DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JM Pump NEMA Premium Product code: 13482597

Efficiency Three-Phase

Catalog #: 00536OT3E182JMV-S

Frame : 182/4JM Cooling method : IC01 - ODP Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 61.4 lb Altitude

: 0.1386 sq.ft.lb Design : B Moment of inertia (J)

Design		. В	Woment of mertia (3)	. 0.1300 Sq.1t.lb
Output [HP]		5	5	5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		12.2/6.10	14.7/7.37	13.2/7.01
L. R. Amperes [A]		92.7/46.4	85.5/42.7	86.0/45.6
LRC [A]		7.6x(Code J)	5.8x(Code G)	6.5x(Code H)
No load current [A	.]	5.15/2.58	5.05/2.53	5.33/2.83
Rated speed [RPI	Л]	3510	2885	2900
Slip [%]		2.50	3.83	3.33
Rated torque [ft.lb]		7.48	9.10	9.05
Locked rotor torque [%]		190	150	170
Breakdown torque	: [%]	300	220	250
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		65.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%	85.2	88.3	87.1
Efficiency (%)	50%	85.5	86.5	86.0
Liliciency (70)	75%	86.5	86.0	86.2
	100%	86.5	83.8	84.7
	25%	0.45	0.51	0.47
Power Factor	50%	0.73	0.79	0.75
1 OWCI I actor	75%	0.83	0.88	0.85
	100%	0.88	0.91	0.90

Non drive end Foundation loads Drive end

Bearing type 6207 ZZ 6205 ZZ Max. traction : 114 lb Sealing Without Without Max. compression : 175 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 13.5A SF 1.00 SFA 13.5A

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



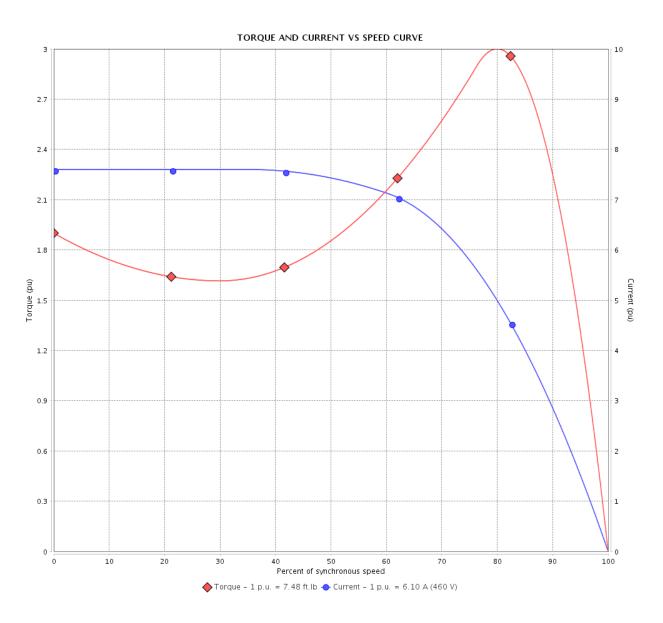
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482597

Catalog #: 00536OT3E182JMV-S



Performance	: 230/460 V 60 Hz 2P			
Rated current	: 12.2/6.10 A	Moment of inertia (J)	: 0.1386 sq.ft.lb	
LRC	: 7.6	Duty cycle	: Cont.(S1)	
Rated torque	: 7.48 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 3510 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

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

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TORQUE AND CURRENT VS SPEED CURVE

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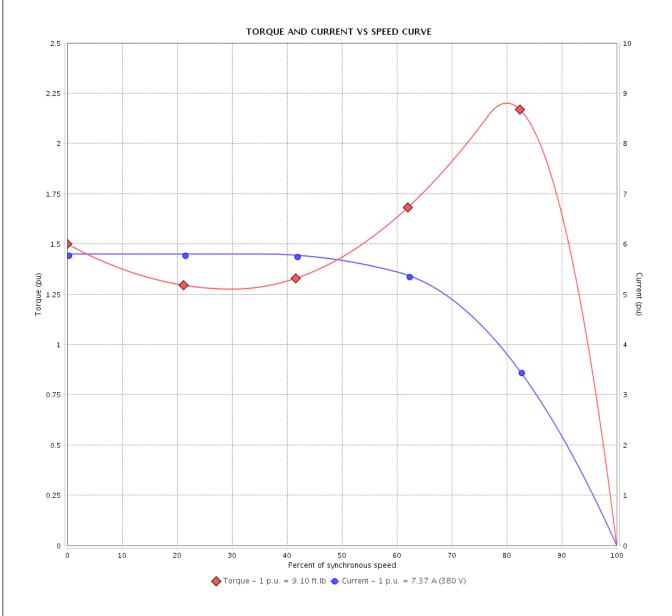
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482597

