DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JP Pump NEMA Premium Product code : 14277192

Efficiency Three-Phase

Catalog #: 00518OT3E184JP-SG

Frame : 182/4JP 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 : 89.8 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 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

0.82

Bearing type : 6207 ZZ 6205 ZZ Max. traction : 244 lb Sealing : Without Without Max. compression : 334 lb

Bearing Seal Bearing Seal

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) / 11 100 / 10 11 10					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



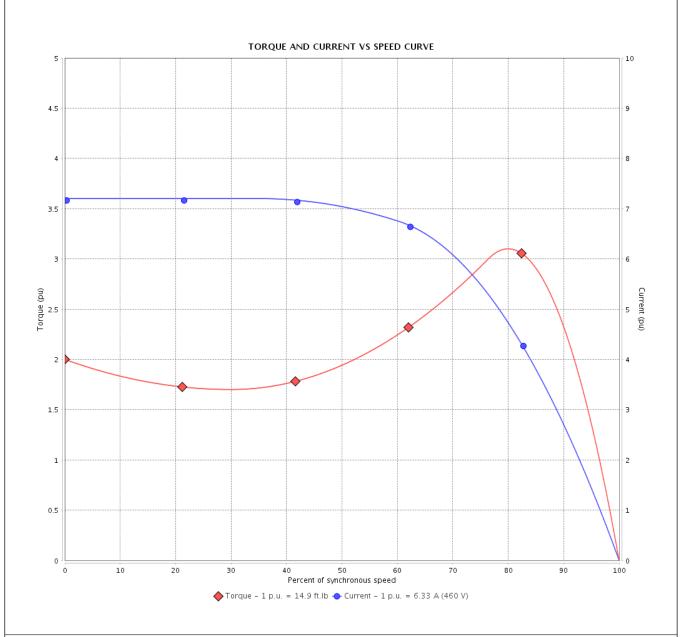
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14277192

Catalog #: 00518OT3E184JP-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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2/16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



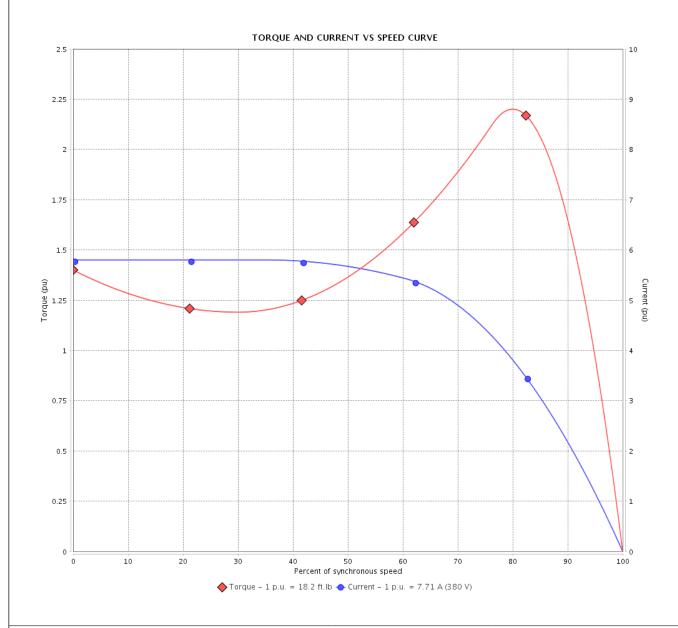
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14277192

Catalog #: 00518OT3E184JP-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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



