DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium Product code : 12687790

Efficiency Three-Phase

Catalog #: 00518OT3E184JM-SG

Frame : 182/4JM Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 89.0 lb

 Design
 : B
 Moment of inertia (J)
 : 0.4003 sq.ft.lb

 Output [HP]
 5
 5
 5

Poles 4 4 50 Frequency [Hz] 60 50 220/415 Rated voltage [V] 230/460 190/380 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 [RPM] 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 0s (cold) 0s (hot) Locked rotor time 21s (cold) 12s (hot) 0s (cold) 0s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 87.5 90.4 89.3 50% 88.5 88.2 87.9 Efficiency (%) 75% 88.5 87.3 87.6 100% 89.5 84.8 85.8 25% 0.38 0.44 0.40 50% 0.63 0.71 0.67 Power Factor 75% 0.76 0.82 0.79

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

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

Bearing Seal Bearing Seal

0.82

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

Notes

USABLE @208V 14.0A SF 1.00 SFA 14.0A

100%

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.

0.85

0.86

(1)/14/100/001/10					
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



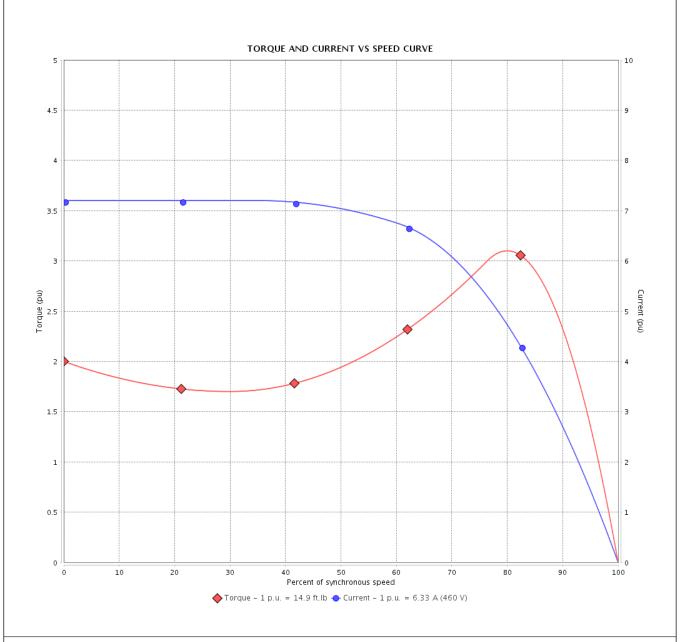
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687790

Catalog #: 00518OT3E184JM-SG



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

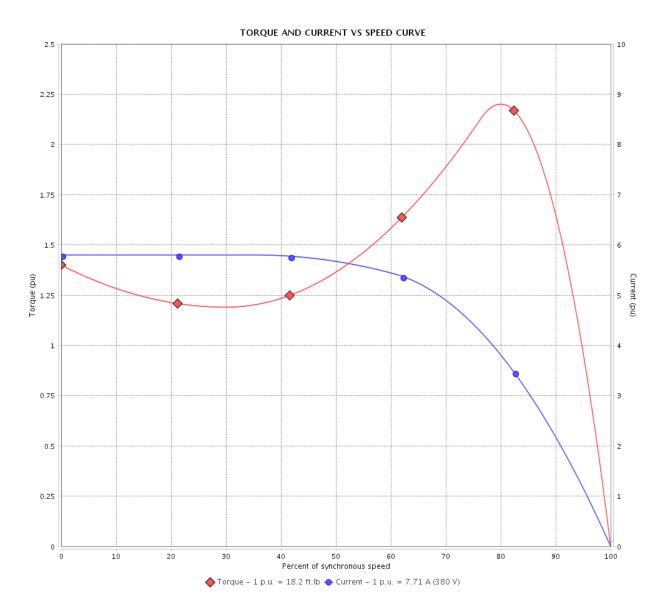


Customer :

