DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JM Pump NEMA Premium Product code: 13355284 Efficiency Three-Phase Catalog #: 00518OT3E184JMV-S Frame : 182/4JM Cooling method : IC01 - ODP Insulation class Mounting : W-6 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 : 87.3 lb Design : B Moment of inertia (J) : 0.4003 sq.ft.lb Output [HP] 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

<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 : 333 lb

Bearing Seal Bearing Seal

0.38

0.63

0.76

0.82

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

Notes

Power Factor

USABLE @208V 14.0A SF 1.00 SFA 14.0A

25%

50%

75%

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.

0.40

0.67

0.79

0.85

0.44

0.71

0.82

0.86

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



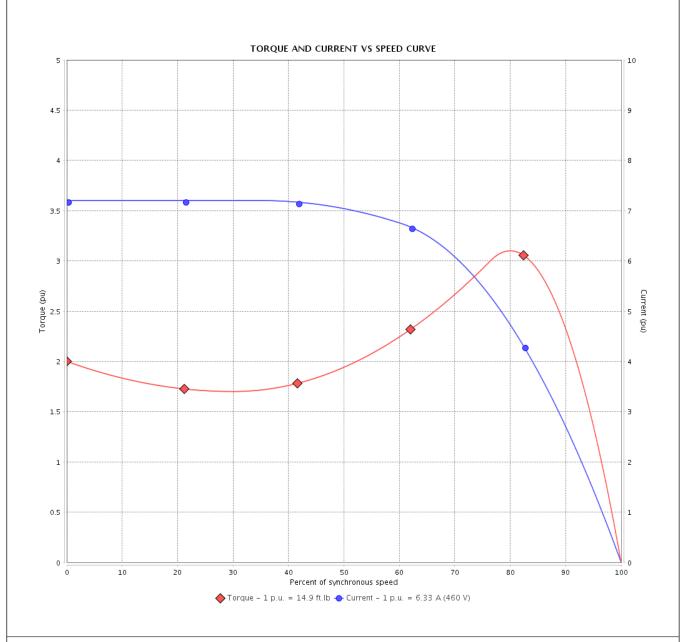
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13355284

Catalog #: 00518OT3E184JMV-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



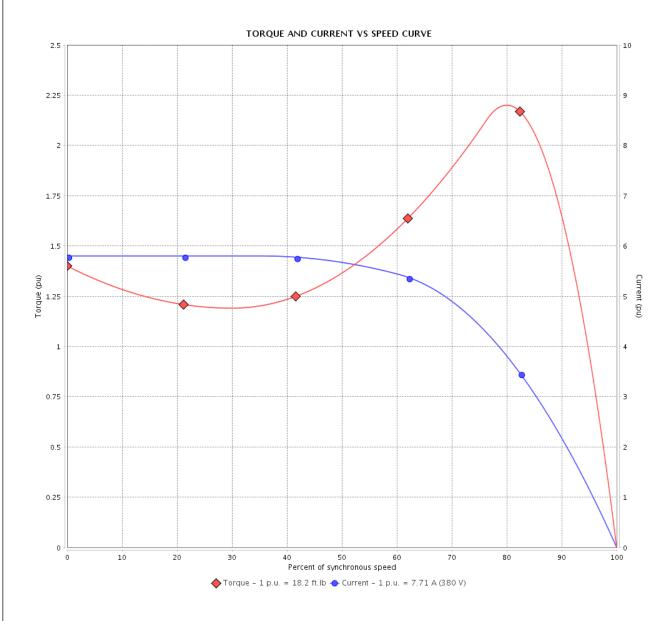
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13355284

Catalog #: 00518OT3E184JMV-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



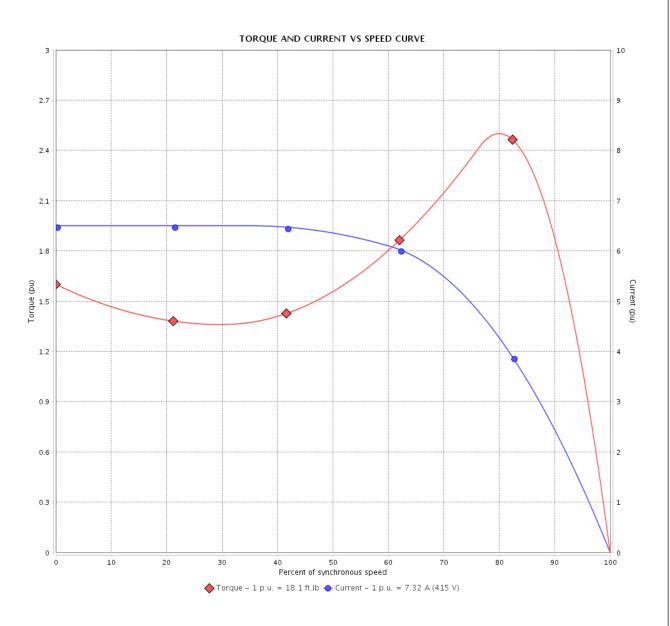
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13355284

