## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : JP Pump NEMA Premium Product code: 14328049

Efficiency Three-Phase

Catalog #: 00536ET3E184JP-S

Frame : 182/4JP Cooling method : IC411 - TEFC

Insulation class : F 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 Altitude · 1000 m a s l Approx weight<sup>3</sup> · 89 8 lb

Altitude		: 1000 m.a.s.i.	Approx. weight	: 89.8 ID
Protection degree		: IP55	Moment of inertia (J)	: 0.2079 sq.ft.lb
Design		: B		
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]		11.8/5.90	14.3/7.17	12.8/6.81
L. R. Amperes [A]		92.0/46.0	91.8/45.9	91.2/48.4
LRC [A]		7.8x(Code J)	6.4x(Code G)	7.1x(Code H)
No load current [A	]	4.40/2.20	4.34/2.17	4.39/2.33
Rated speed [RPN	<b>/</b> []	3500	2860	2875
Slip [%]		2.78	4.67	4.17
Rated torque [ft.lb]	]	7.50	9.18	9.13
Locked rotor torqu	e [%]	220	180	200
Breakdown torque	[%]	300	250	280
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	87.2	89.8	89.3
Efficiency (9/)	50%	87.5	88.1	88.1
Efficiency (%)	75%	88.5	87.3	87.8
	100%	88.5	85.2	86.2
	25%	0.49	0.55	0.52
Power Factor	50%	0.76	0.82	0.79
I Power Factor ⊢				

Non drive end Drive end Foundation loads

0.89

0.92

Bearing type 6207 ZZ 6205 ZZ Max. traction : 118 lb Without Sealing V'Ring Max. compression : 208 lb

0.85

0.89

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

Power Factor

USABLE @208V 13.1A SF 1.00 SFA 13.1A

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.

0.87

0.91

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 16	

## TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage



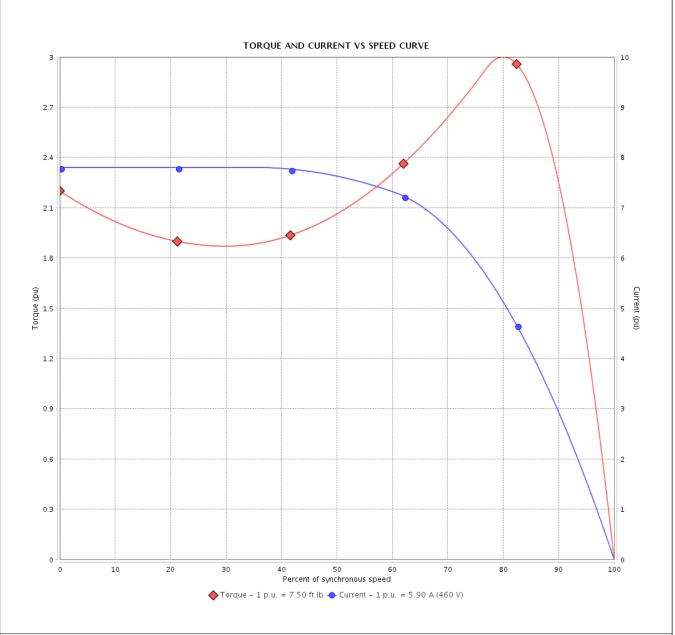
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328049

Catalog #: 00536ET3E184JP-S



Performance : 230/460 V 60 Hz 2P Rated current : 11.8/5.90 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : F : 7.50 ft.lb Insulation class Rated torque : 220 % Service factor : 1.15 Locked rotor torque Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 16	

### TORQUE AND CURRENT VS SPEED CURVE

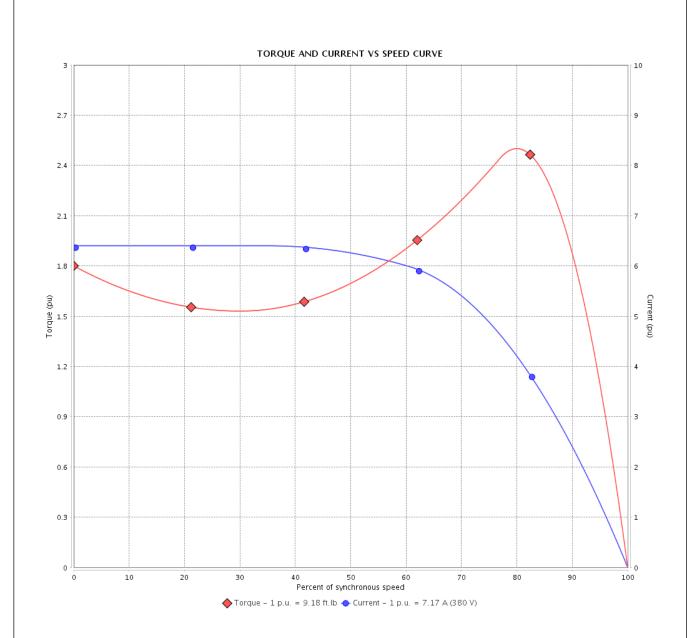
### Three Phase Induction Motor - Squirrel Cage



