DATA SHEET

Three Phase Induction Motor - Squirrel Cage



86.2

84.7

0.47

0.75

0.85

0.90

Customer Product line : JM Pump NEMA Premium Product code: 13171654 Efficiency Three-Phase Catalog #: 00536OT3E182JM-SG Frame : 182/4JM Cooling method : IC01 - ODP Insulation class Mounting : F-1 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 : 62.9 lb Design : B Moment of inertia (J) : 0.1386 sq.ft.lb Output [HP] 5 5 5 Poles 2 2 2 50 Frequency [Hz] 60 50 Rated voltage [V] 230/460 220/415 190/380 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 [RPM] 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 1.00 1.00 1.15 105 K Temperature rise 80 K 80 K 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 21s (cold) 12s (hot) Noise level² 65.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 85.2 88.3 87.1 50% 85.5 86.5 86.0 Efficiency (%)

86.0

83.8

0.51

0.79

0.88

0.91

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

Bearing type : 6207 ZZ 6205 ZZ Max. traction : 113 lb Sealing : Without Without Max. compression : 176 lb

Bearing Seal Bearing Seal

86.5

86.5

0.45

0.73

0.83

0.88

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

Notes

Power Factor

USABLE @208V 13.5A SF 1.00 SFA 13.5A

75%

100%

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 /	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



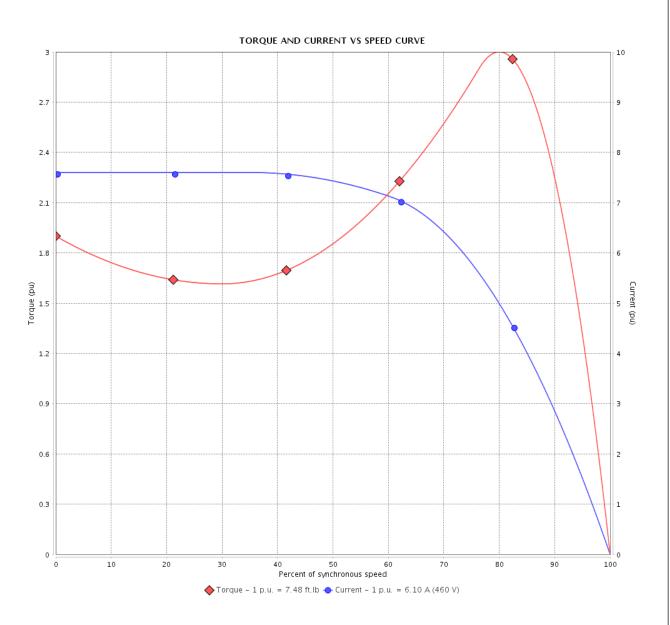
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13171654

Catalog #: 00536OT3E182JM-SG



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) : F : 7.48 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 190 % Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



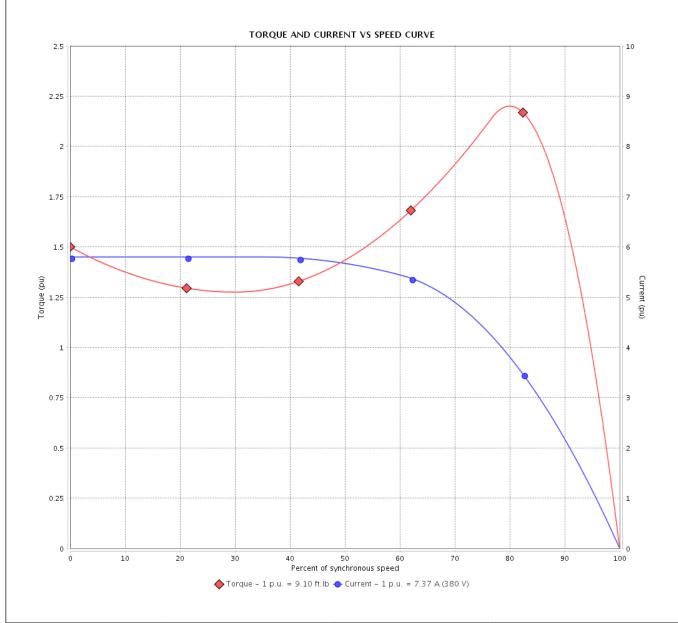
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13171654