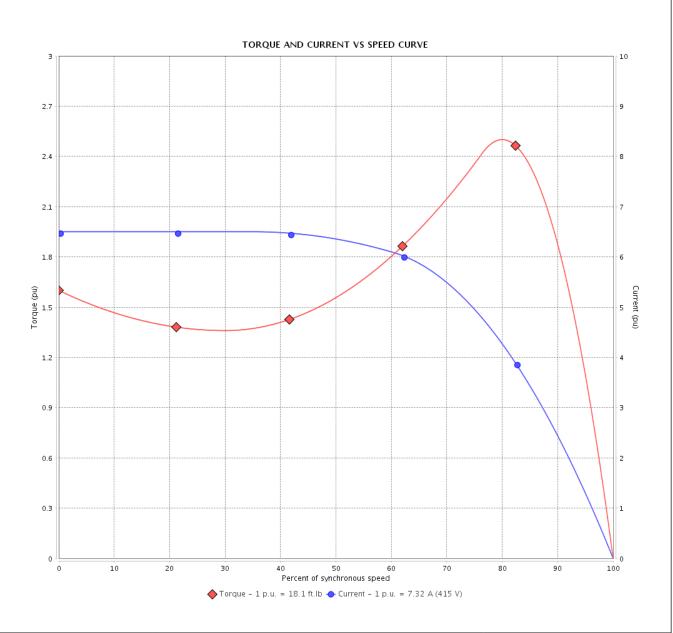
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14277192

Catalog #: 00518OT3E184JP-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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



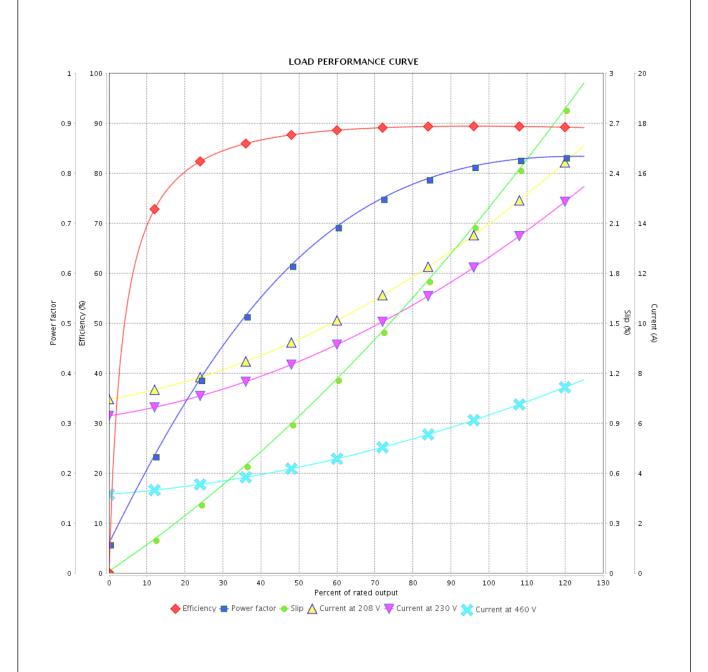
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14277192

Catalog #: 00518OT3E184JP-SG



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 1:	: 12.7/6.33 A		Moment of inertia (J)		.lb
LRC	: 7	.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	4.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	: 310 % Temperature rise		: 80 K		
Rated speed : 1760 rpm		Design	Design			
Rev.		Changes Summary		Performed	Checked	Date
		1				
Performed by						
Checked by					Page	Revision
Date	12/04/2022	1			5 / 16	

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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

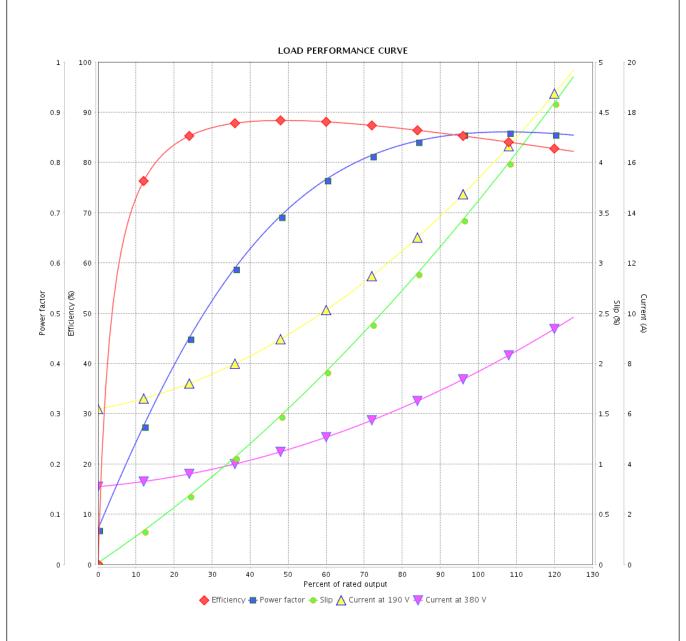
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14277192

