DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JP Pump NEMA Premium Product code: 13482795 Efficiency Three-Phase Catalog #: 00736OT3V184JPV-S Frame : 182/4JP Locked rotor time : 18s (cold) 10s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Rated current : 19.9/9.97 A L. R. Amperes : 148/73.8 A Mounting : W-6 : Both (CW and CCW) LRC : 7.4x(Code H) Rotation¹ No load current : 7.40/3.70 A Noise level² : 65.0 dB(A) Rated speed : 3500 rpm Starting method : Direct On Line Slip : 2.78 % Approx. weight³ : 76.2 lb Rated torque : 11.3 ft.lb Locked rotor torque : 180 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1818 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 88.5 88.5 88.5 : 170 lb Efficiency (%) 88.3 Max. traction : 246 lb Power Factor 0.49 0.85 0.90 0.76 Max. compression Drive end Non drive end Bearing type 6207 ZZ 6205 ZZ Sealing Without Bearing Seal Without Bearing Seal Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

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				1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



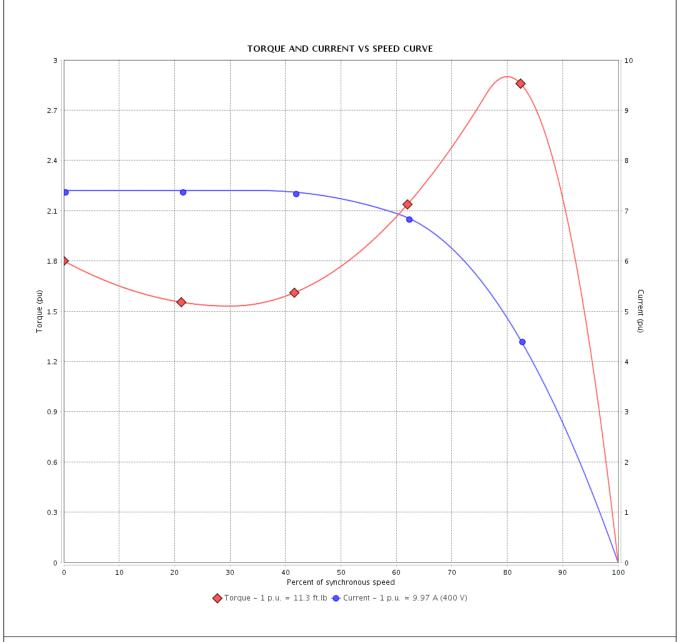
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482795

Catalog #: 00736OT3V184JPV-S



 Performance
 : 200/400 V 60 Hz 2P

 Rated current
 : 19.9/9.97 A
 Moment of inertia (J)
 : 0.1818 sq.ft.lb

 LRC
 : 7.4
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 11.3 ft.lb
 Insulation class
 : F

Locked rotor torque: 180 %Service factor: 1.15Breakdown torque: 290 %Temperature rise: 80 KRated speed: 3500 rpmDesign: B

Locked rotor time : 18s (cold) 10s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



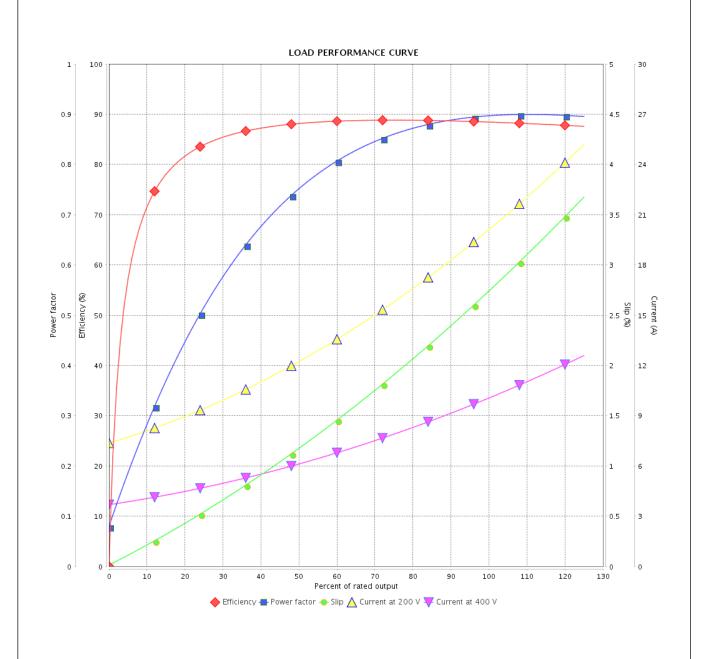
Customer

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482795

Catalog #: 00736OT3V184JPV-S



Performance	: 2	: 200/400 V 60 Hz 2P						
Rated current	: 1	: 19.9/9.97 A Moment of		f inertia (J)	: 0.1818 sq.ft.lb			
LRC	: 7	7.4 Duty cycle		: Cont.(S1)				
Rated torque	: 1	1.3 ft.lb	Insulation class		: F			
Locked rotor torque	e :1	80 %	Service factor		: 1.15			
Breakdown torque	: 2	90 %	Temperature rise		: 80 K			
Rated speed	: 3	: 3500 rpm		Design		: B		
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	13/04/2022				3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



