DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14490332 Efficiency Three-Phase Catalog #: 06036OT3H326JP-W40 Frame : 324/6JP Locked rotor time : 21s (cold) 12s (hot) Output : 60 HP (45 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 56.8 A Protection degree : IP23 L. R. Amperes : 358 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 16.0 A Rotation¹ : Both (CW and CCW) Rated speed : 3560 rpm Noise level² : 75.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 88.5 ft.lb Approx. weight³ : 479 lb Locked rotor torque : 220 % Breakdown torque : 229 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.82 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.7 92.4 93.0 93.6 Max. traction Power Factor 0.85 0.51 0.73 0.82 Max. compression Non drive end Drive end

Bearing type : 6312 Z C3 6211 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 19658 h 20000 h
Lubricant amount : 21 g 11 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



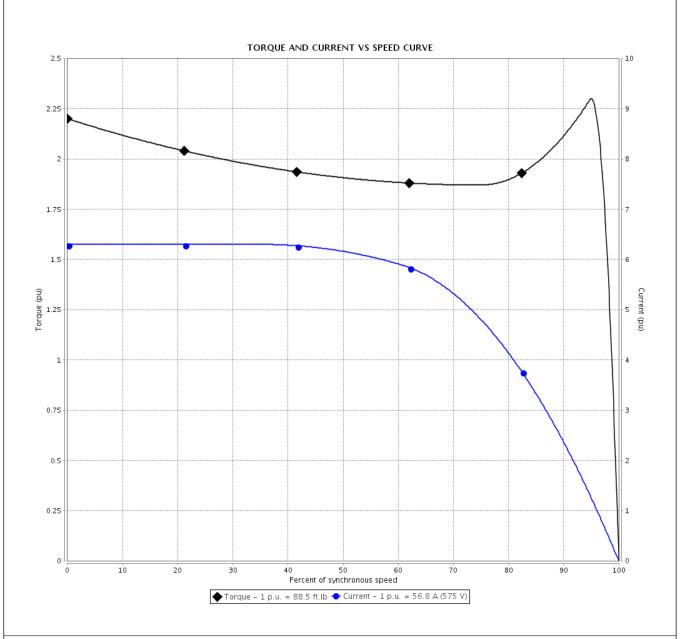
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490332

Catalog #: 06036OT3H326JP-W40



Performance : 575 V 60 Hz 2P Rated current : 56.8 A Moment of inertia (J) : 3.82 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 88.5 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B

Locked rotor time : 21s (cold) 12s (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



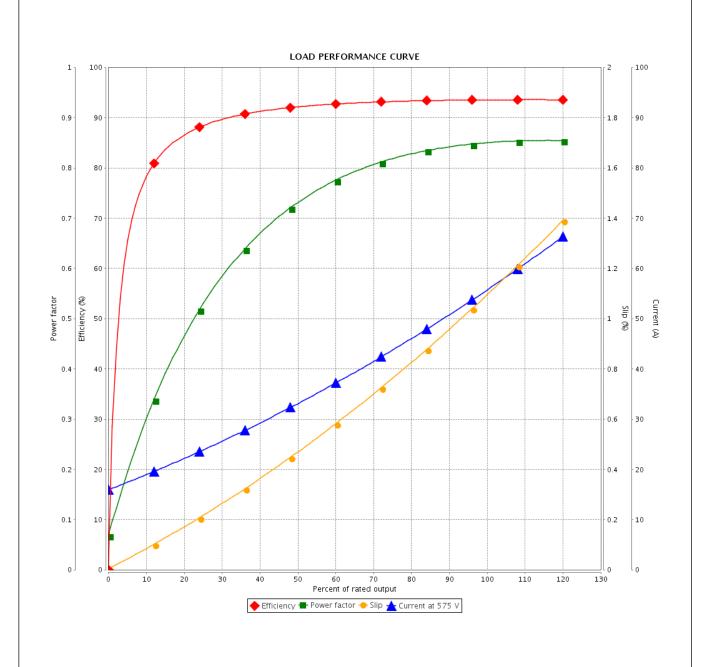
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14490332