Product line : JM Pump NEMA Premium Product code : 12687790

Efficiency Three-Phase

Catalog #: 00518OT3E184JM-SG



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



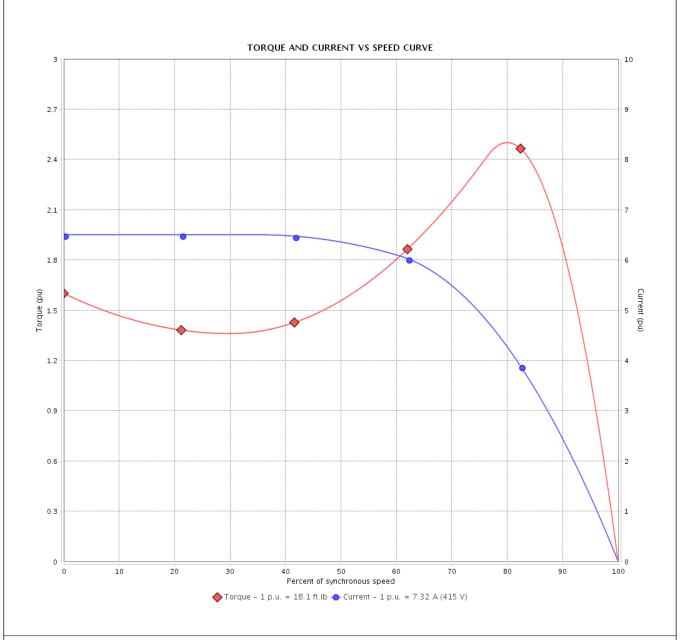
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687790

Catalog #: 00518OT3E184JM-SG



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



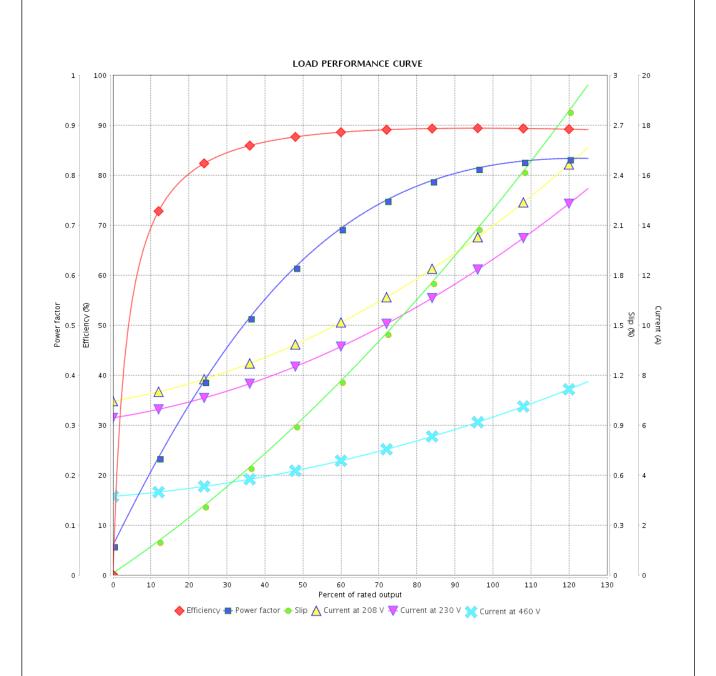
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687790

Catalog #: 00518OT3E184JM-SG



Performance	:	230/460 V 60 Hz 4P				
Rated current : 12.7/6.33 A		Moment o	Moment of inertia (J)		.lb	
LRC	:	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	14.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue :	200 %	Service fa	ctor	: 1.15	
Breakdown torque	e :	310 %	Temperati	ure rise	: 80 K	
Rated speed	:	1760 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