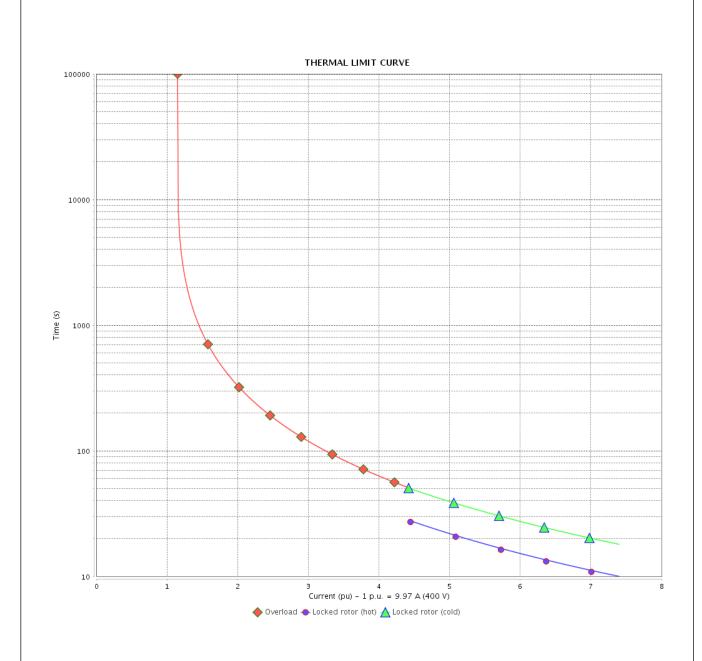
Customer	:					
Product line		Efficiency Three-Phase		Product code :	13482795	
				Catalog # :	00736OT3V1	184JPV-S
Performance		00/400 V 60 Hz 2P	Manageta	finantia (I)	. 0 4040 #1	L
Rated current LRC	: 7.		Duty cycle	f inertia (J)	: 0.1818 sq.ft.l : Cont.(S1)	υ
Rated torque Locked rotor torq		1.3 ft.lb 80 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu		90 %	Temperatu		: 80 K	
Rated speed		500 rpm	Design		: B	
Heating constant						
Cooling constant	:	Changes Commercial	Т	Dorform	Charles -	Data
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
	10/01/0000	-			1	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

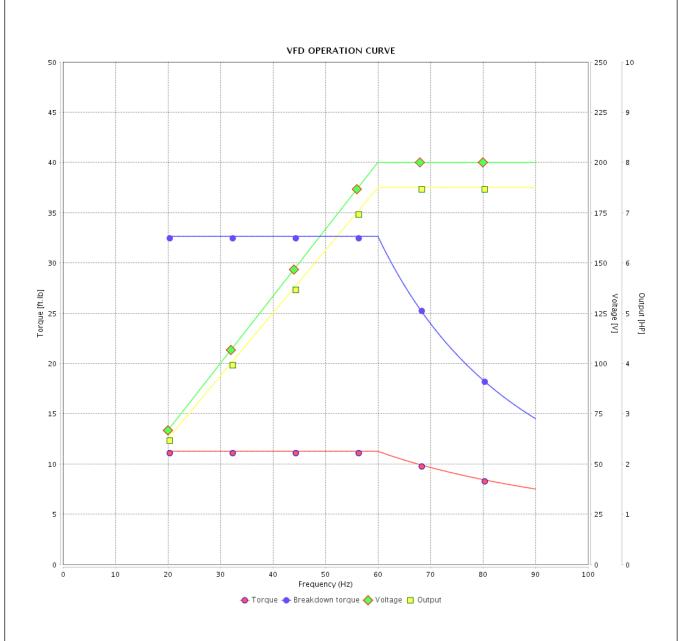
13/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

