	89.8/47.6
LRC [A]		7.2x(Code J)	5.8x(Code G)	6.5x(Code H)
No load current [A	.]	6.29/3.15	6.19/3.10	6.38/3.38
Rated speed [RPI	Л]	1760	1445	1450
Slip [%]		2.22	3.67	3.33
Rated torque [ft.lb]		14.9	18.2	18.1
Locked rotor torque [%]		200	140	160
Breakdown torque	: [%]	310	220	250
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	87.5	90.4	89.3
Efficiency (%)	50%	88.5	88.2	87.9
Liliciericy (70)	75%	88.5	87.3	87.6
	100%	89.5	84.8	85.8
	25%	0.38	0.44	0.40
Power Factor	50%	0.63	0.71	0.67
1 OWCI I actor	75%	0.76	0.82	0.79
	100%	0.82	0.86	0.85

Non drive end Foundation loads Drive end

Bearing type 6207 ZZ 6205 ZZ Max. traction : 245 lb Sealing Without Without Max. compression : 334 lb

> Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 14.0A SF 1.00 SFA 14.0A

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.				
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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



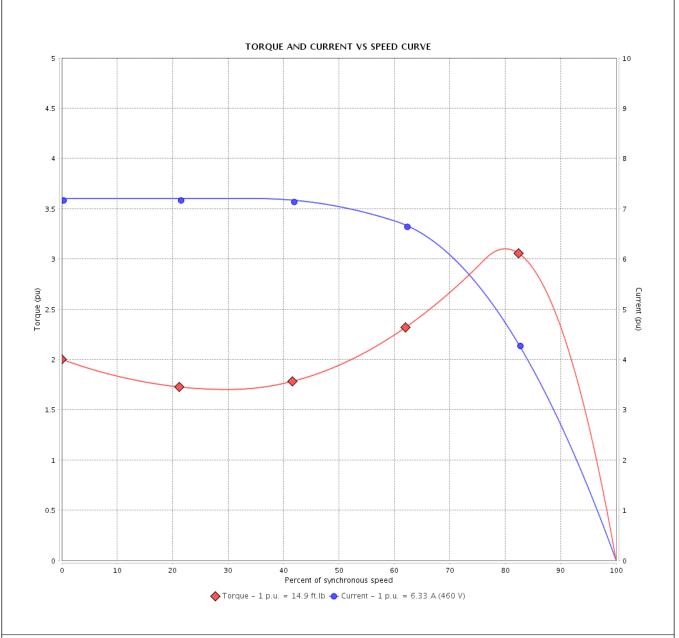
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676978

Catalog #: 00518OT3E184JM-S



Performance : 230/460 V 60 Hz 4P Rated current : 12.7/6.33 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F : 14.9 ft.lb Insulation class Rated torque : 200 % Service factor Locked rotor torque : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



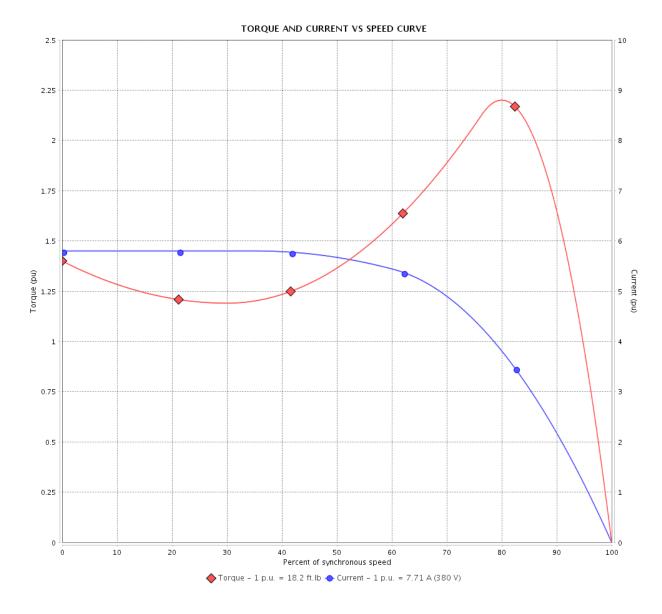
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676978