Catalog #: 00518OT3E184JP-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

6/16

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Three Phase Induction Motor - Squirrel Cage



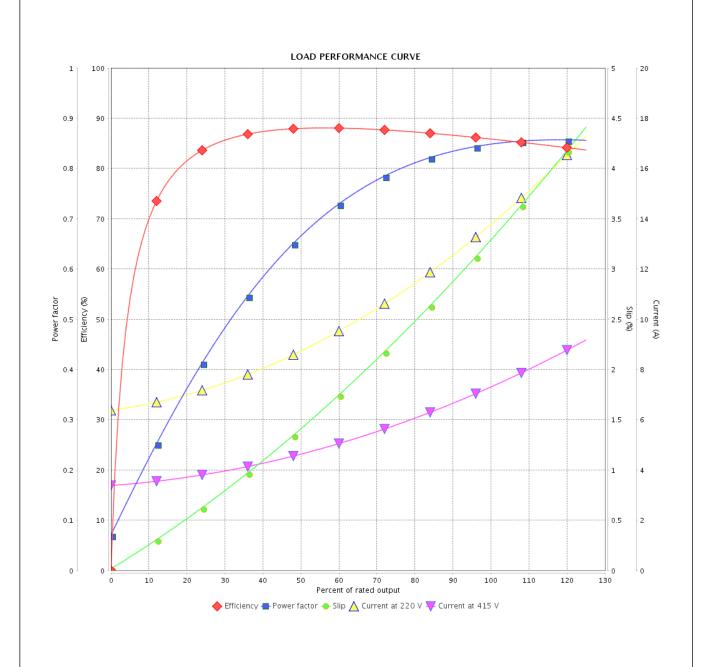
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14277192

Catalog #: 00518OT3E184JP-SG



Performance	: 2	20/415 V 50 Hz 4P				
Rated current	: 1	: 13.8/7.32 A		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	: 2	50 % Temperature rise		: 80 K		
Rated speed : 1450 rpm		Design		: B		
Rev.		Changes Summary	1	Performed	Checked	Date
		1				
Performed by						
Checked by					Page	Revision
Date	12/04/2022				7 / 16	