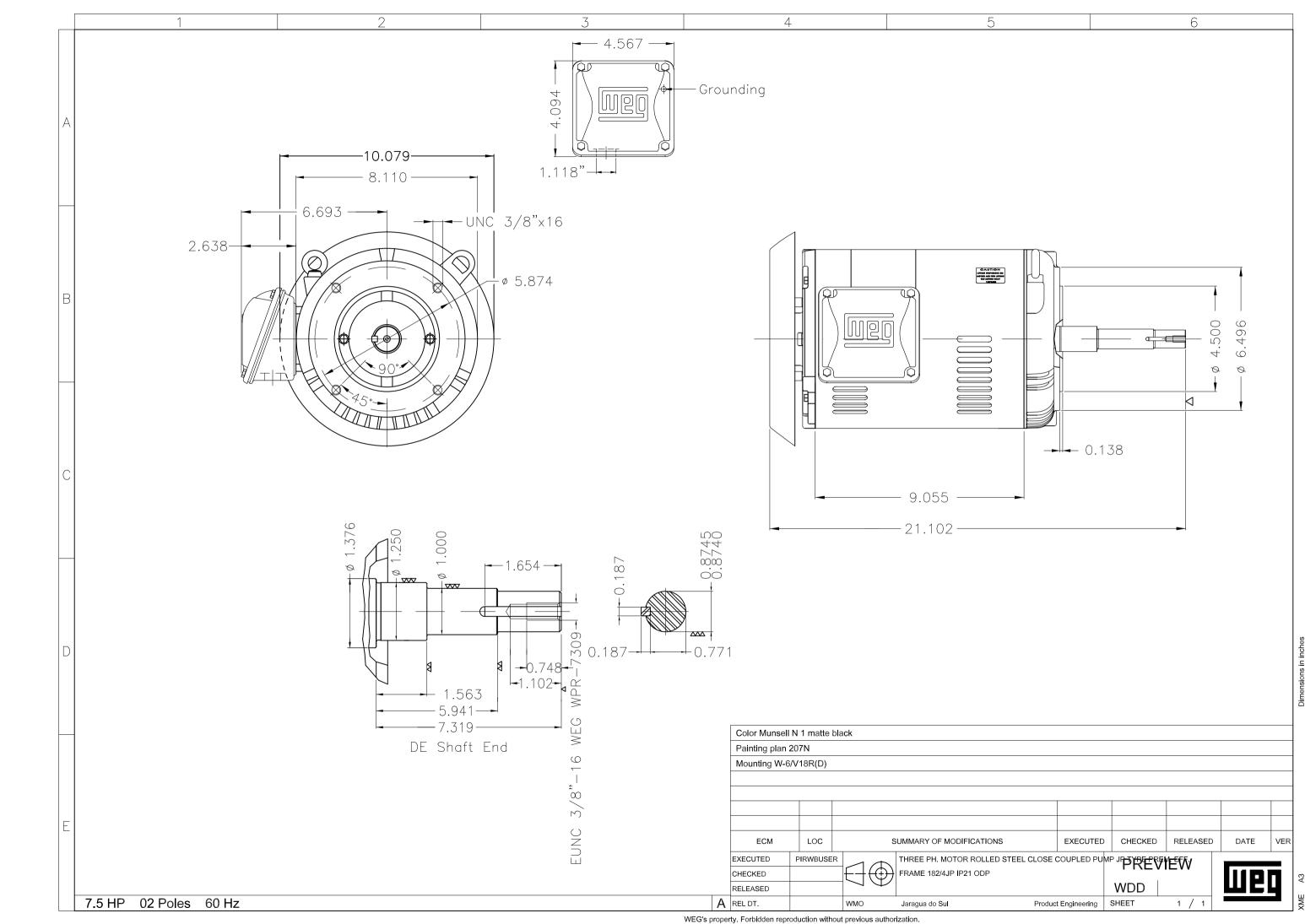
Product code: 13482795

Catalog #: 00736OT3V184JPV-S



Performance : 200/400 V 60 Hz 2P : 19.9/9.97 A Rated current Moment of inertia (J) : 0.1818 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class : 11.3 ft.lb : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

6/6





3PT9



MODEL 00736OT3V184JPV-S

330UT2018

W01.TO0IC0X0N

182/4.JP | HP(kW)

Œ 200/400

PH 3

9

Ä

NEMA NOM.EFF. INS CL F AT HIGH ALTERNATE RATING: 22.9/11 15 19.9/9.97 1000 MOT

PF 0.90 T9-BRK RED 13-ORG T7-PNK T1-BLU T5-BLK ο 40°C CONT CODE 3500 88.5% M APM 80K AMB 7.5(5.5)

S

띪

IEC 60034-1

SEM

T2-WHT T6-GRY T4-YEL T8-RED NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION Inverter duty For use on VPWM 1000:1 VT, 3:1 CT

T12-VLT

T11-GRN

T10-CURRY

MOBIL POLYREX EM 6205-ZZ

ODE

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect nower source before servicing unit. 6207-ZZ

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine

AVERTISSEMENT: Le moteur doit être mis à la terre conformément

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