00536ET3E184JP-S

Customer Product line : JP Pump NEMA Premium Product code: 14328049 Efficiency Three-Phase

Catalog #:



Performance : 190/380 V 50 Hz 2P Rated current : 14.3/7.17 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.18 ft.lb Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K : B Rated speed : 2860 rpm Design Locked rotor time : 0s (cold) 0s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 16	

## TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage



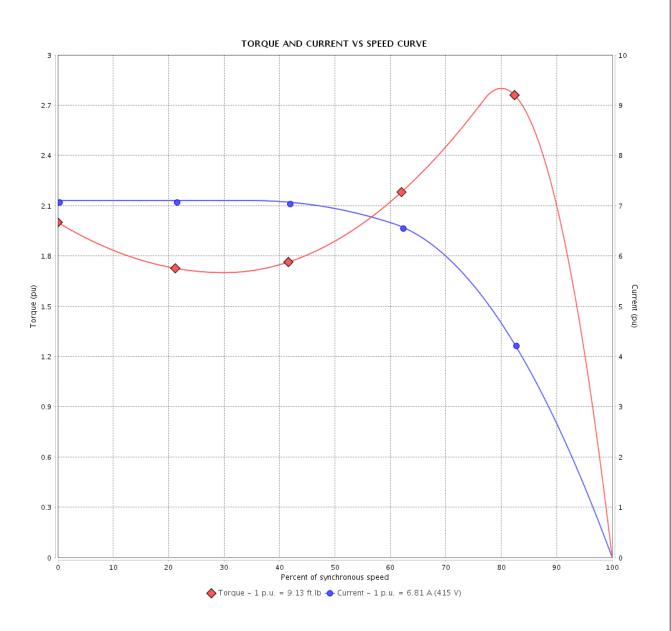
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328049

Catalog #: 00536ET3E184JP-S



Performance : 220/415 V 50 Hz 2P Rated current : 12.8/6.81 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.13 ft.lb : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 2875 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 / 16	

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



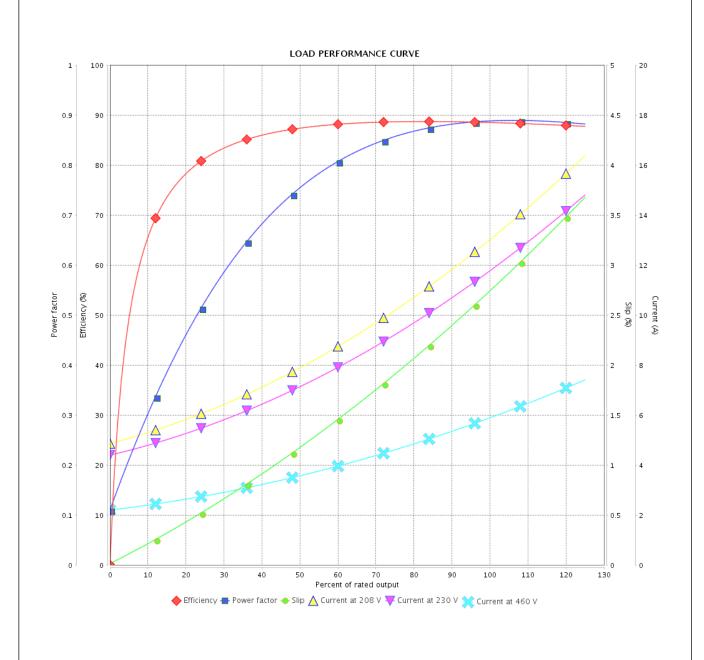
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328049