Catalog #: 00518OT3E184JMV-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



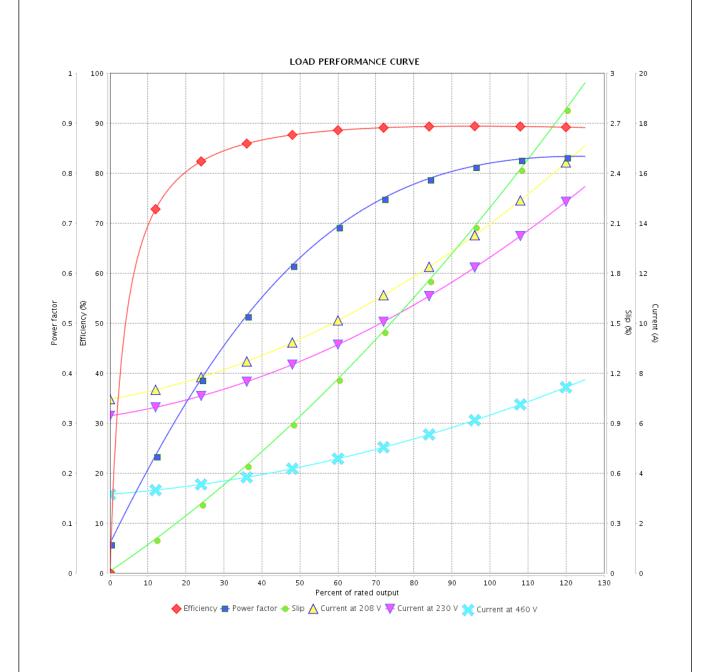
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13355284

Catalog #: 00518OT3E184JMV-S



Performance	rformance : 230/460 V 60 Hz 4P					
Rated current : 12.7/6.33 A		Moment o	f inertia (J)	: 0.4003 sq.ft.lb		
LRC	: 7	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	4.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	00 %	Service fa	ctor	: 1.15	
Breakdown torque	•		ıre rise	: 80 K		
Rated speed : 1760 rpm		760 rpm	Design		: B	
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Date

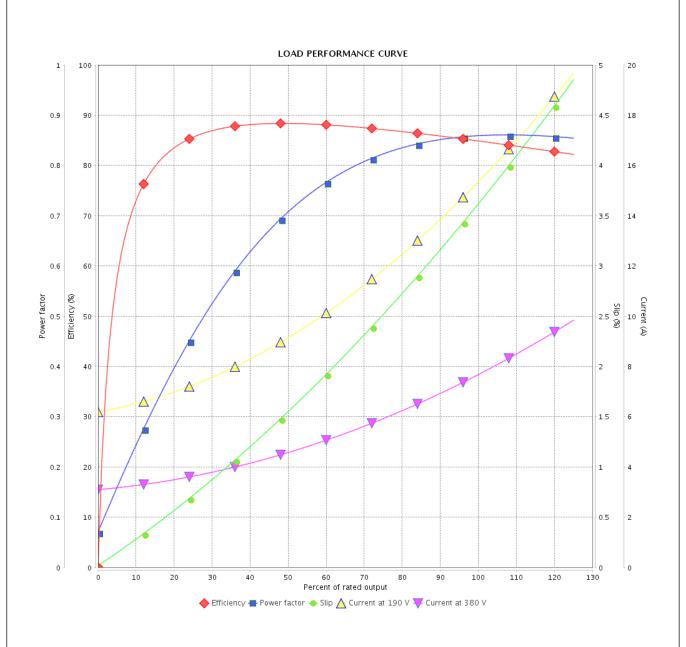
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Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13355284