Catalog #: 00536OT3E182JMV-S



Performance : 190/380 V 50 Hz 2P Rated current : 14.7/7.37 A Moment of inertia (J) : 0.1386 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Rated torque : 9.10 ft.lb Insulation class : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : B : 2885 rpm Design : 0s (cold) 0s (hot) Locked rotor time

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



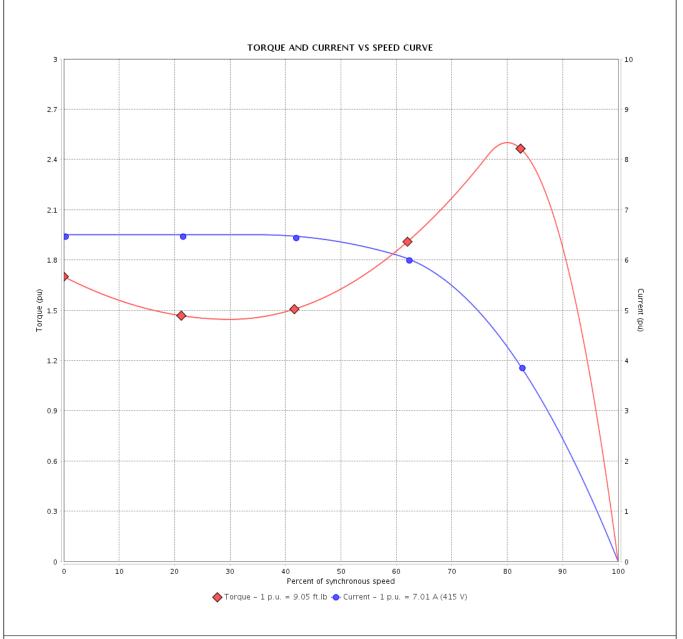
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482597

Catalog #: 00536OT3E182JMV-S



Performance : 220/415 V 50 Hz 2P Rated current : 13.2/7.01 A Moment of inertia (J) : 0.1386 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 9.05 ft.lb Service factor Locked rotor torque : 170 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



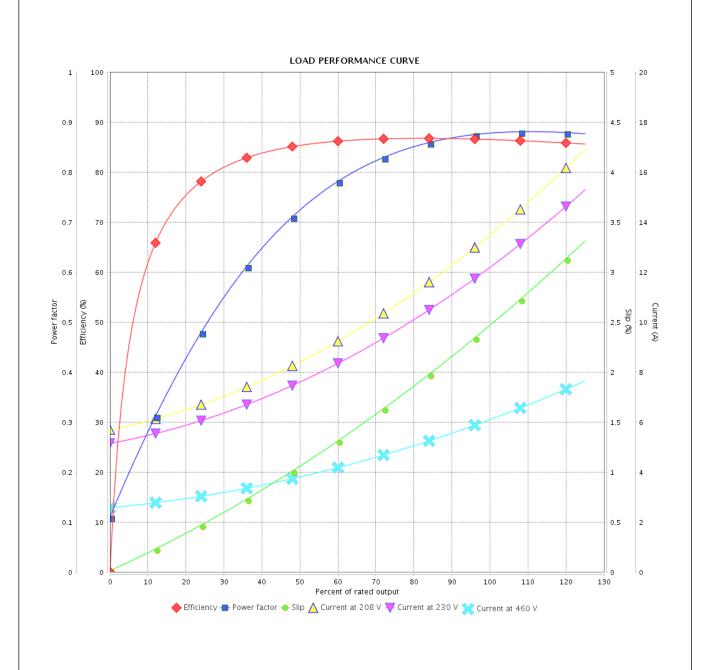
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482597

Catalog #: 00536OT3E182JMV-S



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	12.2/6.10 A	Moment o	f inertia (J)	: 0.1386 sq.ft.lb	
LRC	:	7.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	7.48 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	190 %	Service fa	ctor	: 1.15	
Breakdown torque		300 %	Temperati	Temperature rise		
Rated speed	:	3510 rpm	510 rpm Design		: B	
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LOAD PERFORMANCE CURVE