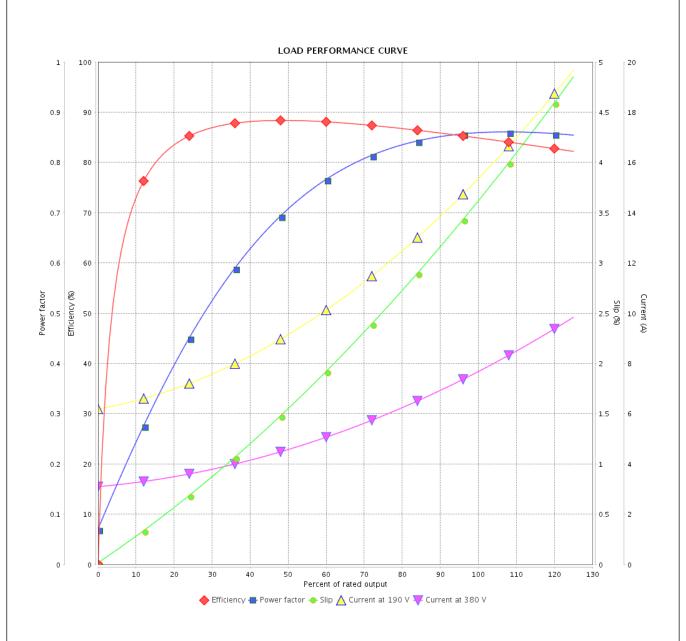
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687790

Catalog #: 00518OT3E184JM-SG



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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Three Phase Induction Motor - Squirrel Cage



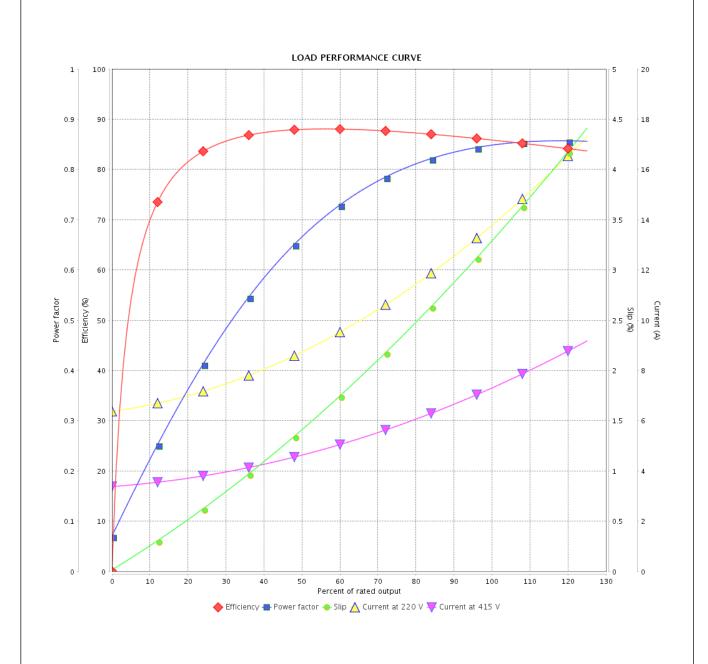
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687790

Catalog #: 00518OT3E184JM-SG



Performance	: 2	220/415 V 50 Hz 4P				
Rated current	: 1	13.8/7.32 A	Moment o	f inertia (J)	: 0.4003 sq.ft.	.lb
LRC	: 6	3.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	18.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	160 %	Service fa	ctor	: 1.15	
Breakdown torque : 250 %		Temperati	Temperature rise			
Rated speed	: 1	1450 rpm	Design		: B	
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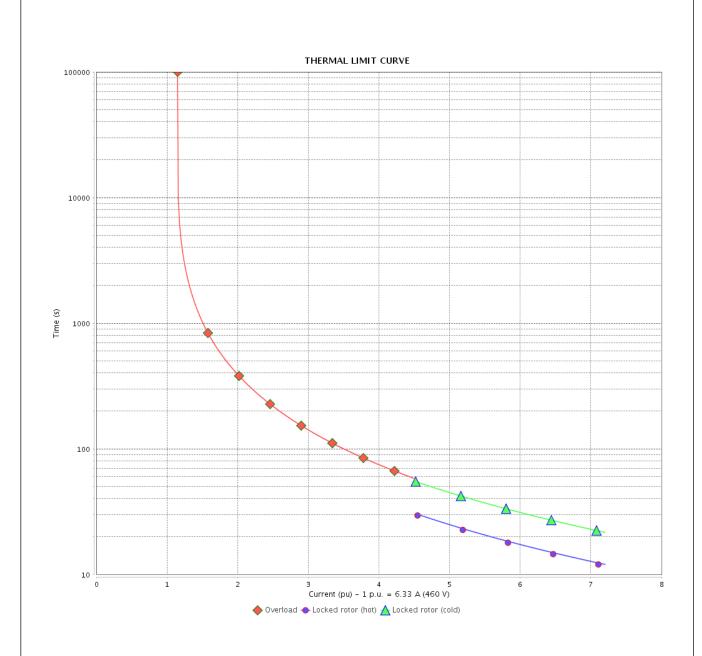