Catalog #: 00518OT3E184JM-S



Performance : 190/380 V 50 Hz 4P Rated current : 15.4/7.71 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 18.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 140 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 1445 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



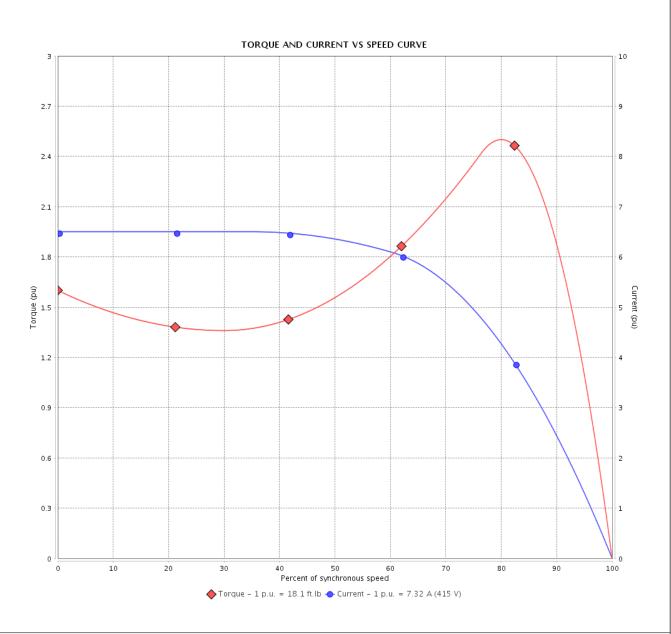
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676978

Catalog #: 00518OT3E184JM-S



Performance : 220/415 V 50 Hz 4P Rated current : 13.8/7.32 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 18.1 ft.lb Service factor : 1.15 Locked rotor torque : 160 % Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

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

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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



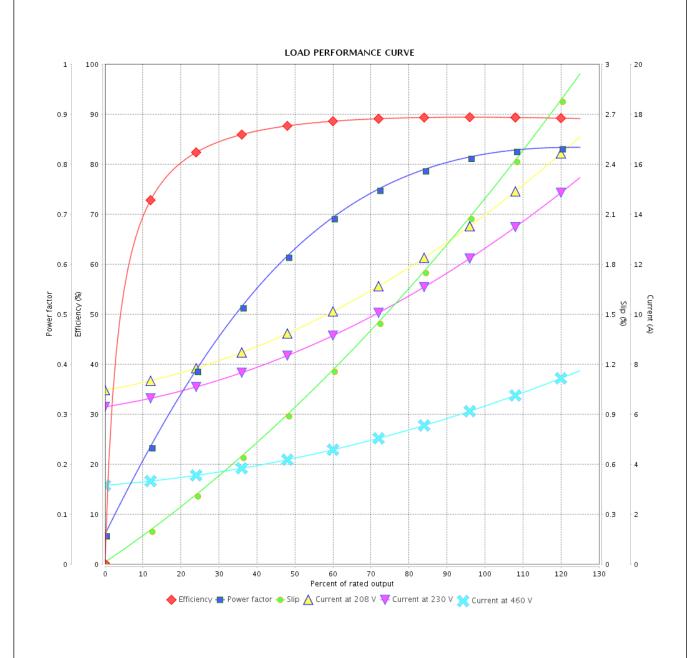
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676978

Catalog #: 00518OT3E184JM-S



Performance	: 2	230/460 V 60 Hz 4P					
Rated current	: 1	12.7/6.33 A Moment of		f inertia (J)	: 0.4003 sq.ft.	.lb	
LRC	: 7	7.2	Duty cycle	}	: Cont.(S1)		
Rated torque	: 1	14.9 ft.lb	Insulation	class	:F		
Locked rotor torqu	ie : 2	200 %	Service fa	ctor	: 1.15		
Breakdown torque : 310 %		310 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 1	1760 rpm	Design		: B		
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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