Catalog #: 00536OT3E182JM-SG



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) Insulation class : F Rated torque : 9.10 ft.lb : 1.00 Locked rotor torque : 150 % Service factor Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2885 rpm Design : B Locked rotor time : 0s (cold) 0s (hot)

		, , , ,			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3/	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



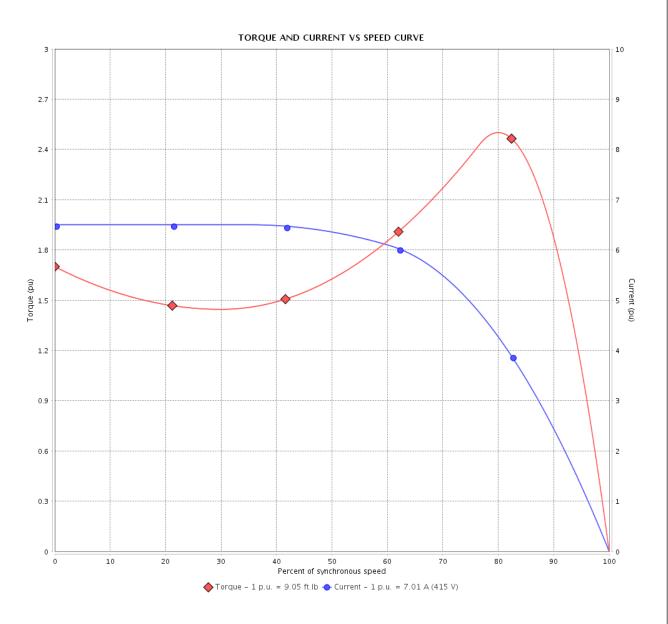
Customer :

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13171654

Catalog #: 00536OT3E182JM-SG



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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 /	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



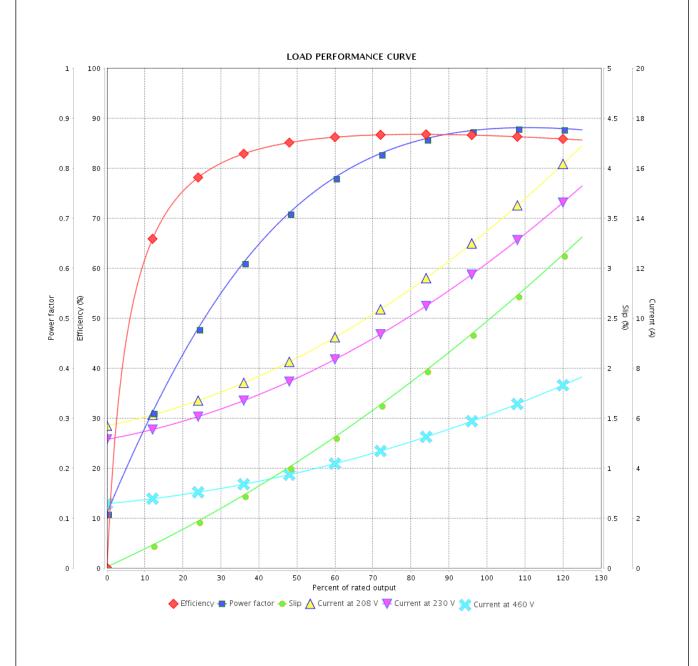
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13171654

Catalog #: 00536OT3E182JM-SG



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 factor		: 1.15	
Breakdown torque	:	: 300 % Tempe		Temperature rise		
Rated speed	:	3510 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				5 /	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