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Customer

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Date

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

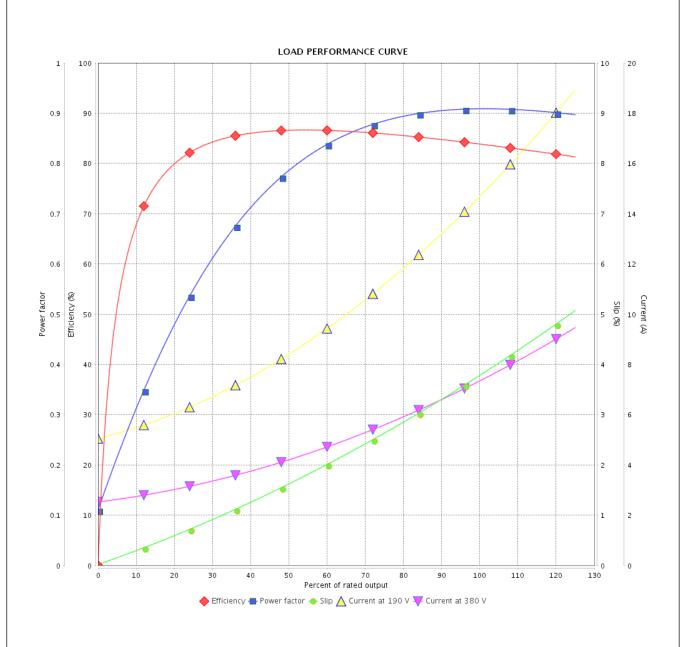
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Catalog #: 00536OT3E182JMV-S

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Revision



Performance : 190/380 V 50 Hz 2P : 14.7/7.37 A Rated current Moment of inertia (J) : 0.1386 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 9.10 ft.lb : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2885 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



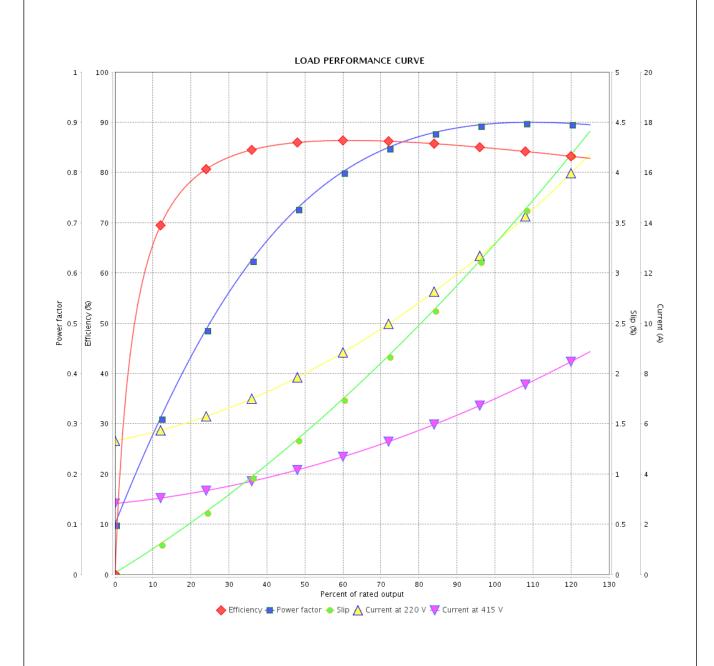
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482597