Catalog #: 00518OT3E184JMV-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

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



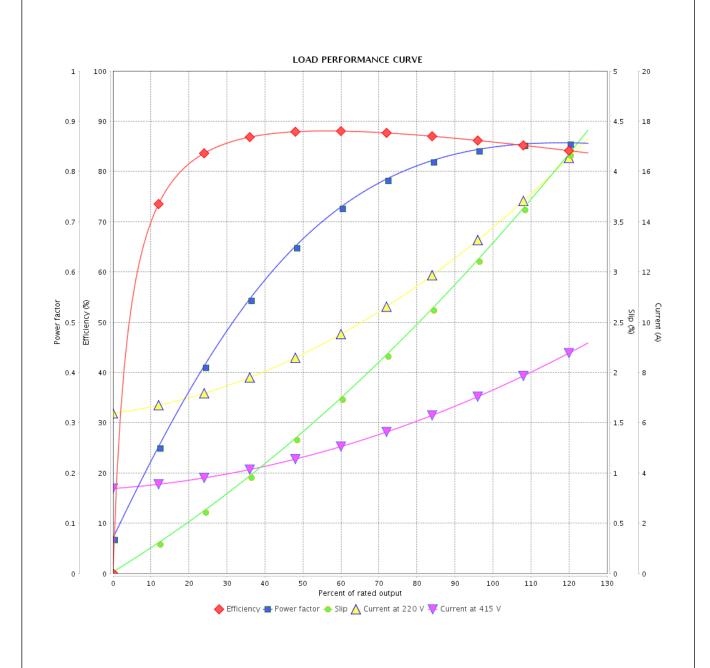
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13355284

00518OT3E184JMV-S Catalog #:



Performance	: 2	: 220/415 V 50 Hz 4P				
Rated current	nt : 13.8/7.32 A Moment of		f inertia (J)	: 0.4003 sq.ft.	lb	
LRC	: 6	.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	8.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	60 %	Service fa	ctor	: 1.15	
Breakdown torque		50 %	Temperature rise		: 80 K	
Rated speed		450 rpm	Design		: B	
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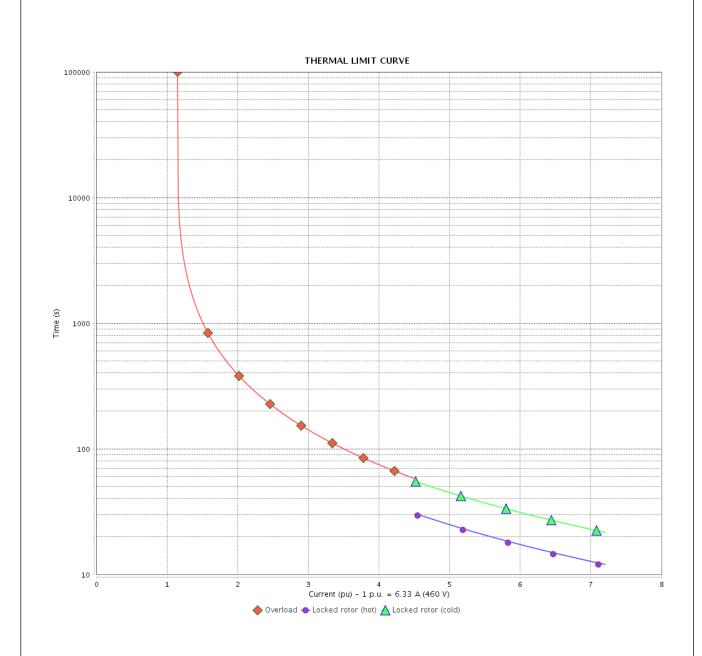


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13355284	
		Lindency Three-i hase		Catalog # :	00518OT3E	84JMV-S
Performance	:	230/460 V 60 Hz 4P				
Rated current		12.7/6.33 A	Moment of	of inertia (J)	: 0.4003 sq.ft.l	b
LRC	:	7.2	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		14.9 ft.lb 200 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	310 %	Temperat		: 80 K	
Rated speed		1760 rpm	Design		: B	
Heating constant						
Cooling constant	t					
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