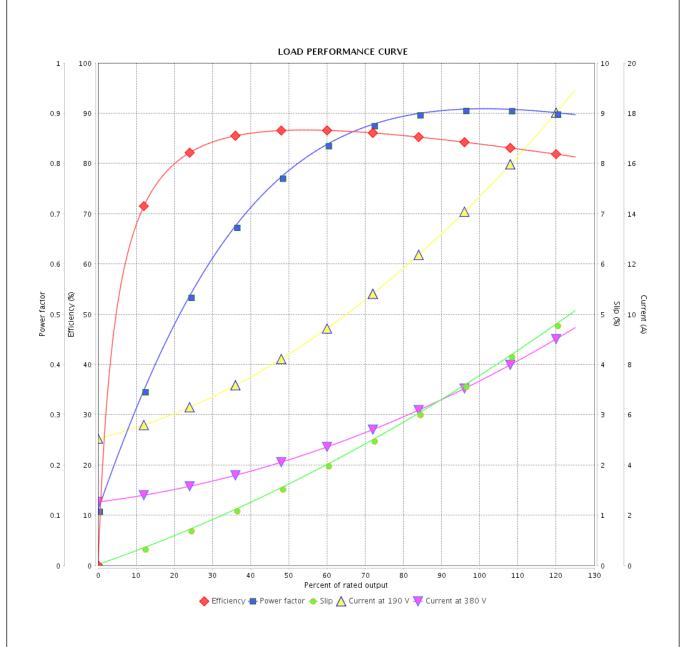
Product code: 13171654

Catalog #: 00536OT3E182JM-SG

Page

6/

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

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



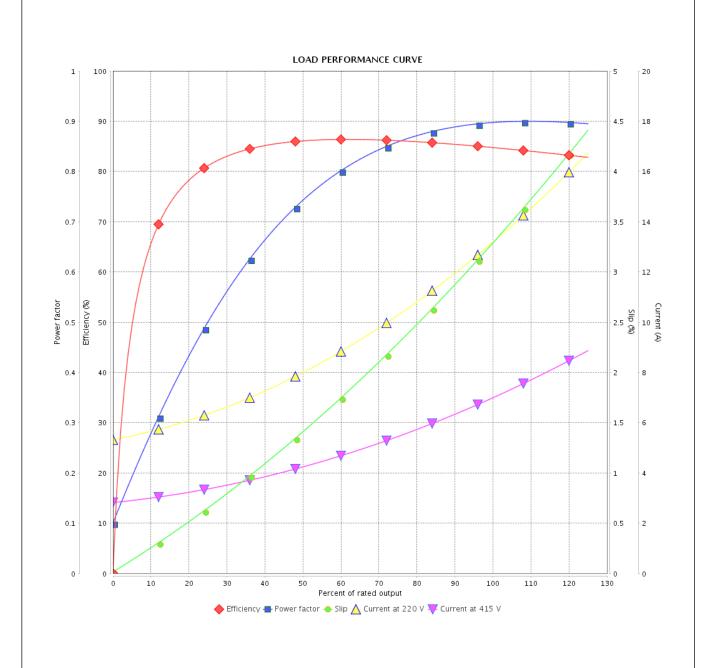
Customer

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13171654

Catalog #: 00536OT3E182JM-SG



Performance	: 2	20/415 V 50 Hz 2P				
Rated current	: 1	3.2/7.01 A	Moment o	f inertia (J)	: 0.1386 sq.ft.	lb
LRC	: 6	.5	Duty cycle	;	: Cont.(S1)	
Rated torque		.05 ft.lb	Insulation	class	: F ` ´	
Locked rotor torqu	ie : 1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	50 %	Temperature rise		: 80 K	
Rated speed	: 2	900 rpm	Design		: B	
Rev.		Changes Summary	'	Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	13/04/2022				7 /	