Catalog #: 00536ET3E184JP-S



Performance	::	230/460 V 60 Hz 2P				
Rated current	rent : 11.8/5.90 A Moment		Moment o	f inertia (J)	: 0.2079 sq.ft.lb	
LRC	:	7.8	Duty cycle		: Cont.(S1)	
Rated torque	:	7.50 ft.lb	Insulation	class	: F	
Locked rotor torq	ue :	220 %	Service fa	ctor	: 1.15	
Breakdown torque : 30		300 %	Temperature rise		: 80 K	
Rated speed	:	3500 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				5 / 16	

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 16

Customer :

Checked by

Date

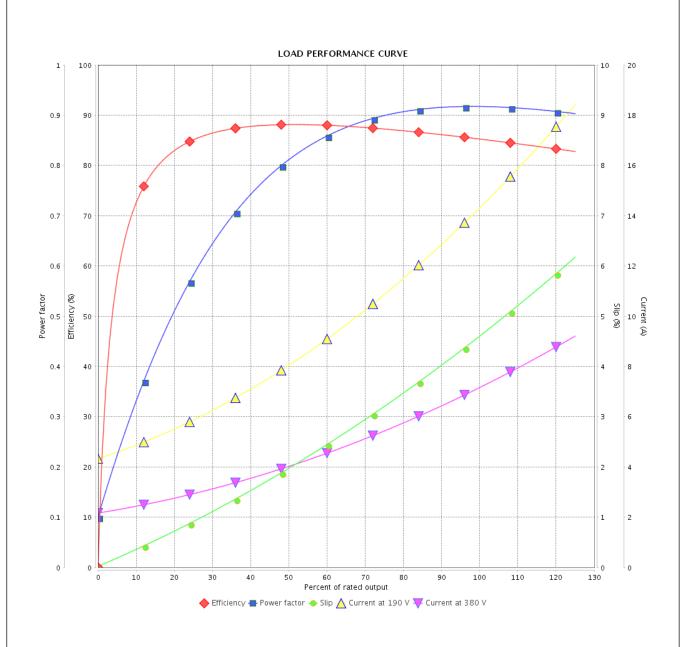
13/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328049

Catalog #: 00536ET3E184JP-S



Performance : 190/380 V 50 Hz 2P : 14.3/7.17 A Rated current Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.18 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2860 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



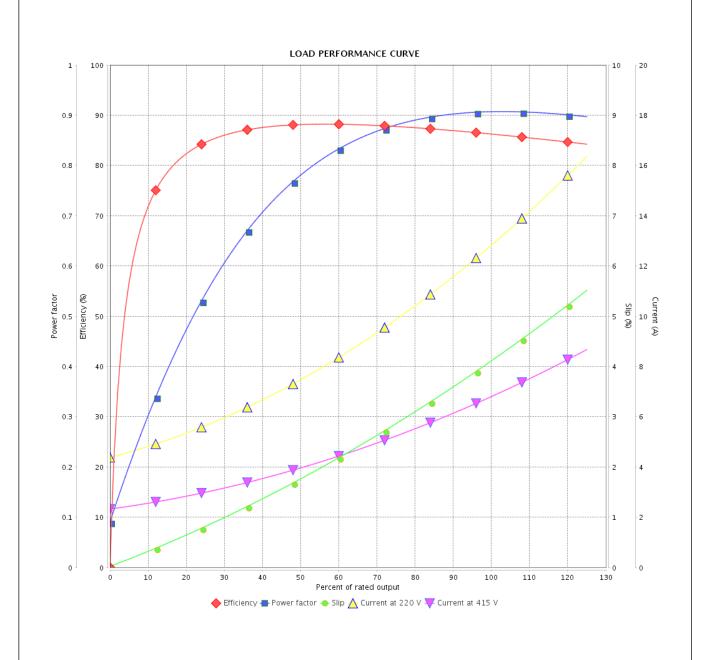
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328049

Catalog #: 00536ET3E184JP-S



Performance	: 2	220/415 V 50 Hz 2P				
Rated current	d current : 12.8/6.81 A Mome		Moment o	f inertia (J)	: 0.2079 sq.ft.	lb
LRC	: 7	7.1	Duty cycle		: Cont.(S1)	
Rated torque	: 9	9.13 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	200 %	Service fa	ctor	: 1.00	
Breakdown torque : 28		280 %	Temperature rise		: 105 K	
Rated speed	: 2	2875 rpm	Design		: B	
Rev.		Changes Summary	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				7 / 16	