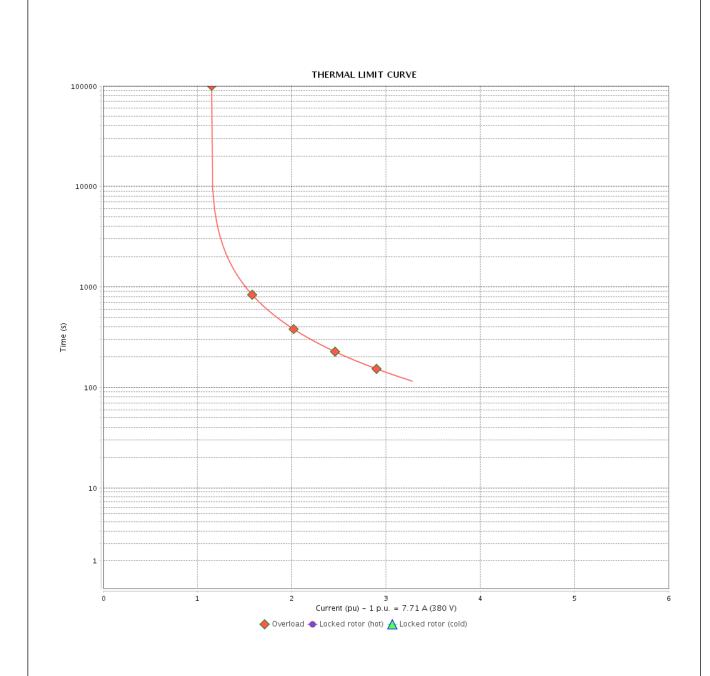


Customer	:			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code : Catalog # :	13355284 00518OT3E184	JMV-S
Performance	: 190/380 V 50 Hz 4P			
Rated current LRC	: 15.4/7.71 A : 5.8	Moment of inertia (J) Duty cycle	: 0.4003 sq.ft.lb : Cont.(S1)	
Rated torque	: 18.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 140 % : 220 %	Service factor	: 1.15 : 80 K	
Breakdown torque Rated speed	: 220 % : 1445 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



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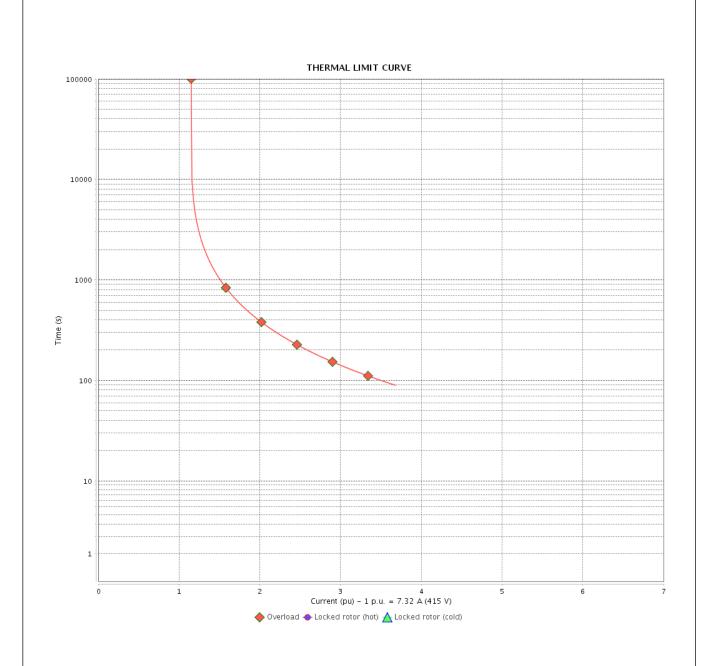


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13355284	
		Linciency Three-i hase		Catalog # :	00518OT3E1	84JMV-S
Performance	:	: 220/415 V 50 Hz 4P				
Rated current		: 13.8/7.32 A	Moment o	of inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque		: 6.5 : 18.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Rated torque Locked rotor tord		: 160 %	Service fa		: 1.15	
Breakdown torqu	ue :	: 250 %	Temperat		: 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change Cours		Dorf	Ohl !	D-1-
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Three Phase Induction Motor - Squirrel Cage



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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

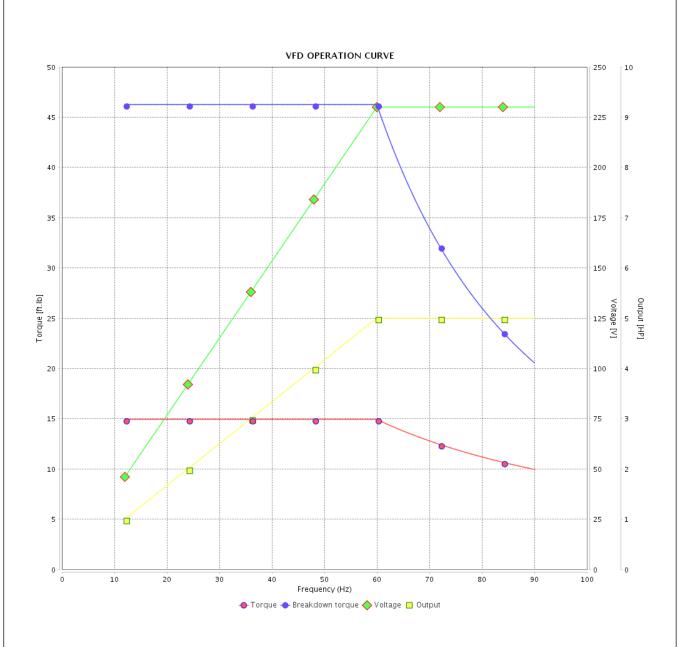
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Catalog #: 00518OT3E184JMV-S