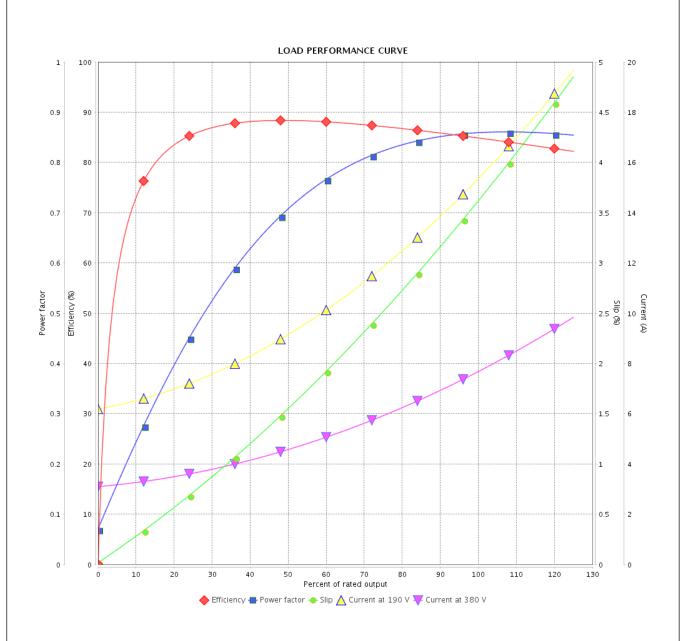
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676978

Catalog #: 00518OT3E184JM-S



Performance : 190/380 V 50 Hz 4P : 15.4/7.71 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 18.2 ft.lb : F Locked rotor torque : 140 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



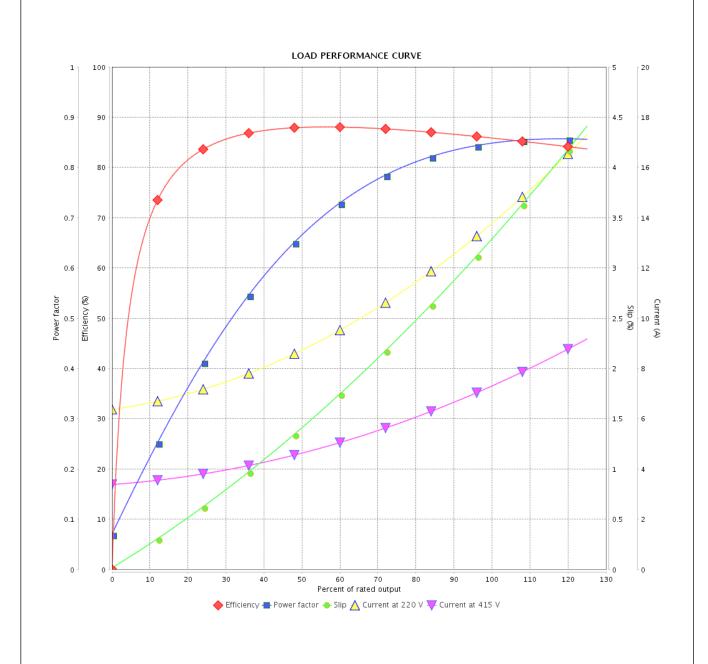
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676978

Catalog #: 00518OT3E184JM-S



Performance	:	220/415 V 50 Hz 4P					
Rated current	:	: 13.8/7.32 A Moment of i		nent of inertia (J) : 0.4003 sq.ft.		lb	
LRC	:	6.5	Duty cycle	<b>;</b>	: Cont.(S1)		
Rated torque	:	18.1 ft.lb	Insulation	class	: F		
Locked rotor torque	e :	160 %	Service fa	ctor	: 1.15		
Breakdown torque		250 %	Temperati	Temperature rise		: 80 K	
Rated speed		1450 rpm	Design		: B		
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### Three Phase Induction Motor - Squirrel Cage