Catalog #: 00536OT3E182JMV-S



Performance	:	220/415 V 50 Hz 2P				
Rated current	Rated current : 13.2/7.01 A		Moment o	f inertia (J)	: 0.1386 sq.ft.lb	
LRC	:	6.5	Duty cycle	!	: Cont.(S1)	
Rated torque	:	9.05 ft.lb	Insulation	class	: F	
Locked rotor torque	:	170 %	Service fa	ctor	: 1.00	
Breakdown torque		250 %	Temperati	Temperature rise		
Rated speed		2900 rpm	Design		: B	
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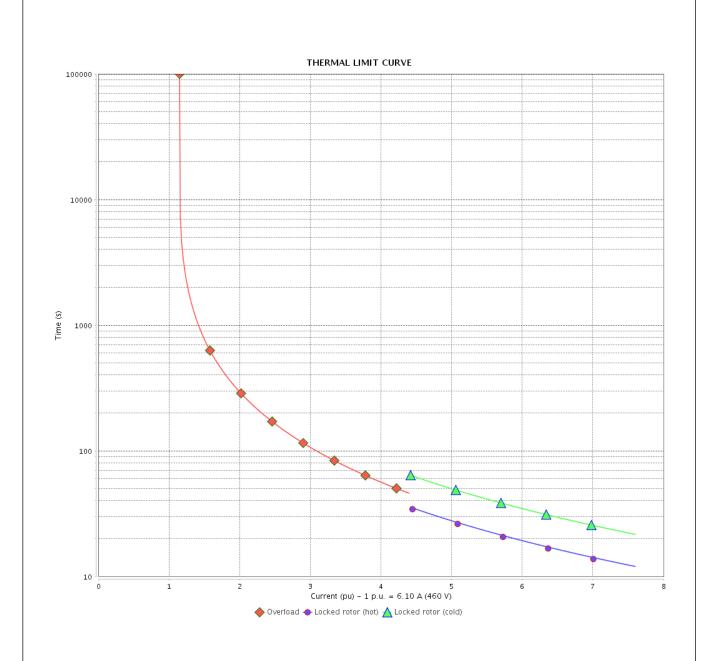


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Product line	: . Fi	JM Pump NEMA Premium fficiency Three-Phase	F	Product code :	13482597	
		moleracy Tribe Tribac	(Catalog # :	00536OT3E	182JMV-S
Performance	. 2:	30/460 V 60 Hz 2P				
Rated current	: 12	2.2/6.10 A	Moment of	f inertia (J)	: 0.1386 sq.ft.	lb
LRC Rated torque	: 7. · 7	6 48 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	jue : 19	90 %	Service fac	ctor	: 1.15	
Breakdown torqu Rated speed		00 % 510 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant						
Cooling constant		Change Current	Т	Dowfo J	Oh a slice sl	Dete
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