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Performance	::	230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ::	12.7/6.33 A 7.2 14.9 ft.lb 200 % 310 % 1760 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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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



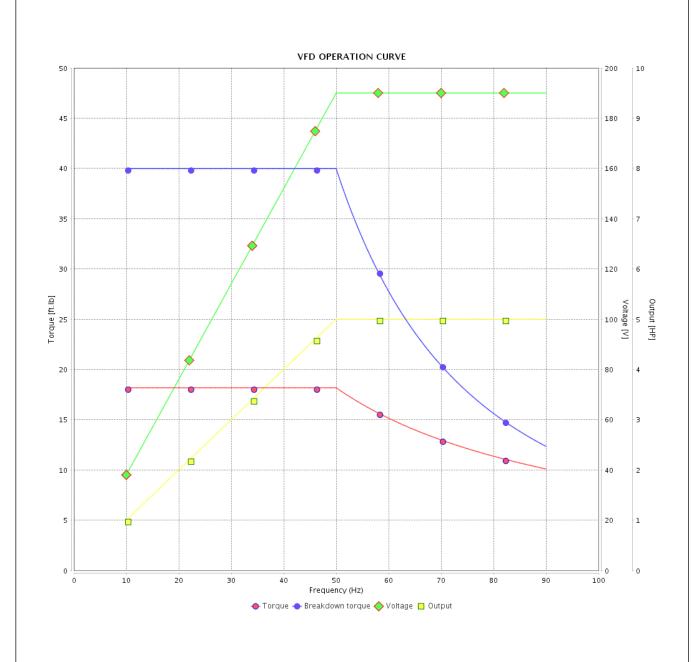
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13355284

Catalog #: 00518OT3E184JMV-S



Performance	: 1	90/380 V 50 Hz 4P					
Rated current	: 1	5.4/7.71 A	77.71 A Moment of inertia (J)		: 0.4003 sq.ft.lb		
LRC	: 5	5.8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 1	8.2 ft.lb	Insulation	Insulation class		: F	
Locked rotor torqu	ue : 1	40 %	Service fa	Service factor		: 1.15	
Breakdown torque	e : 2	20 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	445 rpm	Design	Design		: B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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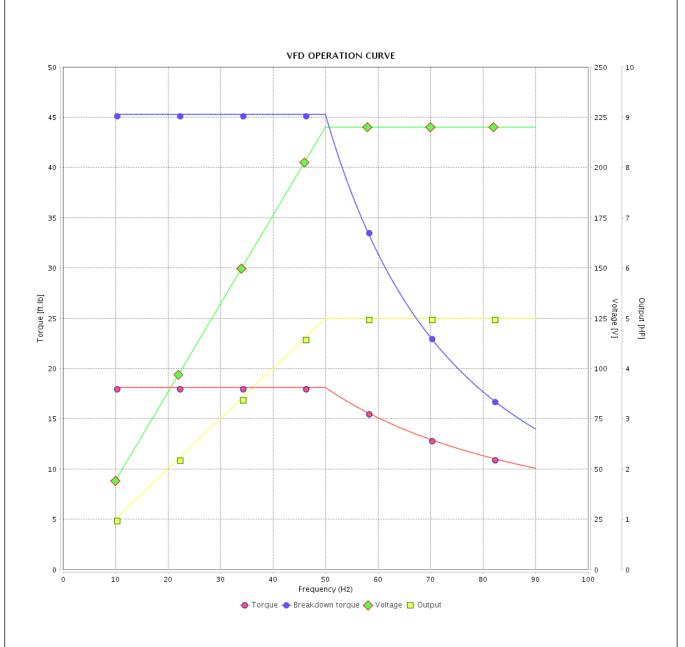
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Product line : JM Pump NEMA Premium