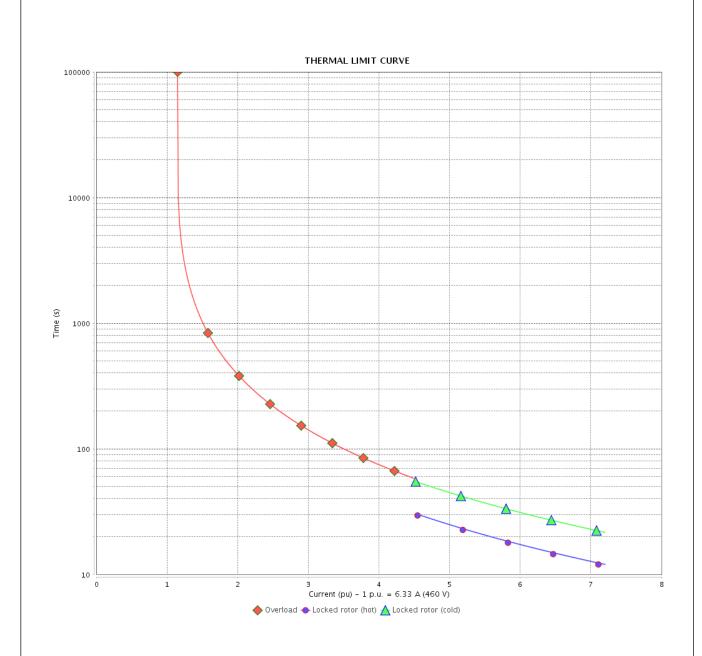


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676978	
		Emoichey Three-i Hase		Catalog # :	00518OT3E	184JM-S
Performance		230/460 V 60 Hz 4P	Manageta	finantia (I)	. 0 4002 #1	<b>L</b>
Rated current LRC		: 12.7/6.33 A : 7.2	Duty cycle	of inertia (J) e	: 0.4003 sq.ft.l : Cont.(S1)	υ
Rated torque		: 14.9 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 310 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		: 1760 rpm	Design	uie lise	: B	
Heating constan	ıt				<u>.                                    </u>	
Cooling constan						
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

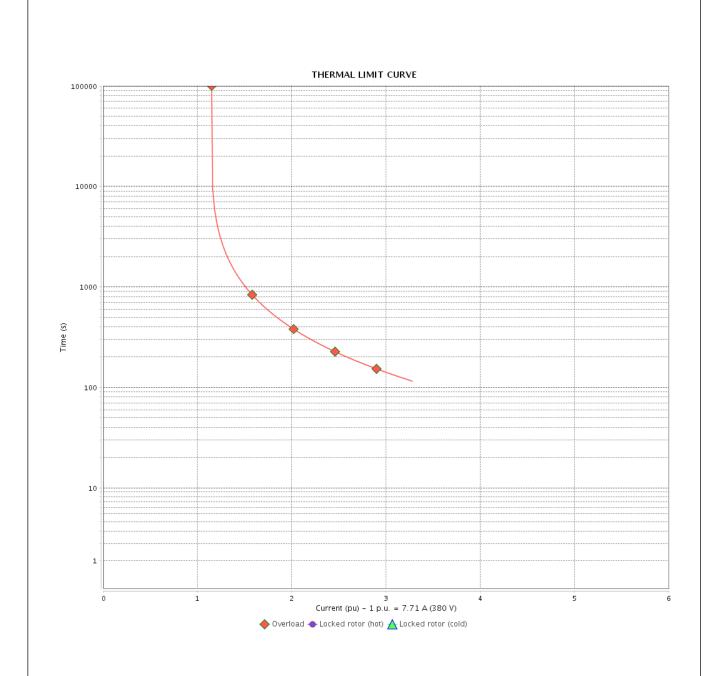


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D 1 1"				<b>D</b>	40070070	
Product line		JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12676978	
		,		Catalog # :	00518OT3E1	84JM-S
Performance		90/380 V 50 Hz 4P				-
Rated current LRC	: 1 : 5	5.4/7.71 A 5.8	Moment o Duty cycle	f inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque	: 1	8.2 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		40 % 20 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		445 rpm	Design	are rise	: 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