### Three Phase Induction Motor - Squirrel Cage

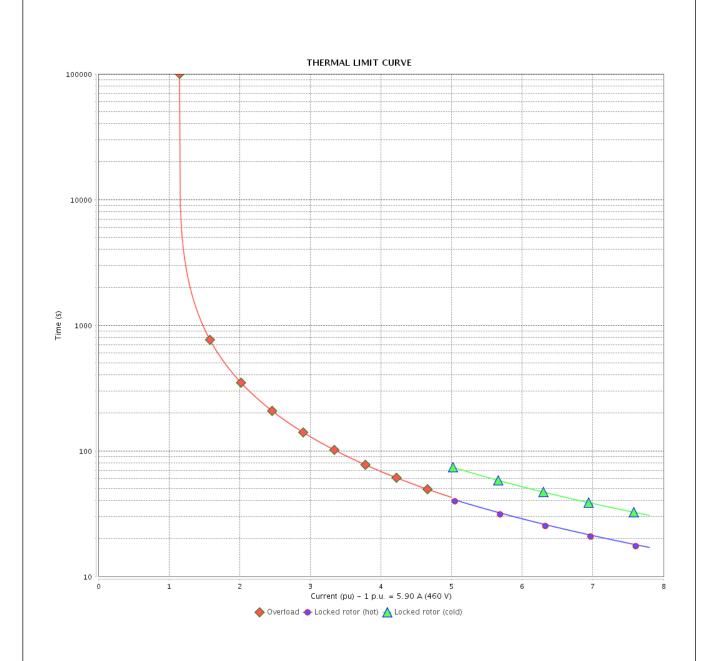


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14328049	
		Linciency Three-i hase		Catalog # :	00536ET3E1	84JP-S
Performance	:	230/460 V 60 Hz 2P				
Rated current		11.8/5.90 A	Moment of	of inertia (J)	: 0.2079 sq.ft.l	b
LRC		7.8	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor tord		7.50 ft.lb 220 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ue :	300 %	Temperat		: 80 K	
Rated speed	•	3500 rpm	Design		: B	
Heating constan						
Cooling constant	t	01 0			<u> </u>	<b>.</b>
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				8 / 16	IZGVISION

## Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			9 / 16	

### Three Phase Induction Motor - Squirrel Cage

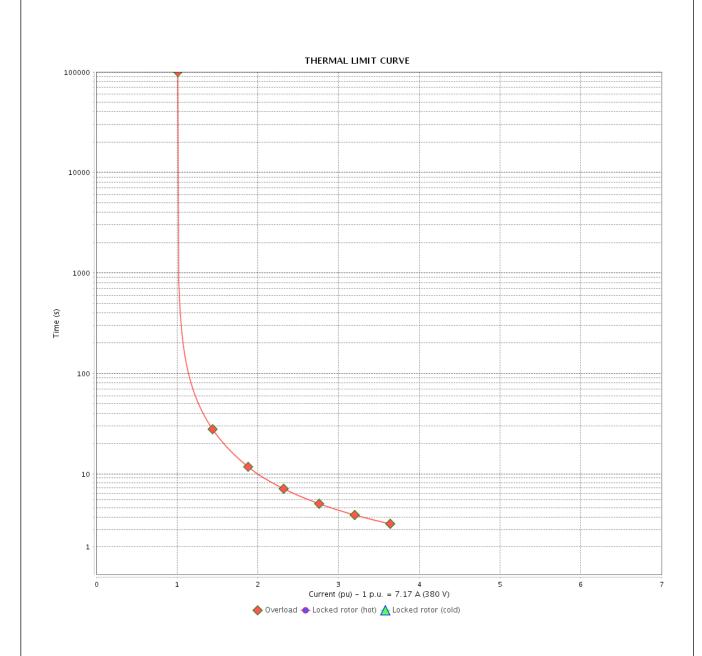


Customer	:				
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	l	Product code :	14328049	
		(	Catalog # :	00536ET3E	184JP-S
Performance	: 190/380 V 50 Hz 2P				
Rated current	: 14.3/7.17 A		f inertia (J)	: 0.2079 sq.ft.	lb
LRC Rated torque	: 6.4 : 9.18 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque		Service fa		: 1.00	
Breakdown torque	: 250 %	Temperatu	ıre rise	: 105 K	
Rated speed	: 2860 rpm	Design		: B 	
Heating constant					
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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Performed by					
Checked by				Page	Revision
Date	13/04/2022			10 / 16	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			11 / 16	