Catalog #: 06036OT3H326JP-W40



			-1			
Performance	: 5	75 V 60 Hz 2P				
Rated current	: 50	6.8 A	Moment of inertia (J)		: 3.82 sq.ft.lb	
LRC	: 6	.3	Duty cycle		: Cont.(S1)	
Rated torque	: 88	8.5 ft.lb Insulation class 120 % Service factor 129 % Temperature rise		: F		
Locked rotor torqu	e : 2:			: 1.25		
Breakdown torque	: 2:			ure rise	: 80 K	
Rated speed	: 3560 rpm		Design	Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	10/04/2020	1			3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



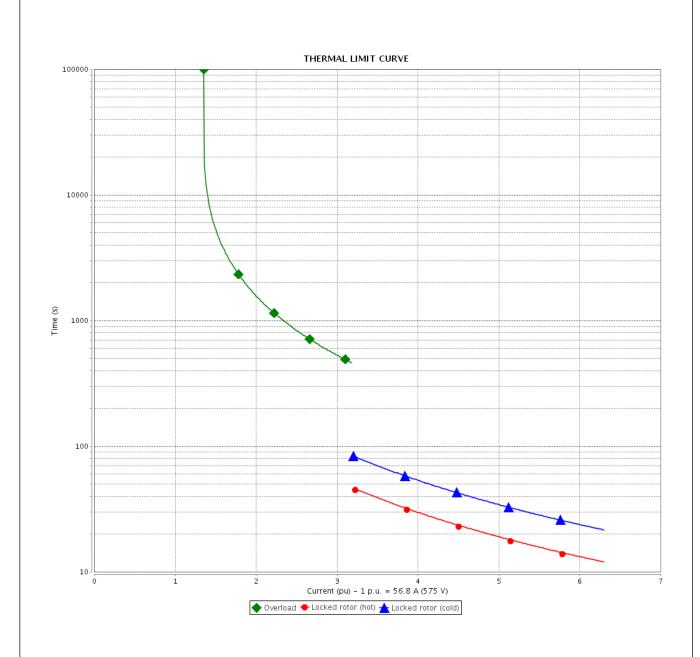
Customer	:			
Product line	: W40 JP Pump NEMA Prem Efficiency Three-Phase	ium Product code : Catalog # :	14490332 06036OT3H3	326JP-W40
Performance	: 575 V 60 Hz 2P			
Rated current LRC	: 56.8 A : 6.3	Moment of inertia (J) Duty cycle	: 3.82 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 88.5 ft.lb : 220 %	Insulation class Service factor	: F : 1.25	
Breakdown torque	: 229 %	Temperature rise	: 1.25 : 80 K : B	
Rated speed Heating constant	: 3560 rpm	Design	. D	
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by		[
Checked by	4/2020		Page	Revision

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 :

Checked by

Date

10/04/2020

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

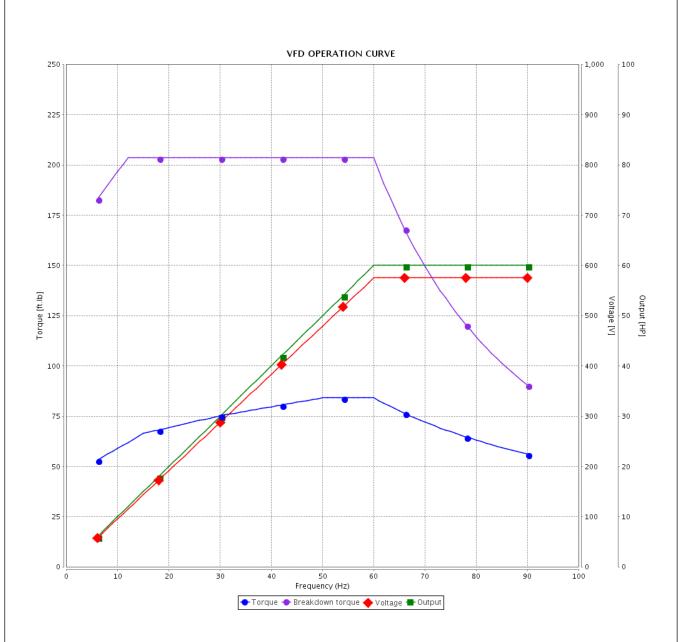
Product code: 14490332

Catalog #: 06036OT3H326JP-W40

Page

6/6

Revision



Performance	: 5	: 575 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 8 que : 2: ue : 2:	6.8 A .3 8.5 ft.lb 20 % 29 % 560 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.82 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
Rev.	Changes Summary		,	Performed	Checked	Date	
Performed by							