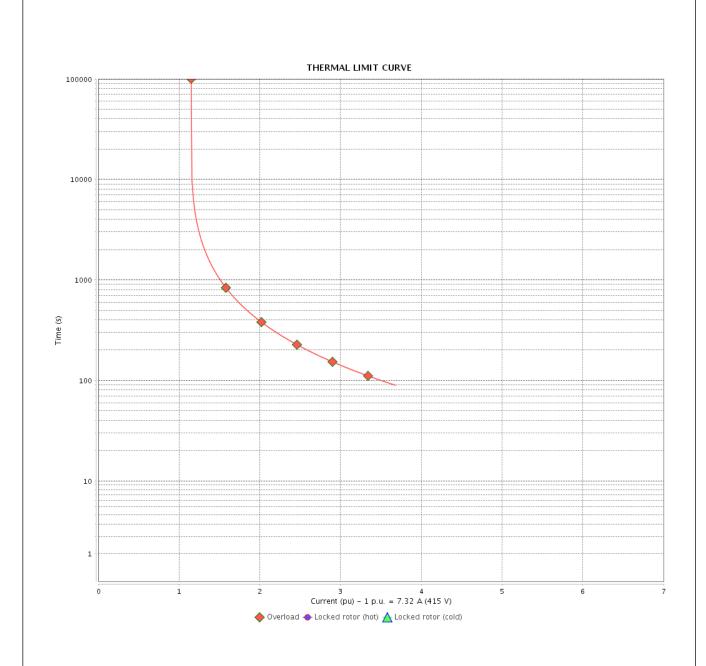


Customer	:					
Product line	:.	Efficiency Three-Phase		Product code :	12676978	
	E			Catalog # :	00518OT3E1	84JM-S
Performance	: 22	20/415 V 50 Hz 4P				
Rated current	: 13	3.8/7.32 A	Moment of	f inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque	: 6. : 18	5 3.1 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	ue : 16	60 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		50 % 450 rpm	Temperatu Design	ire 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 :

Checked by

Date

12/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

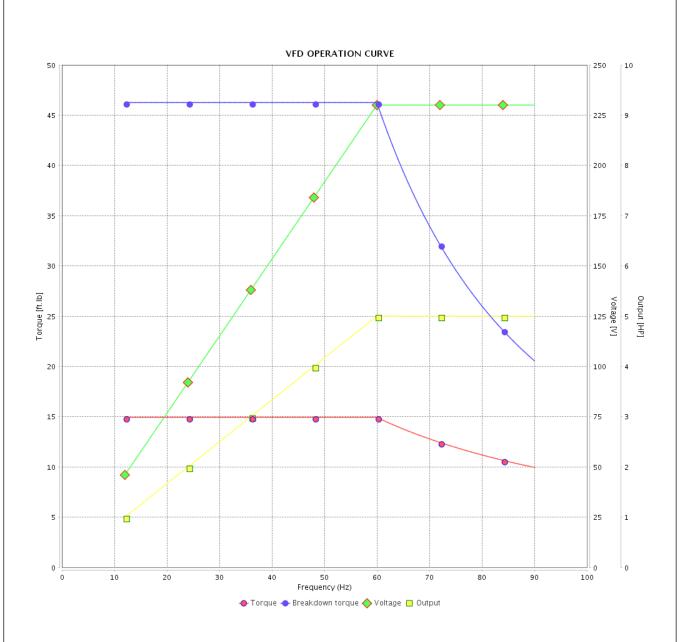
Product code: 12676978

Catalog #: 00518OT3E184JM-S

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	-1					
Performance	:	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	  ue  e :	: 12.7/6.33 A : 7.2 : 14.9 ft.lb : 200 % : 310 % : 1760 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		lb
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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