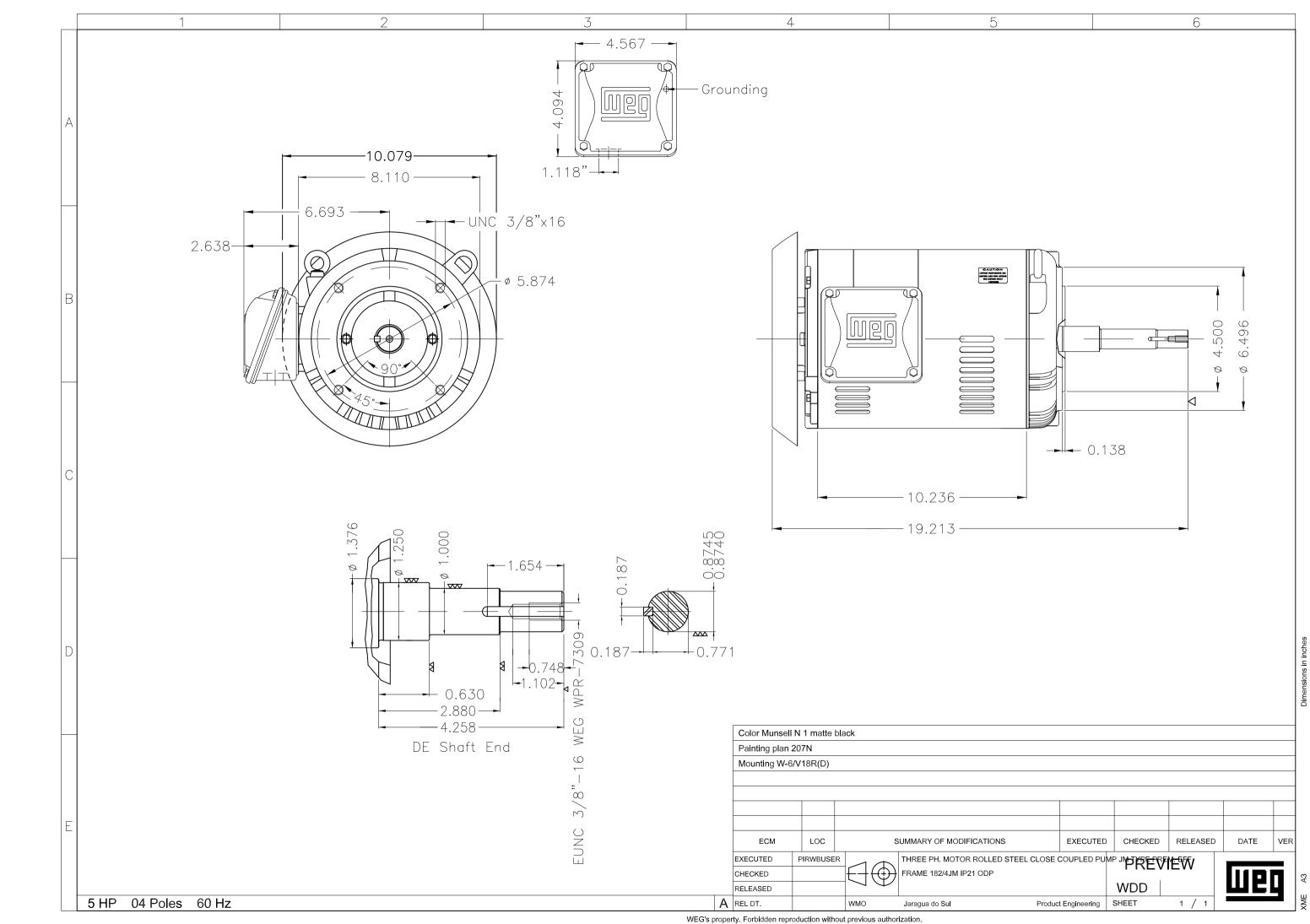
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Product code: 13355284

Catalog #: 00518OT3E184JMV-S



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 : 18.1 ft.lb : F Rated torque 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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IM005404DPNPSW01 S/N N01.TODICOXON 18NOV2021

CC029A

13355284

MADE IN MÉXICO

Hz 60 182/4.IM CONT

12.7/6.33 14.6/7.28 230/460

1.15

3FA 냃 쌆

1000 m.a.s.l

NSC

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

5.0HP

NOM EFF 1445RPM ZPM 50 Hz

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT 190-220/380-415V

IEC 60034

EFF 84.8% 89.5%

15.4-13.5/7.71-7.18A

LTERNATE RATING:

SF1.00 NCL 2

SF1.15

MOBIL POLYREX EM

6205-ZZ

ODE

8207-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