Customer	:				
Product line	: JM Pump NEMA Premium	F	Product code:	12687790	
	Efficiency Three-Phase	C	Catalog # :	00518OT3E	184JM-SG
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 12.7/6.33 A	Moment of	inertia (J)	: 0.4003 sq.ft.	lb
LRC	: 7.2 : 14.9 ft.lb	Duty cycle Insulation of		: Cont.(S1) : F	
Rated torque Locked rotor torque	: 200 %	Service fac	ctor	: 1.15	
Breakdown torque	: 310 %	Temperatu	re rise	: 80 K : B	
Rated speed	: 1760 rpm	Design		. D	
Heating constant Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



Customer



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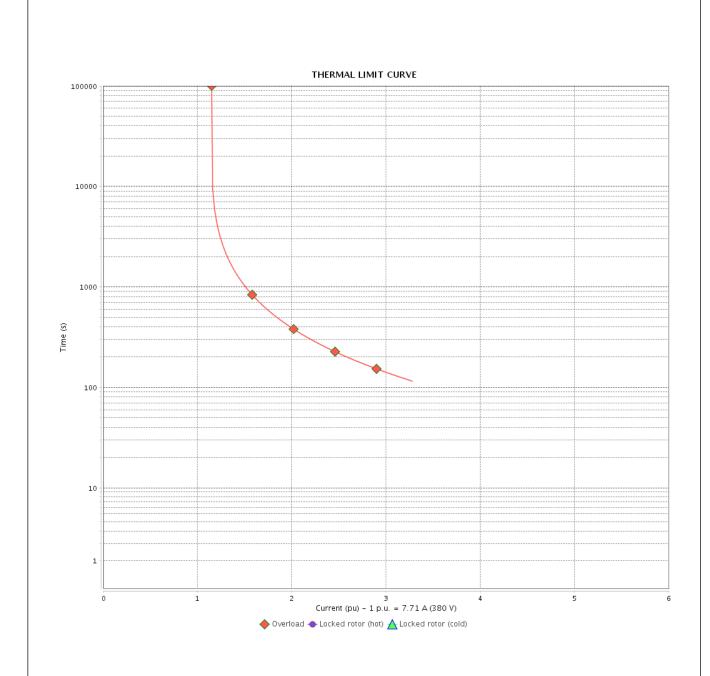


Customer		:				
Product line		: JM Pump NEMA Premium		Product code :	12687790	
1 Toddot IIIIC		Efficiency Three-Phase				
				Catalog # :	00518OT3E1	84JM-SG
Performance	:	190/380 V 50 Hz 4P				
Rated current		15.4/7.71 A	Moment o	of inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque		5.8 18.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	140 %	Service fa	ctor	: 1.15	
Breakdown torqu	ue :	220 %	Temperati	ure rise	: 80 K	
Rated speed		1445 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Current		Dowformerad	Charles	Dots
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Three Phase Induction Motor - Squirrel Cage