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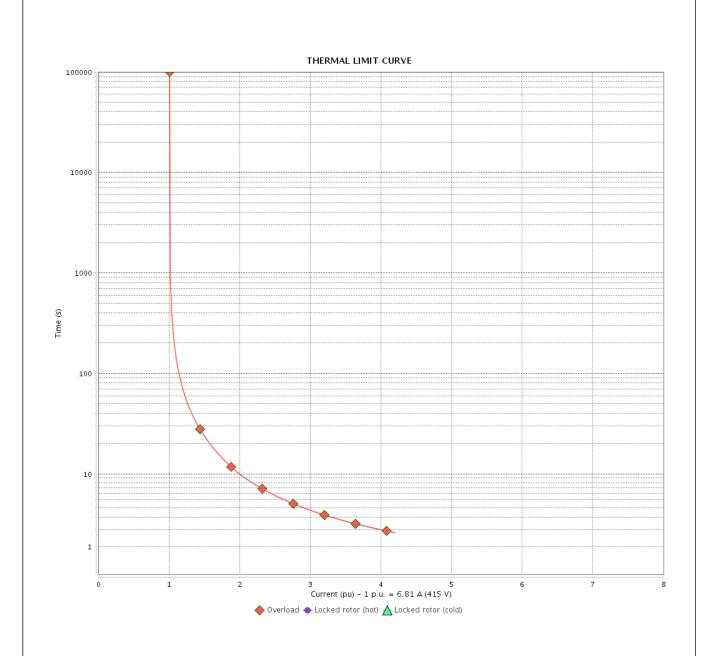


Customer	:					
Product line	:.	: JP Pump NEMA Premium		Product code :	14328049	
	E	fficiency Three-Phase	(	Catalog # :	00536ET3E1	84JP-S
<b>5</b>		20/445.7/50.11.0D				
Performance		20/415 V 50 Hz 2P 2.8/6.81 A	Moment	finartia (I)	: 0.2070 og ft l	h
Rated current LRC	: 7.	.1	Duty cycle	f inertia (J)	: 0.2079 sq.ft.l : Cont.(S1)	U
Rated torque		.13 ft.lb 00 %	Insulation Service fa	class	: F : 1.00	
Locked rotor torque Breakdown torque		30 % 80 %	Temperatu		: 1.00 : 105 K	
Rated speed		875 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Performed by		-			Dogo	Povision -
Checked by	40/04/000	_			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			13 / 16	

# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

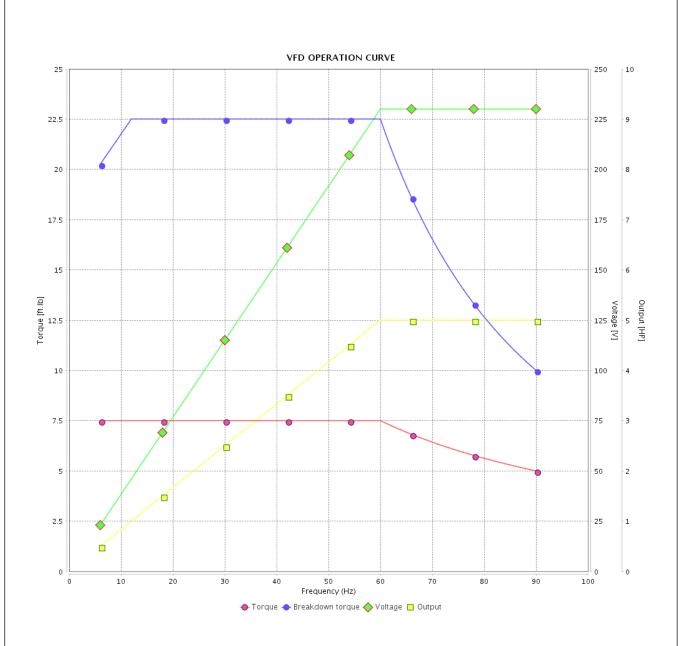
13/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328049

Catalog #: 00536ET3E184JP-S



Performance : 230/460 V 60 Hz 2P : 11.8/5.90 A Rated current Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : 7.50 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Page