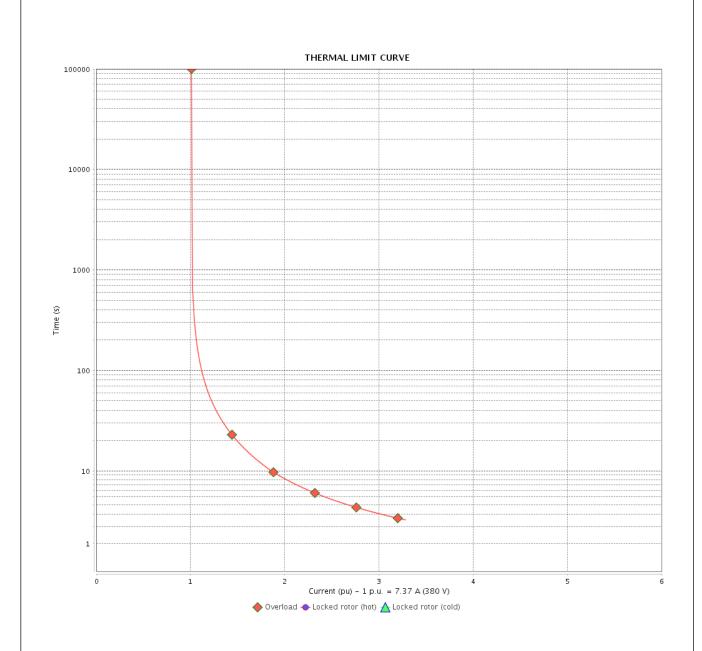


Customer	:					
Product line	:.	JM Pump NEMA Premium fficiency Three-Phase	I	Product code :	13482597	
				Catalog # :	00536OT3E	182JMV-S
Performance		90/380 V 50 Hz 2P		5 : (: ()	0.4000 %	
Rated current LRC	: 1 ⁴ : 5.	4.7/7.37 A 8	Duty cycle	f inertia (J)	: 0.1386 sq.ft.l : Cont.(S1)	D
Rated torque		10 ft.lb 50 %	Insulation Service fa	class	: F : 1.00	
Locked rotor torque Breakdown torque		20 %	Temperatu		: 1.00 : 105 K	
Rated speed		385 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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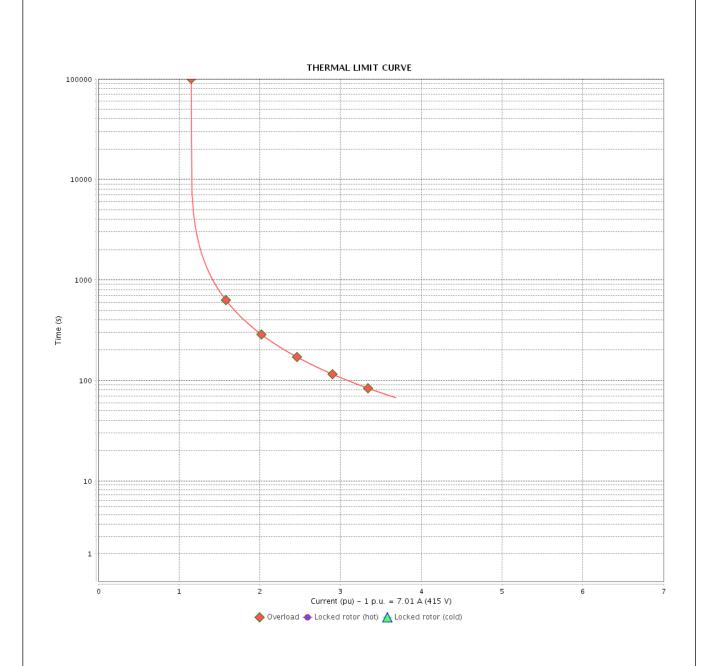


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Product line	: . E:	JM Pump NEMA Premium fficiency Three-Phase	ſ	Product code :	13482597		
	_	molency Three-i hase	(Catalog # :	00536OT3E1	82JMV-S	
Performance		20/415 V 50 Hz 2P			0.4000 %1		
		: 13.2/7.01 A Moment of Duty cycle			: 0.1386 sq.ft.l : Cont.(S1)		
Rated torque		.05 ft.lb 70 %	Insulation Service fac	class	: F : 1.00		
Locked rotor torque Breakdown torque		70 % 50 %	Temperatu		: 1.00 : 80 K		
Rated speed		900 rpm	Design		: B		
Heating constant							
Cooling constant Rev.		Changes Summers	Ι	Performed	Checked	Date	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



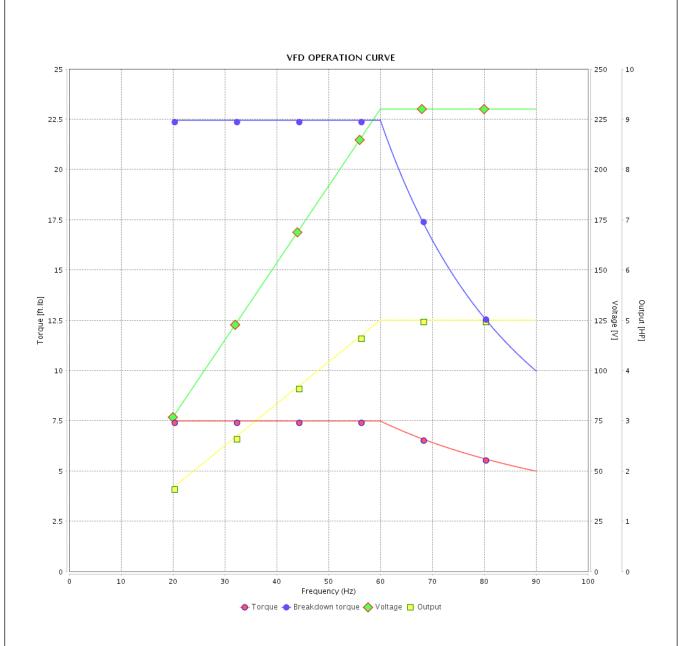
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Efficiency Three-Phase