Three Phase Induction Motor - Squirrel Cage

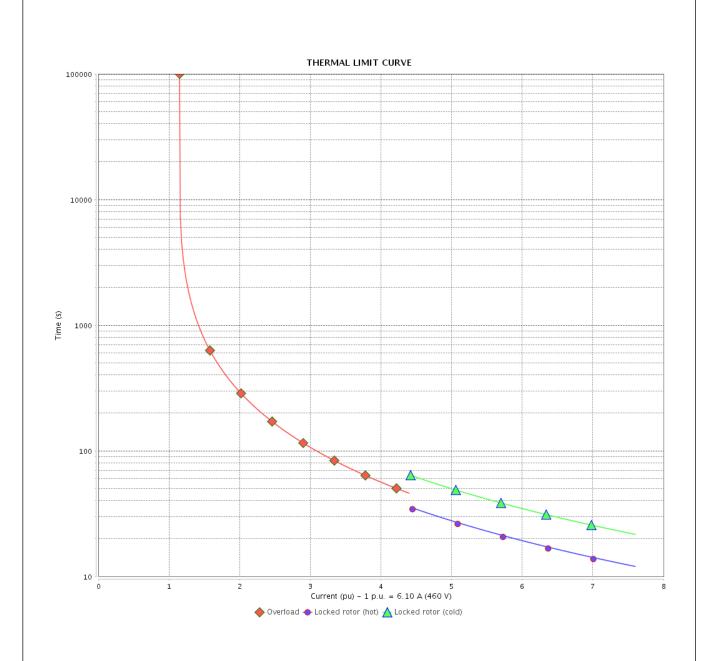


Customer	:					
Product line	:,	JM Pump NEMA Premium		Product code :	13171654	
	E	Efficiency Three-Phase		Catalog # :	00536OT3E1	102 IM CC
Performance		30/460 V 60 Hz 2P				
Rated current LRC	: 1: : 7.	2.2/6.10 A .6	Moment of Duty cycle	f inertia (J)	: 0.1386 sq.ft.l : Cont.(S1)	b
Rated torque	: 7.	.48 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 00 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		510 rpm	Design	100	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Dorfor II		T				
Performed by		-			Dogo	Povinia -
Checked by	12/04/2022	_			Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			9 /	

Three Phase Induction Motor - Squirrel Cage

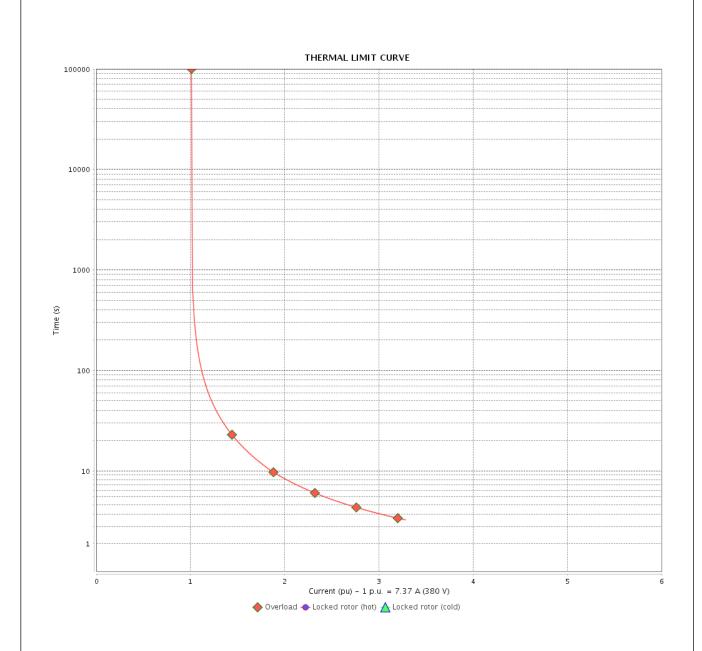


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13171654	
		Lindericy Times Triacs		Catalog # :	00536OT3E1	182JM-SG
Performance		190/380 V 50 Hz 2P				
Rated current LRC		14.7/7.37 A 5.8	Moment o	of inertia (J)	: 0.1386 sq.ft.l : Cont.(S1)	b
Rated torque	:	9.10 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		150 % 220 %	Service fa Temperati		: 1.00 : 105 K	
Rated speed		2885 rpm	Design	ure rise	: B	
Heating constant	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					-	.
Checked by	13/04/2022				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			11 /	