14 / 16

Revision

# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



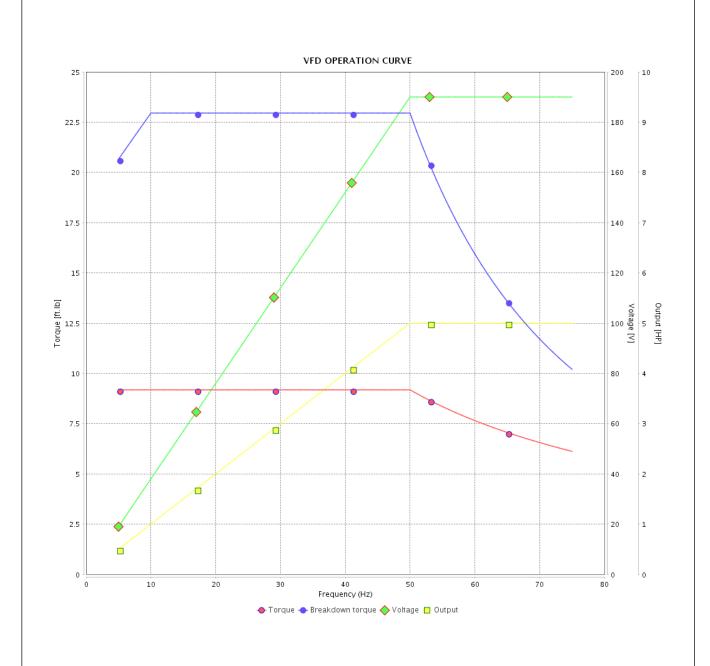
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328049

Catalog #: 00536ET3E184JP-S



Performance		: 190/380 V 50 Hz 2P						
Rated current	: 1	4.3/7.17 A	3/7.17 A Moment of inertia (J)		: 0.2079 sq.ft.lb			
LRC		.4	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque	: 9	.18 ft.lb	Insulation class		: F			
Locked rotor torqu	ue : 1	80 %	Service fa	Service factor		: 1.00		
Breakdown torque	e : 2	50 %	Temperati	Temperature rise		: 105 K		
Rated speed	: 2	: 2860 rpm Des			: B			
Rev.	ev. Changes Summary		у	Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	13/04/2022				15 / 16			

# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

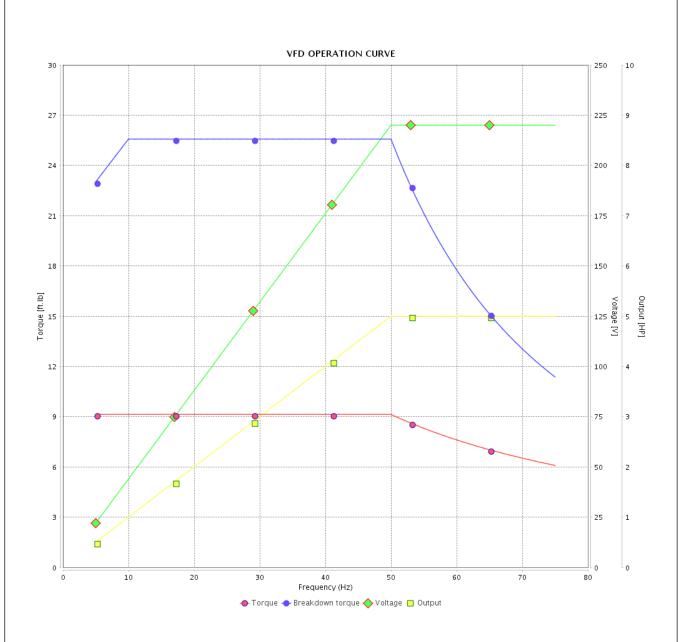
13/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14328049

