DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14827993 Three-Phase Catalog #: 10036OP3VFP365JPV-W4 Frame : 364/5JP Locked rotor time : 27s (cold) 15s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 265/132 A Protection degree : IP23 L. R. Amperes : 1508/754 A Cooling method : IC01 - ODP LRC : 5.7x(Code F) Mounting : W-6 No load current : 59.8/29.9 A Rotation¹ : Both (CW and CCW) Rated speed : 3550 rpm Starting method : Direct On Line : 746 lb Slip : 1.39 % Approx. weight³ Rated torque : 148 ft.lb Locked rotor torque : 170 % Breakdown torque : 229 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 6.80 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 : 793 lb Efficiency (%) 92.2 92.4 93.0 Max. traction Power Factor 0.58 0.80 0.88 : 1539 lb 0.85 Max. compression Non drive end Drive end 6314 C3 Bearing type 6212 Z C3 Sealing Without Bearing Seal Without Bearing Seal

Lubrication interval 7209 h 12143 h Lubricant amount 27 g 13 g

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	10/04/2020			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



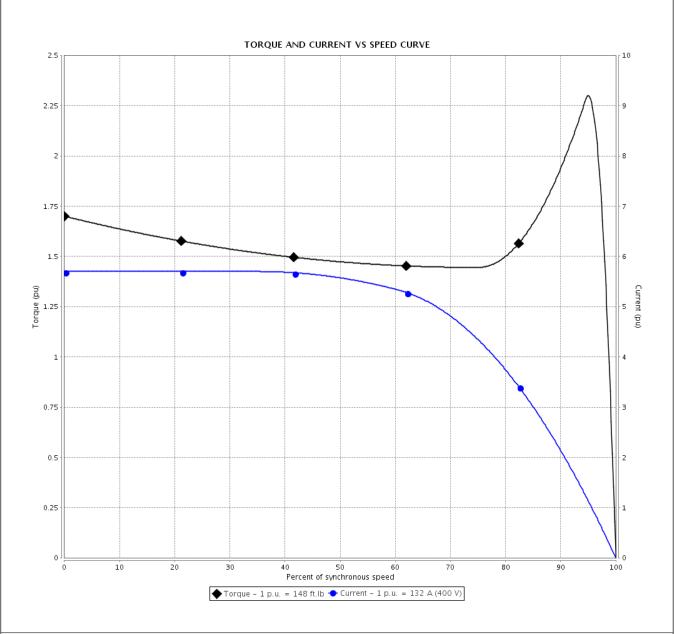
Customer :

Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14827993

Catalog #: 10036OP3VFP365JPV-W4



: 200/400 V 60 Hz 2P Performance Rated current : 265/132 A Moment of inertia (J) : 6.80 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F : 148 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 170 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



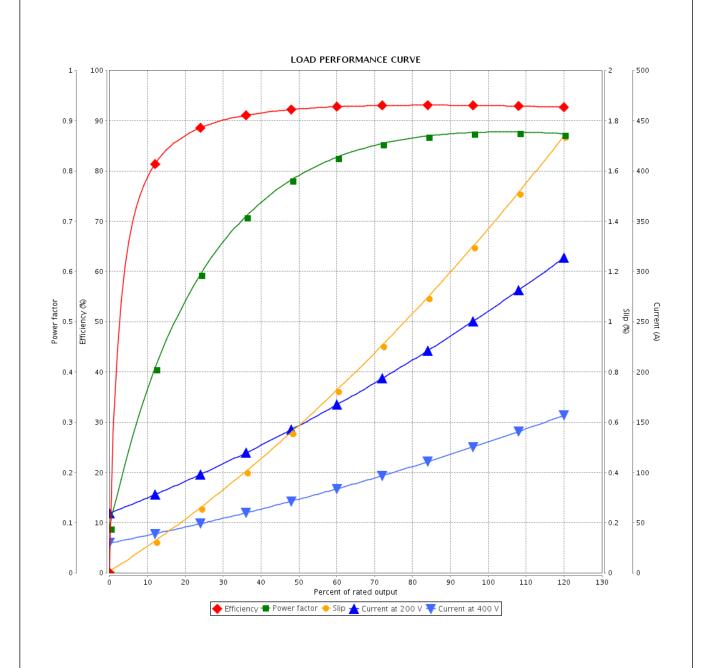
Customer

: W40 JP Pump High Efficiency Product line

Three-Phase

Product code: 14827993

Catalog #: 10036OP3VFP365JPV-W4



Performance :		: 200/400 V 60 Hz 2P					
Rated current		65/132 A	Moment of inertia (J)		: 6.80 sq.ft.lb		
LRC : 5		7	Duty cycle	Duty cycle			
Rated torque		148 ft.lb Insulation		class	: F		
Locked rotor torque		70 %	Service fa	Service factor		: 1.15	
Breakdown torqu	ie : 22	229 % Temperat 3550 rpm Design		ıre rise	: 80 K		
Rated speed	: 38				: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	10/04/2020				3/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