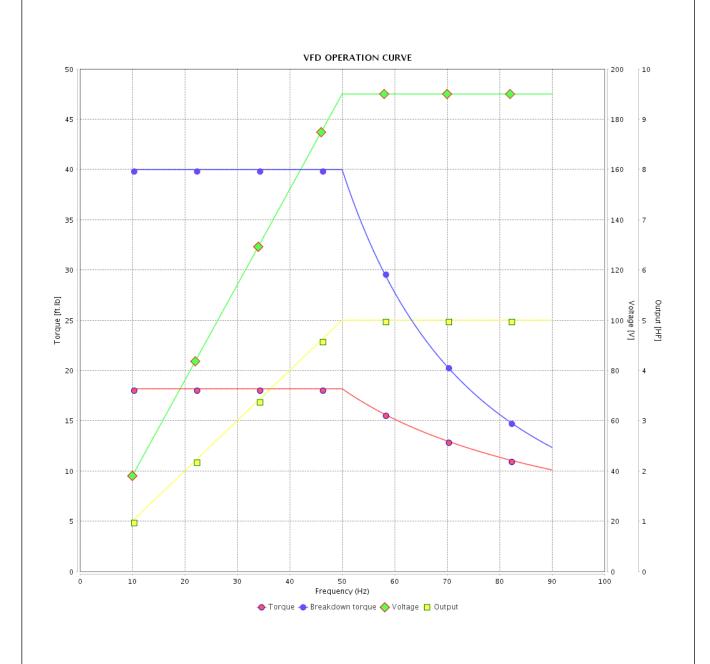
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12676978

Catalog #: 00518OT3E184JM-S



Performance : 1		90/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 15 : 5. : 18 e : 14	: 15.4/7.71 A		f inertia (J) class ctor ure rise	: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Rated speed	: 14						
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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