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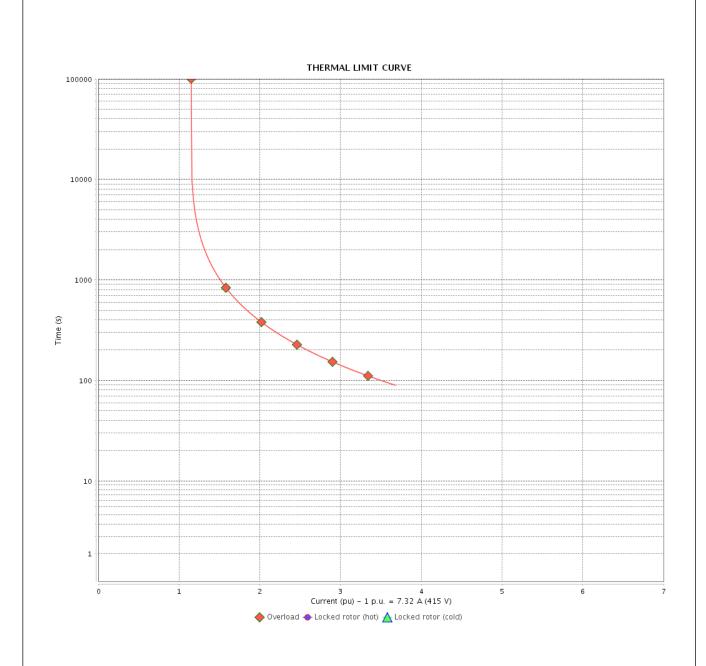


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	12687790	
		Linciency Three-i hase		Catalog # :	00518OT3E1	84JM-SG
Performance	•	220/415 V 50 Hz 4P				
Rated current		13.8/7.32 A	Moment o	of inertia (J)	: 0.4003 sq.ft.l	b
LRC		6.5 18.1 ft.lb	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torq		160 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	250 %	Temperat		: 80 K	
Rated speed		1450 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



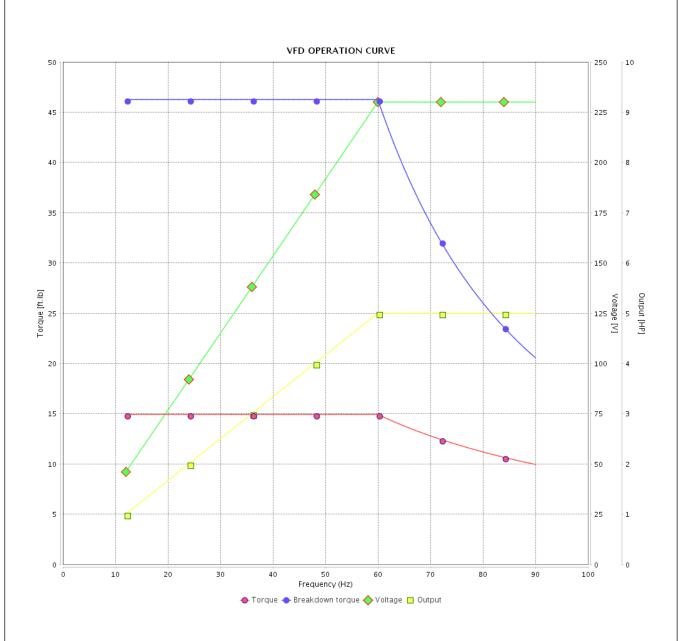
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687790

Catalog #: 00518OT3E184JM-SG



Performance	: 230/460 V 60 Hz 4P	30/460 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 Insulation class Service factor		: Cont.(S1)			
Rated torque	: 14.9 ft.lb			:F			
Locked rotor torque	: 200 %			: 1.15			
Breakdown torque	: 310 % Tempo	Temperatur	e rise	: 80 K			
Rated speed	: 1760 rpm	Design		: B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