Three Phase Induction Motor - Squirrel Cage

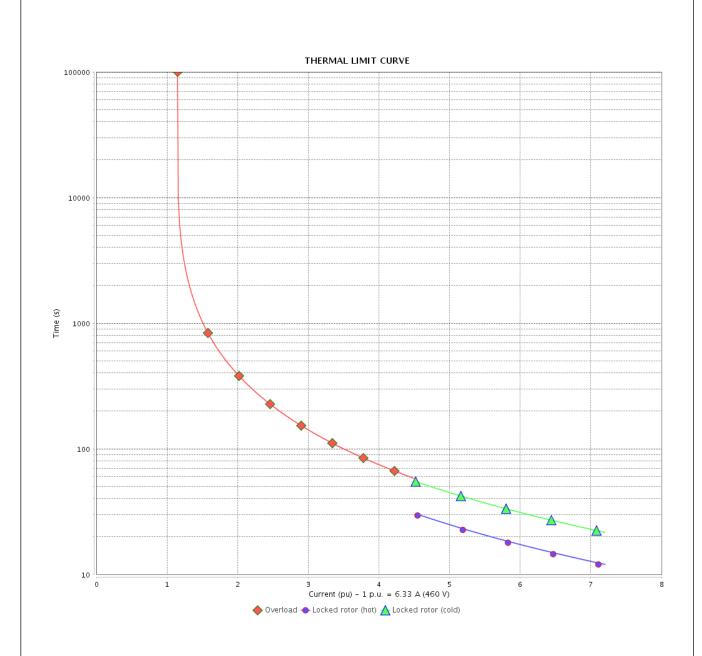


Customer	:					
Product line	:.	JP Pump NEMA Premium	ı	Product code :	14277192	
	E	fficiency Three-Phase	(Catalog # :	00518OT3E1	184JP-SG
Performance		30/460 V 60 Hz 4P			0.4000 (1.1	
Rated current LRC	: 12 : 7.	2.7/6.33 A 2	Moment of Duty cycle	inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	D
Rated torque		4.9 ft.lb 00 %	Insulation Service fac	class	: F : 1.15	
Locked rotor tord Breakdown torqu		10 %	Temperatu		: 1.15 : 80 K	
Rated speed		760 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	:	Changes Summers	Τ	Performed	Checked	Date
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D :	40/04/2222	1			0 / 10	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			9 / 16	

Three Phase Induction Motor - Squirrel Cage

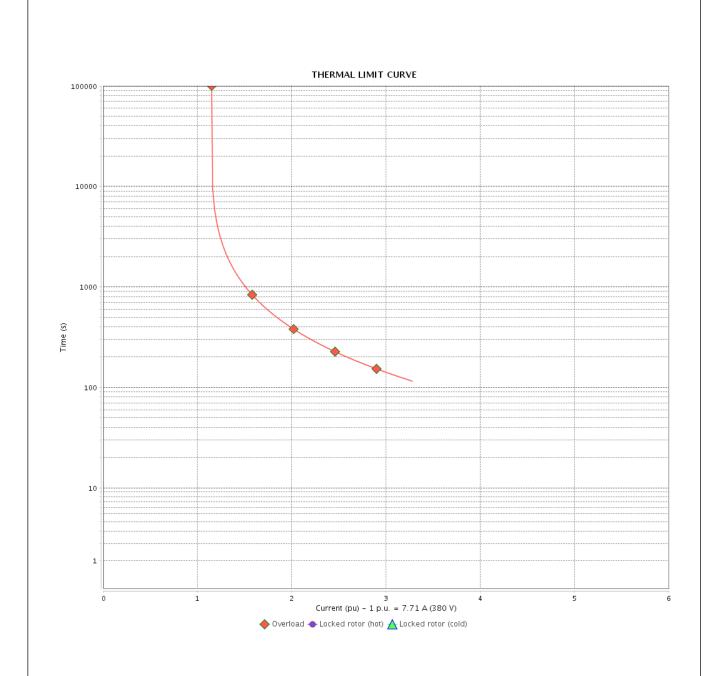


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14277192	
		Ellicities Tillee-i Hase		Catalog # :	00518OT3E1	84JP-SG
Performance		: 190/380 V 50 Hz 4P				
Rated current		: 15.4/7.71 A	Moment o	of inertia (J)	: 0.4003 sq.ft.l	
LRC		: 5.8	Duty cycle	Э	: Cont.(S1)	Б
Rated torque		: 18.2 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		: 140 % : 220 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1445 rpm	Design	uic lisc	: B	
Heating constan	ıt					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by	40/04/227				Page	Revision
Date	12/04/2022				10 / 16	

Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	12/04/2022			11 / 16	

Three Phase Induction Motor - Squirrel Cage

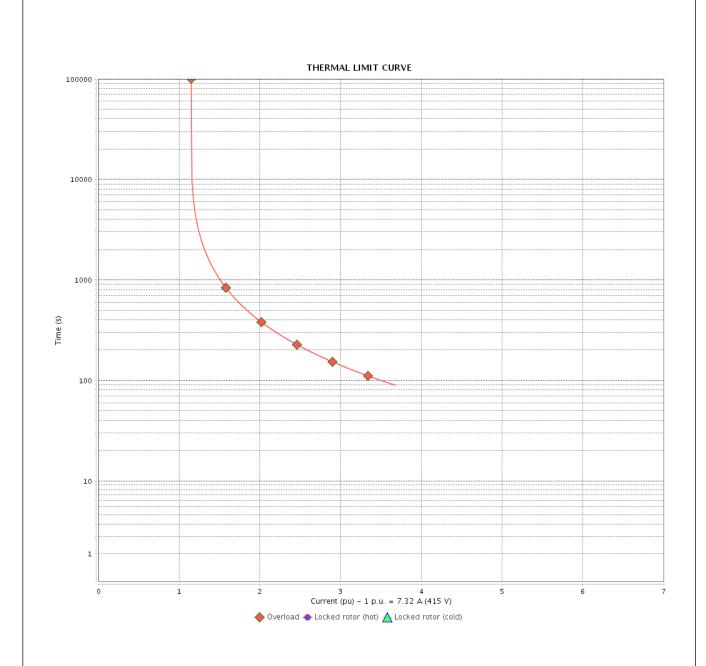


Customer		:				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	14277192	
		Lindericy Trifee-i flase		Catalog # :	00518OT3E1	84JP-SG
Performance	:	: 220/415 V 50 Hz 4P				
Rated current		: 13.8/7.32 A	Moment o	of inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque		: 6.5 : 18.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 160 %	Service fa		. г : 1.15	
Breakdown torqu	ue :	: 250 %	Temperat		: 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change Comm		Dest	Ohl !	D-1-
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
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Date	12/04/2022				12 / 16	TOVIDIOIT

Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			13 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

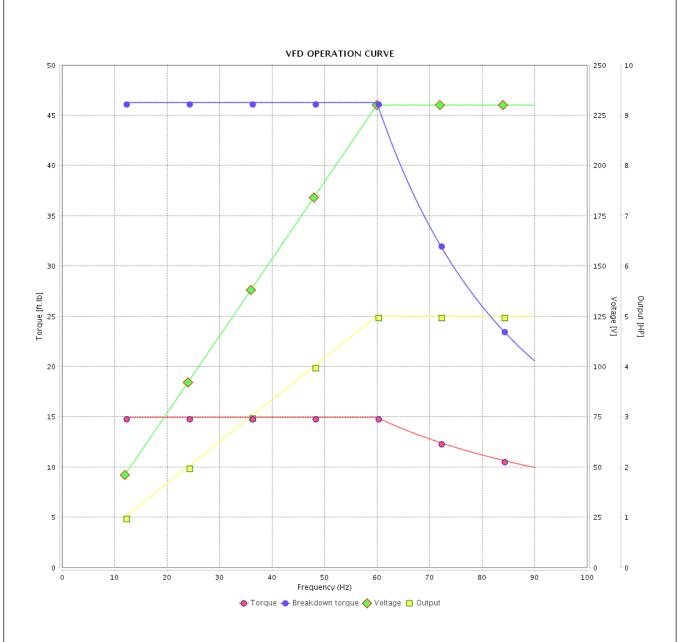
Product code: 14277192

Catalog #: 00518OT3E184JP-SG

Page

14/16

Revision



Performance	: 230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 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		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