Three Phase Induction Motor - Squirrel Cage

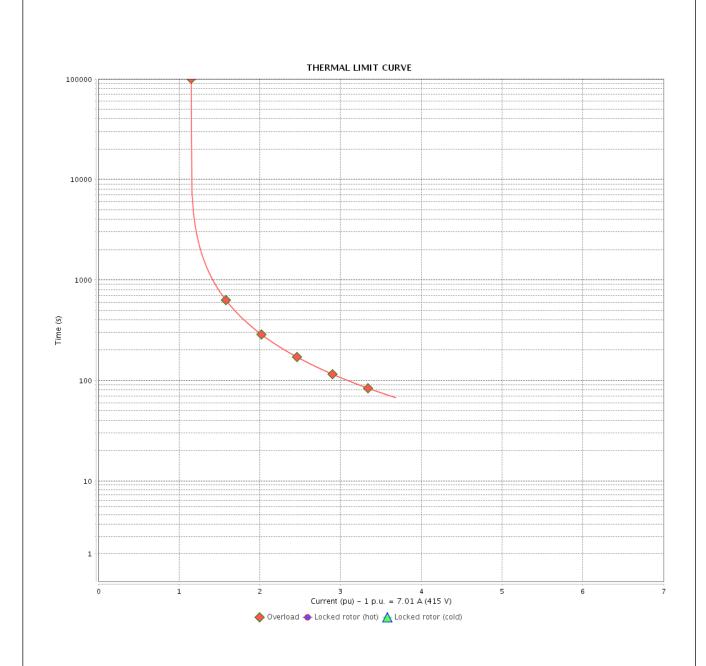


Customer		:				
Product line		: JM Pump NEMA Premium Efficiency Three-Phase		Product code :	13171654	
		Ellicioney Three-i hase		Catalog # :	00536OT3E	182JM-SG
D. (000/4453/5044_0D				
Performance Rated current		220/415 V 50 Hz 2P 13.2/7.01 A	Momont	of inertia (J)	: 0.1386 sq.ft.l	lh.
LRC		6.5	Duty cycle	e inertia (J)	: Cont.(S1)	ID
Rated torque		9.05 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		170 % 250 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		2900 rpm	Design	ure rise	: B	
Heating constan						
Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				12 /	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			13 /	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