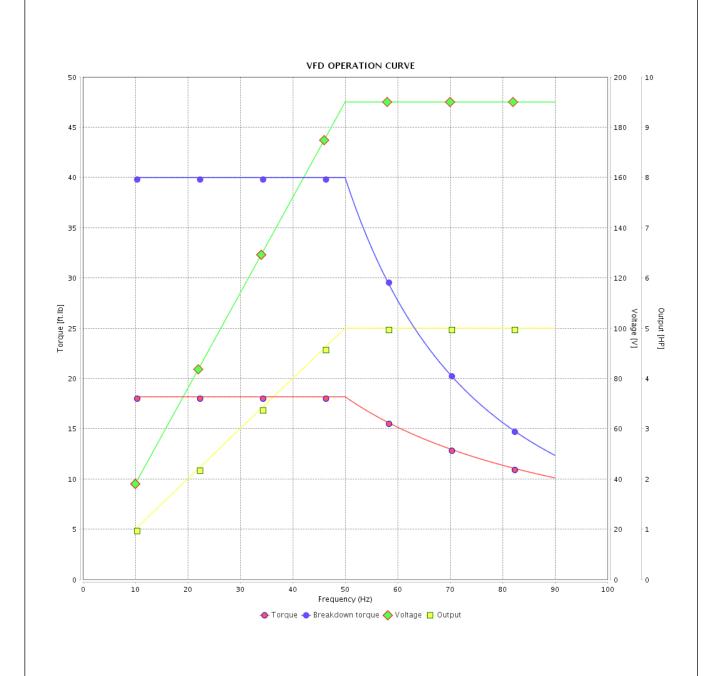
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 12687790

Catalog #: 00518OT3E184JM-SG



Performance	: 1	: 190/380 V 50 Hz 4P					
Rated current		5.4/7.71 A	Moment of	Moment of inertia (J)		: 0.4003 sq.ft.lb	
LRC :		.8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		8.2 ft.lb	Insulation	Insulation class		:F	
Locked rotor torque		40 %	Service factor		: 1.15		
Breakdown torque	: 2	20 %	Temperat	Temperature rise			
Rated speed	: 1	445 rpm Design		: B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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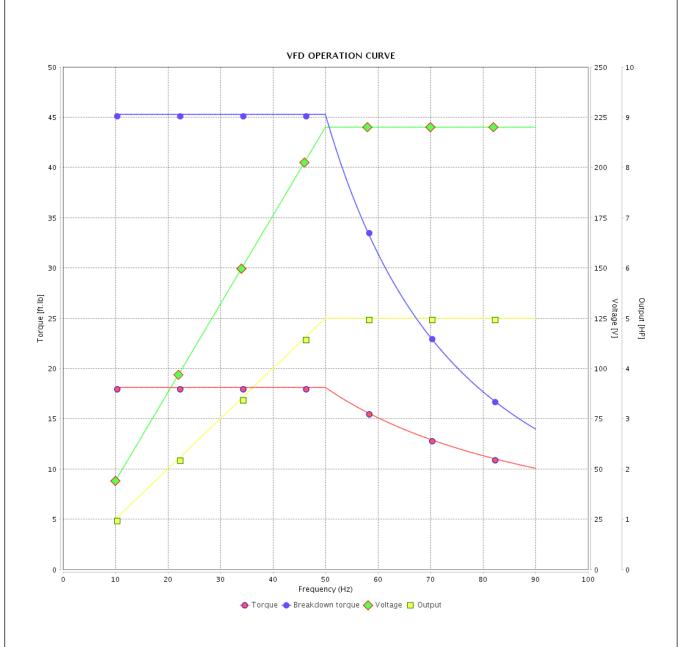
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Product line : JM Pump NEMA Premium