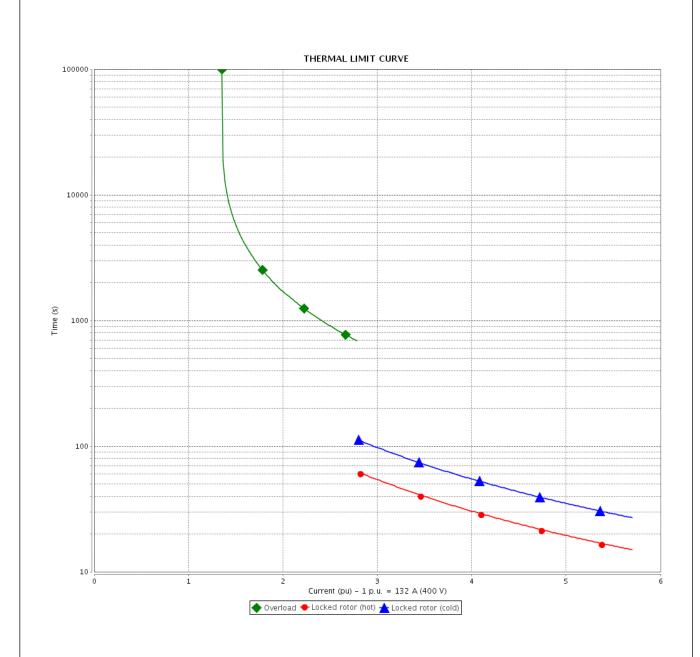
Customer	:				,		
Product line		: W40 JP Pump High Efficiency Three-Phase		Product code :	14827993	14827993	
			(Catalog # :	10036OP3VF	P365JPV-W4	
Performance	: 20	00/400 V 60 Hz 2P					
Rated current LRC	: 26 : 5.	65/132 A 7	Moment of Duty cycle		: 6.80 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque		18 ft.lb 70 %	Insulation Service fac		: F : 1.15		
Breakdown torqu		29 %	Temperatu		: 80 K		
Rated speed		550 rpm	Design		: B		
Heating constant Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
1104.		- Langue Gammary		. Griorinea	CHOOKCO	Date	
Performed by							
Checked by					Page	Revision	
5.155RGG by	40/04/0000				. 490	1.07101011	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/04/2020			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

10/04/2020

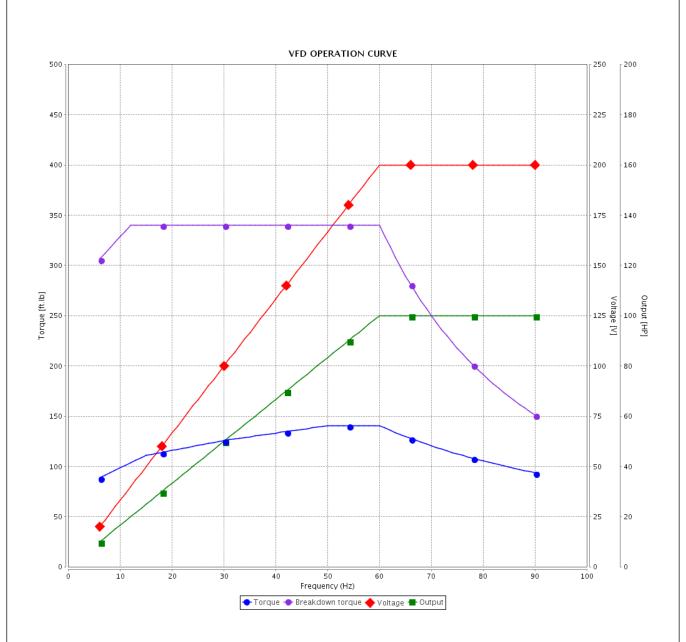
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14827993

Catalog #: 10036OP3VFP365JPV-W4

6/6



Performance : 200/400 V 60 Hz 2P Rated current : 265/132 A Moment of inertia (J) : 6.80 sq.ft.lb **LRC** Duty cycle : 5.7 : Cont.(S1) Insulation class : 148 ft.lb : F Rated torque Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3550 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