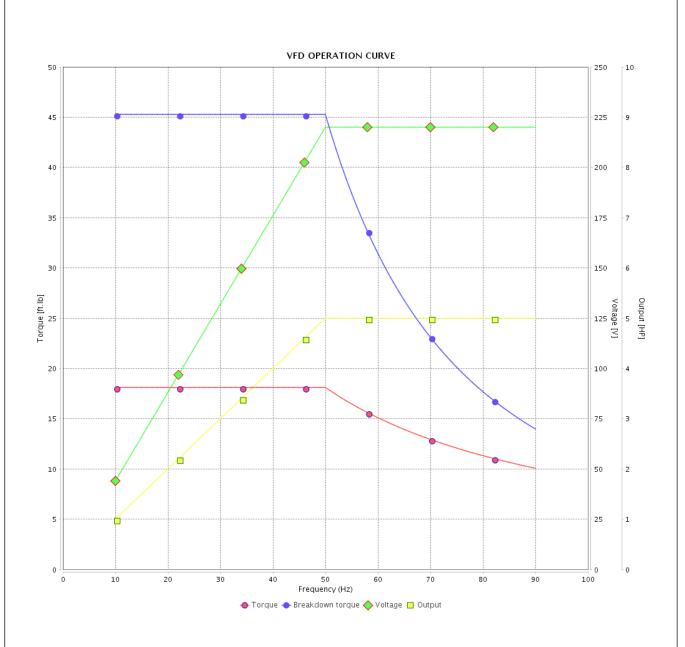
Product code: 12676978

Catalog #: 00518OT3E184JM-S

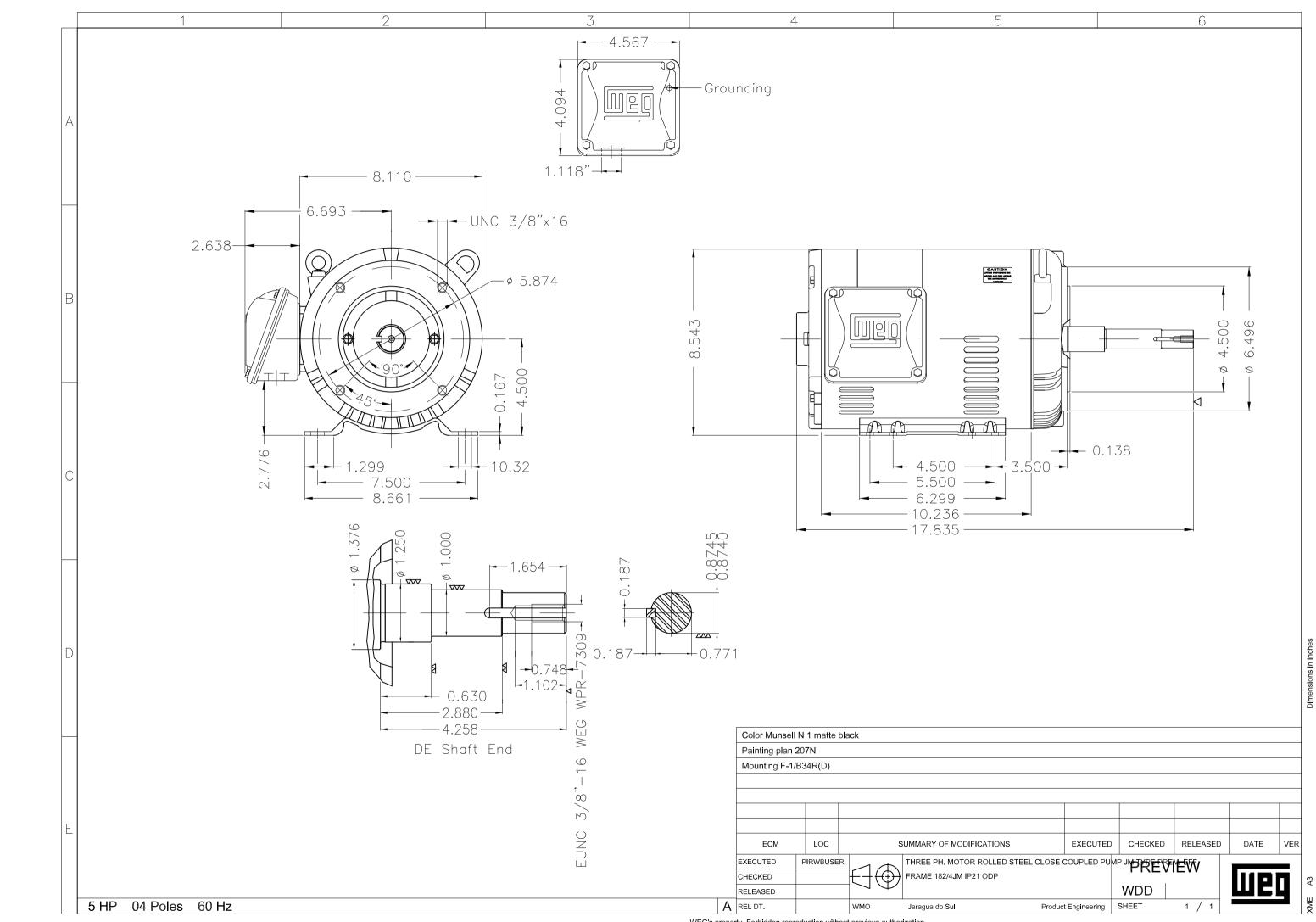
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Performance	:	: 220/415 V 50	Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 13.8/7.32 A : 6.5 : 18.1 ft.lb : 160 % : 250 % : 1450 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Energy Verifi (**UL)**US LISTED

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3PT9

MODEL 005180T3E184JM-S

CC029A

12676978

MADE IN MÉXICO

N01.TODICOXON

9 S/N 걒 182/4.IM 2APR2022 CONT

DES 1000 m.a.s.l F AT 80K

2°04 900

NS CL

1.15

3FA 냃

12.7/6.33 14.6/7.28 230/460

> CODE SABLE @ 208V 14.0A

1445RPM ZPM 쌆 50 Hz

89.5% NOM EFF

5.0HP

15.4-13.5/7.71-7.18A

ALTERNATE RATING:

SF1.00 INC. 2

IEC 60034-1

SF1.15

190-220/380-415V

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT **EFF 84.8%** 

6205-ZZ

ODE

8207-ZZ

牌

T6

MOBIL POLYREX EM

T2-WHT T6-GRY

11-BLU

T4-YEL

r3-org

T7-PNK T9-BRK T5-BLK

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



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

conformément aux codes électriques locaux et nationaux afin d'éviter tout