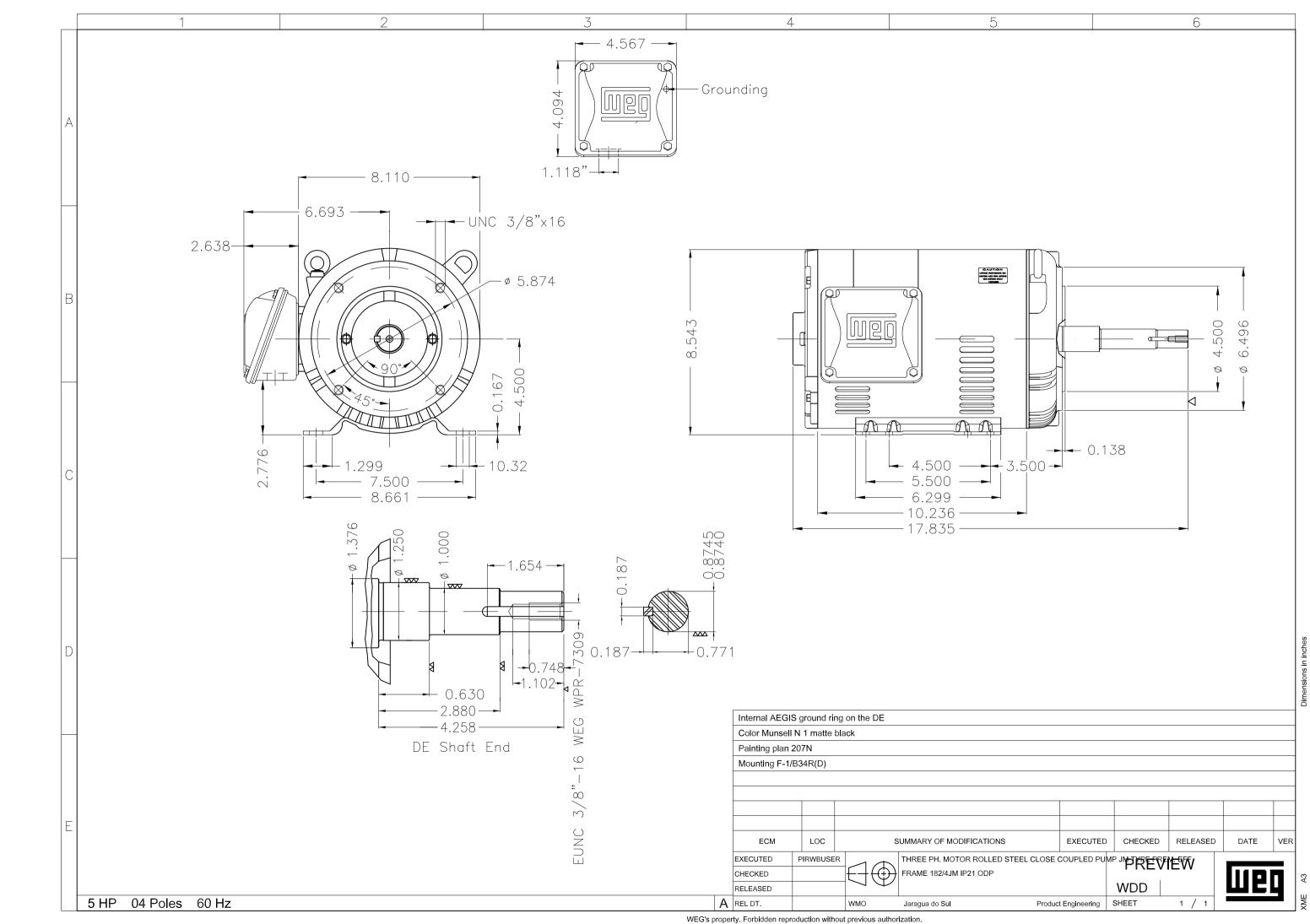
Efficiency Three-Phase

Product code: 12687790

Catalog #: 00518OT3E184JM-SG



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





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Energy Verifi

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CC029A

12687790

MADE IN MÉXICO

N01.TODICOXON

MODEL 005180T3E184JM-SG S/N 2APR2022

9 걒 1000 m.a.s.l 182/4.IM CONT

12.7/6.33 14.6/7.28 230/460

1.15

CODE DES SABLE @ 208V 14.0A F AT 80K 2°04 900

NS CL

ZPM 3FA 냃 쌆

> 5.0HP LTERNATE RATING:

SF1.00 INC. 2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. NOM EFF 1445RPM 50 Hz 6205-ZZ

15.4-13.5/7.71-7.18A

IEC 60034

SF1.15

190-220/380-415V

EFF 84.8% 89.5%

MOBIL POLYREX EM

ODE

8207-ZZ

牌

T6

T5-BLK 11-BLU

conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local

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