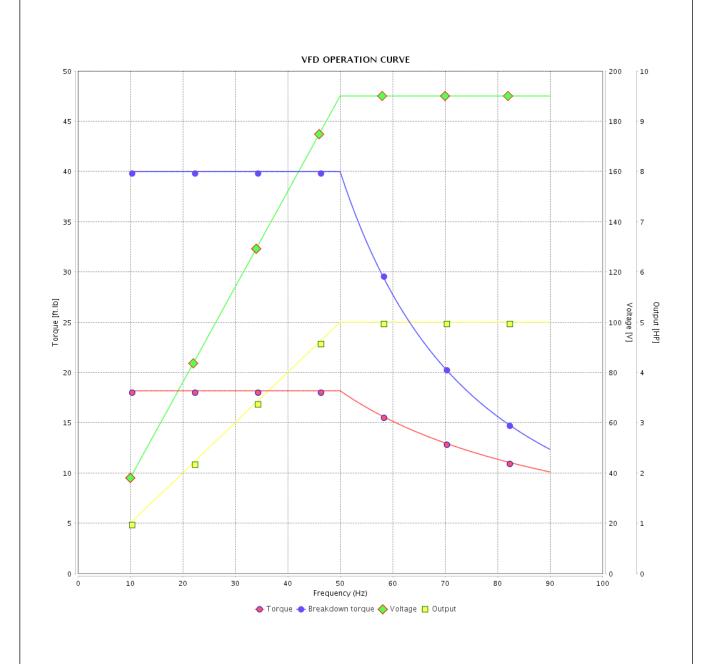
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Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14277192

Catalog #: 00518OT3E184JP-SG



Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.4/7.71 A : 5.8 : 18.2 ft.lb : 140 % : 220 % : 1445 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	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

15 / 16

12/04/2022

Date

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

12/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

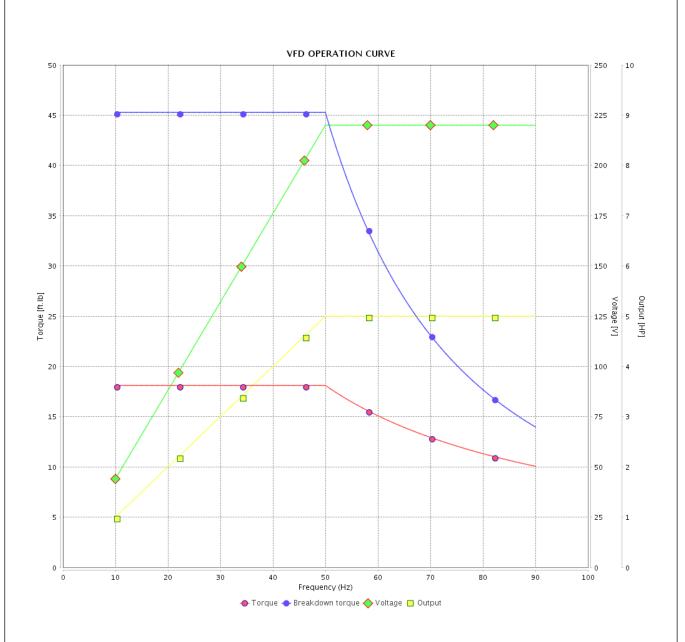
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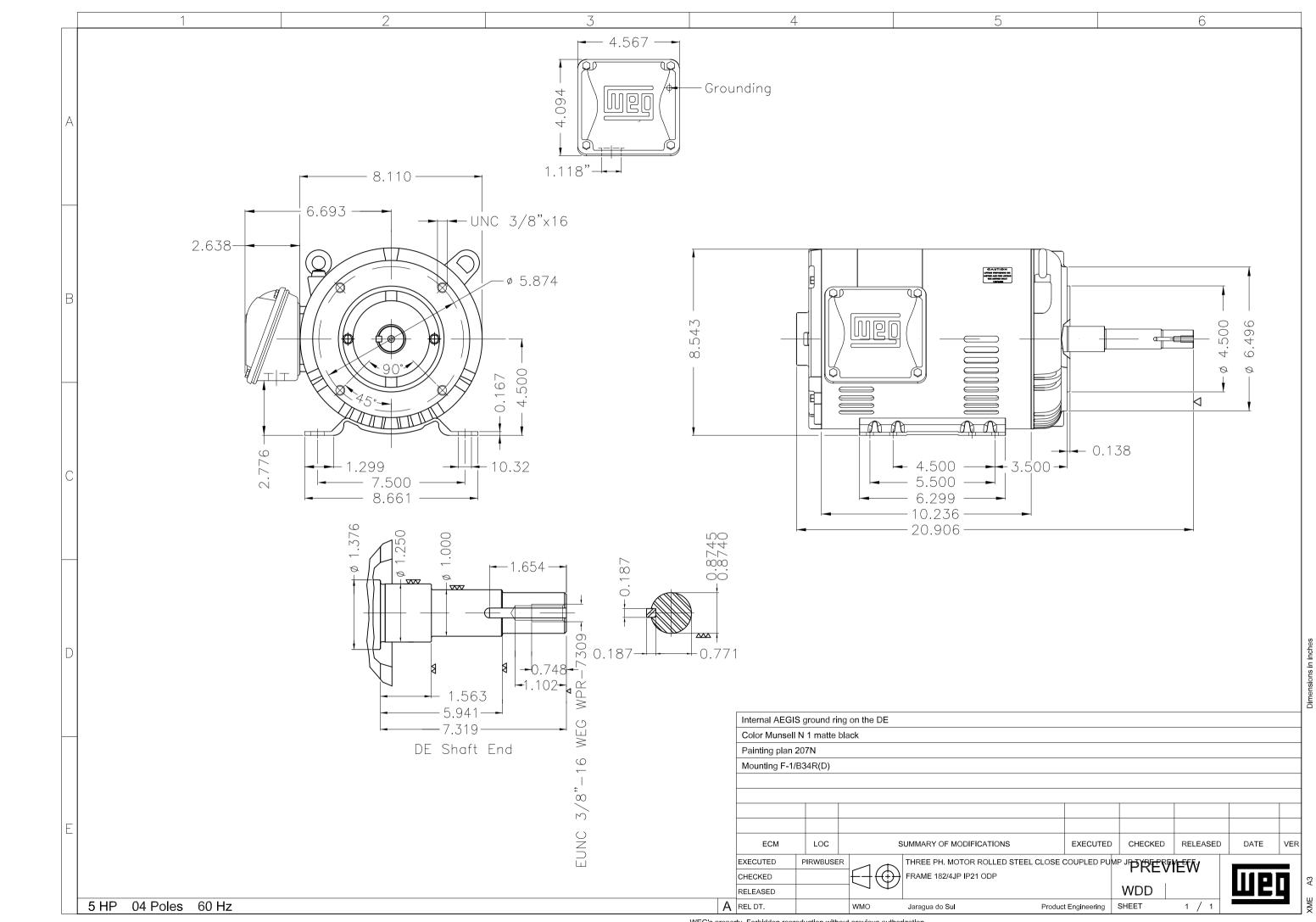
Page

16 / 16

Revision



Performance	: 220/415 V 50 Hz 4P	: 220/415 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.8/7.32 A : 6.5 : 18.1 ft.lb : : 160 % : 250 % : 1450 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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(**UL)**US LISTED

S Su Su Energy Verifi 3PT9

IEC 60034-1 SF1.15

> 12.7/6.33 14.6/7.28 230/460

> > 1000 m.a.s.l

F AT 80K

NSC

2°04 900

1.15

MODEL 005180T3E184JP-SG

MADE IN MÉXICO

N01.TODICOXON

182/4.IP 02DEZ2020

CONT

9 4

S/N MAT: 14277192

CC029A

T8-RED RED

T6-GRY

T2-WHT

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT

MOBIL POLYREX EM

6205-ZZ

ODE

8207-ZZ

牌

T6

190-220/380-415V

NOM EFF 1445RPM

50 Hz

5.0HP

15.4-13.5/7.71-7.18A

ZPM 3FA 냃 쌆

> CODE DES

SABLE @ 208V 14.0A LTERNATE RATING:

SF1.00 INC. 2

EFF 84.8% 89.5%

T4-YEL

r3-org T7-PNK T9-BRK T5-BLK 11-BLU

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

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

AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