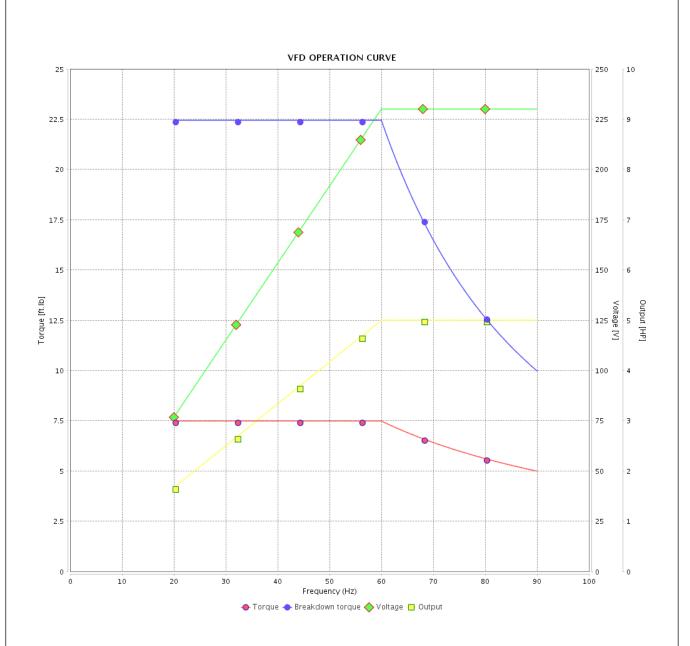
Checked by

Product line : JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 13171654

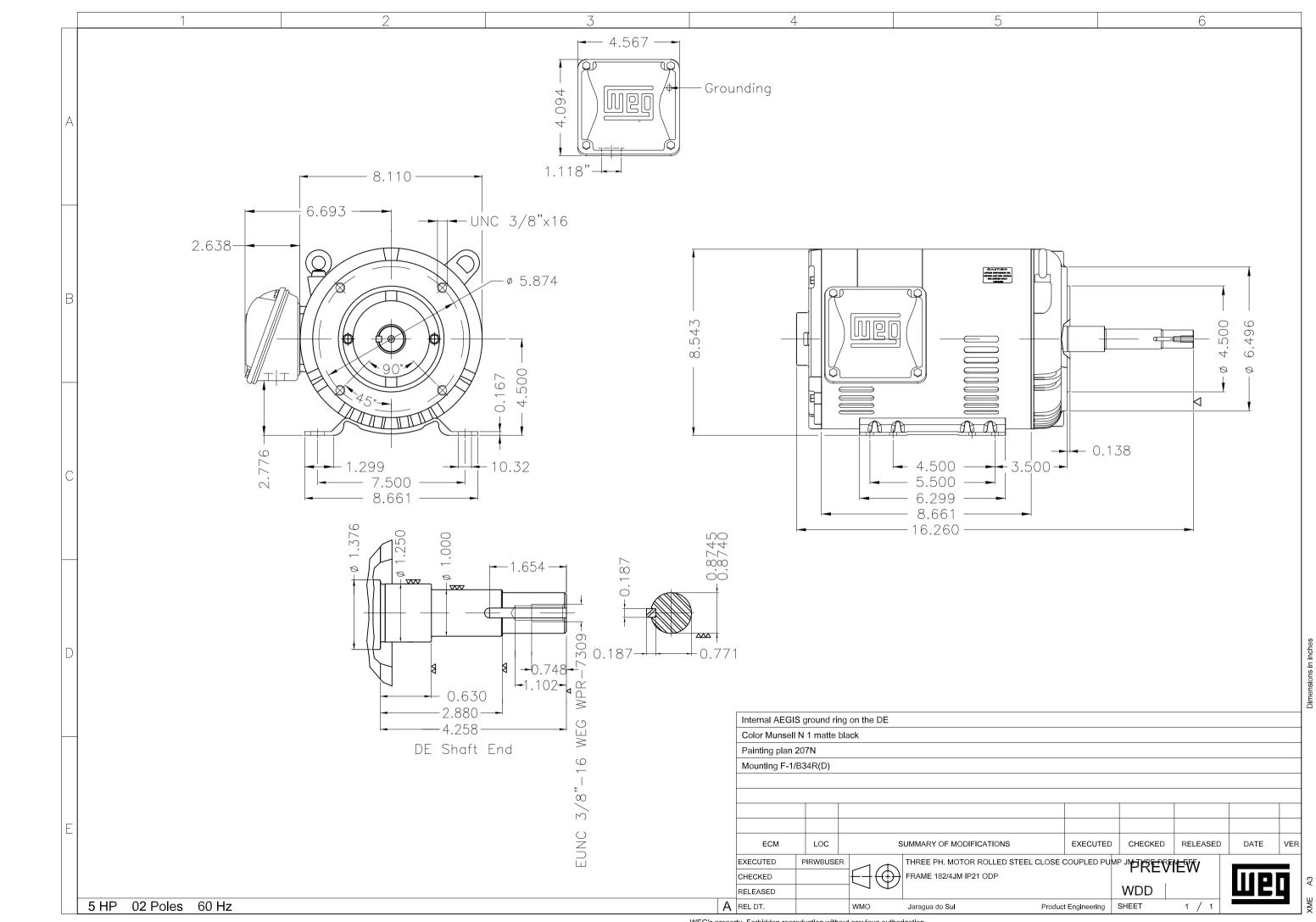
Catalog #: 00536OT3E182JM-SG



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

Page

Revision





¥EX V

3PT9

CC029A

13171654

MADE IN MÉXICO

N01.TODICOXON

& Energy Verifi (**UL)**US LISTED

> MODEL 005360T3E182JM-SG Hz 60 S/N 182/4.IM 31JAN2022

DES 1000 m.a.s.l F AT 80K CONT 2°04 900

NSC

12.2/6.10 14.0/7.01

230/460

CODE SABLE @ 208V 13.5A LTERNATE RATING:

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

SF1.00 INC. 2

50 Hz

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

1-BLU

T4-YEL

r3-org T7-PNK T9-BRK T5-BLK





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