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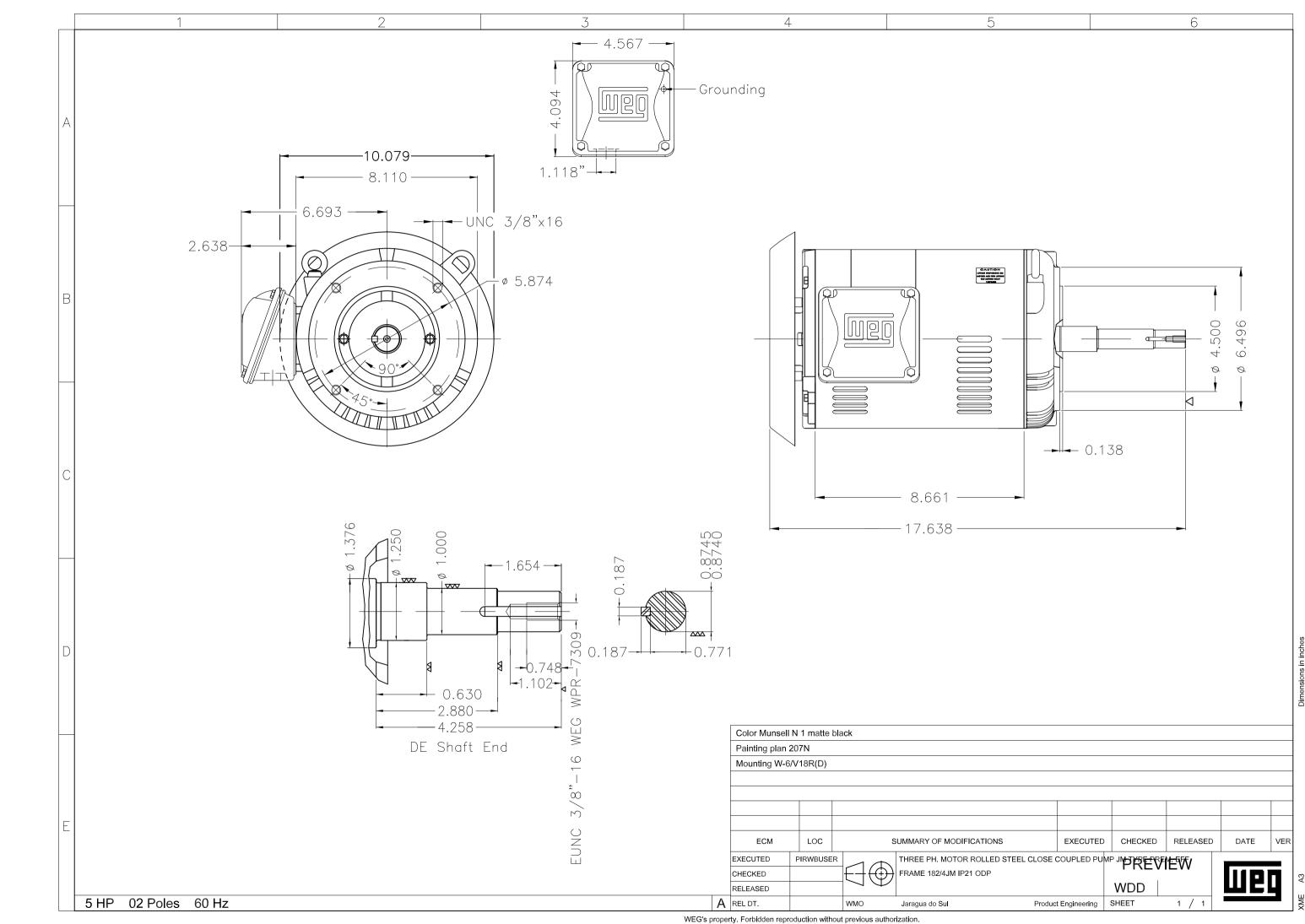


Performance	: 230/460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.2/6.10 A : 7.6 : 7.48 ft.lb : 190 % : 300 % : 3510 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1386 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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MODEL 00536OT3E182JMV-S

N01.TODICOXON

MAT: 13482597

MADE IN MÉXICO

1000 m.a.s.l F AT 80K 182/4.IM CONT NSC

12.2/6.10 14.0/7.01

230/460

CODE DES SABLE @ 208V 13.5A 2°04 900

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT 50 Hz 5.0HP 14.7-13.0/7.37-6.87A LTERNATE RATING:

SF1.00 INC. 2

IEC 60034-1

SF1.00

190-220/380-415V

86.5%

NOM EFF

3510 1.15

ZPM 3FA 냃 쌆

EFF 83.8%

2885RPM

8205-ZZ

ODE

8207-ZZ

삠

MOBIL POLYREX EM

T6

T2-WHT

T4-YEL

r3-org 1-BLU







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