Catalog #: 00536ET3E184JP-S

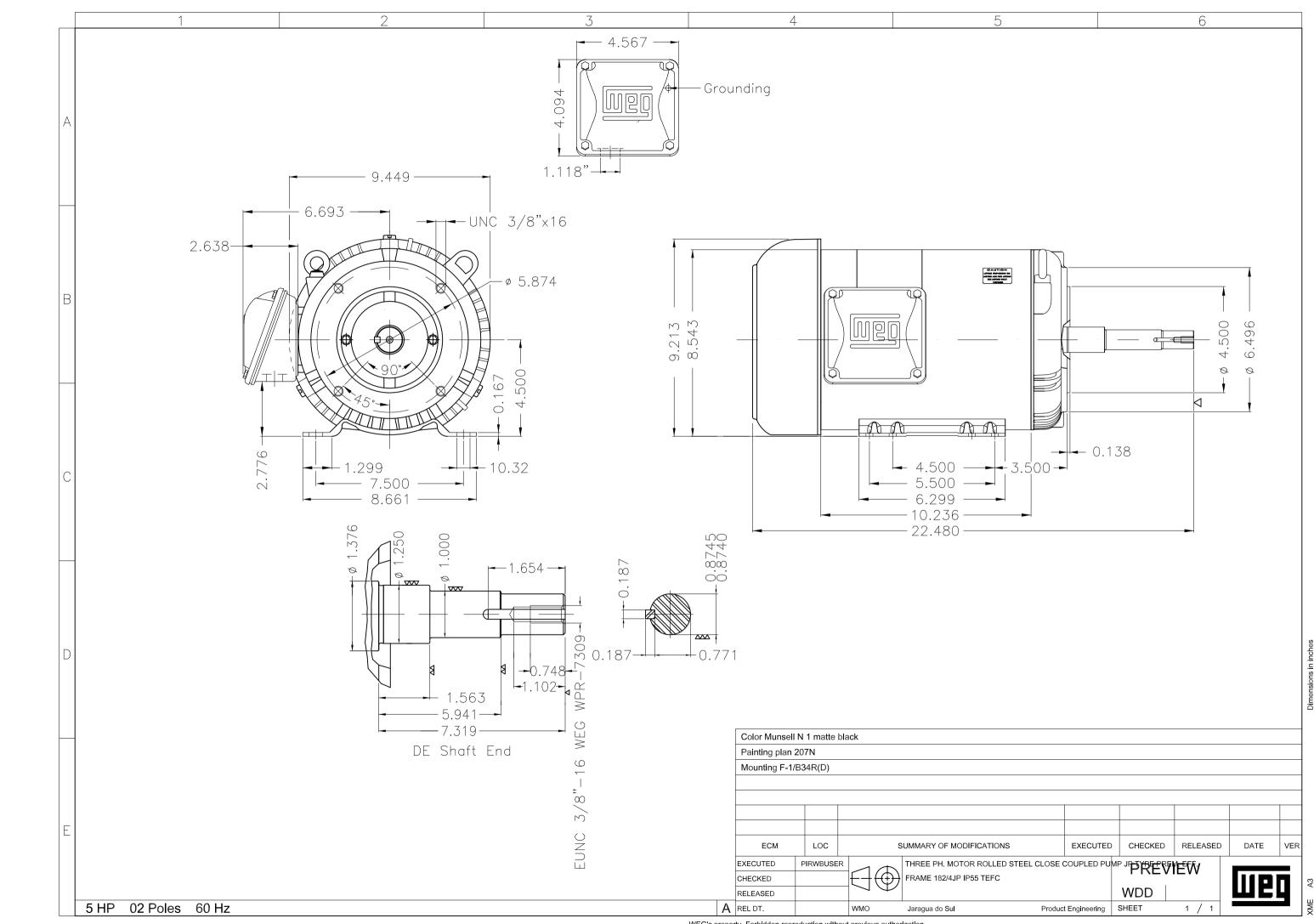


Performance : 220/415 V 50 Hz 2P : 12.8/6.81 A Rated current Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.13 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 2875 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Page

16 / 16

Revision





NEX

(**UL)**US LISTED FOR SAFE AREA

3PT9

**&** Energy Verifi

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

MODEL 00536ET3E184JP-S

N01.TE0IC0X0N

14328049

MADE IN MÉXICO

Hz 60 S/N

182/4.IP 7JAN2022

CONT

SCI

3FA 냃 P55 SH 1000 m.a.s.l F AT 80K

11.8/5.90 13.6/6.79

230/460

CODE

SABLE @ 208V 13.1A ALTERNATE RATING:

SF1.00 INC. W

TEFC <del>0</del>

1.15 NOM EFF ZPM 쌆 50 Hz

**EFF 85.2%** 88.5%

190-220/380-415V

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT MOBIL POLYREX EM

2860RPM

14.3-12.47.17-6.59A

ODE 6205-22 5.0HP

8207-ZZ

**JT6** 

IEC 60034-1

SF1.00

r3-org T7-PNK T9-BRK T5-BLK 1-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

T2-WHT T6-GRY T8-RED T4-YEL

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

AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

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