### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14836791 Efficiency Three-Phase Catalog #: 05018OT3V326JPV-W40 Frame : 324/6JP Locked rotor time : 19s (cold) 11s (hot) Output : 50 HP (37 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 : 135/67.3 A Protection degree : IP23 L. R. Amperes : 848/424 A Cooling method : IC01 - ODP : 6.3x(Code G) LRC Mounting : W-6 No load current : 53.4/26.7 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1775 rpm Noise level<sup>2</sup> : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight<sup>3</sup> : 560 lb Locked rotor torque : 240 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 7.08 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 94.0 Efficiency (%) 94.1 94.5 94.5 Max. traction Power Factor 0.70 0.80 0.44 0.84 Max. compression Non drive end Drive end Bearing type 6312 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 21 g 11 g

Mobil Polyrex EM

Notes

Lubricant type

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



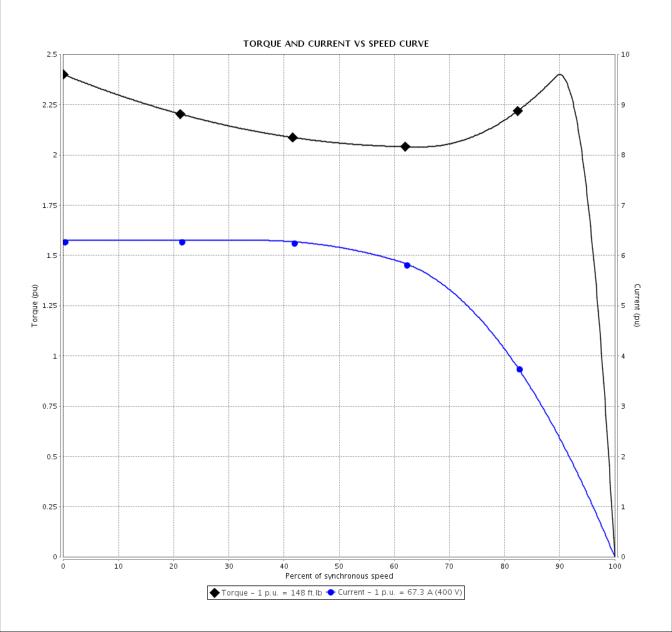
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836791

Catalog #: 05018OT3V326JPV-W40



: 200/400 V 60 Hz 4P Performance Rated current : 135/67.3 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 19s (cold) 11s (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

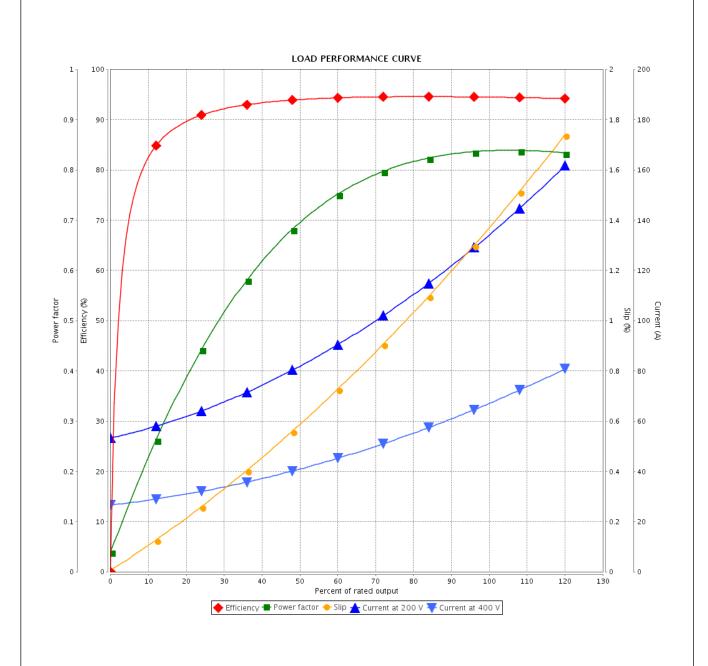
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836791

Catalog #: 05018OT3V326JPV-W40

3/6



Performance	: 200/400 V 60 Hz 4P				
Rated current	: 135/67.3 A	Moment of inertia (J)		: 7.08 sq.ft.lb	
LRC Rated torque	: 6.3 : 148 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service factor		: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1775 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

10/04/2020

Date

# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



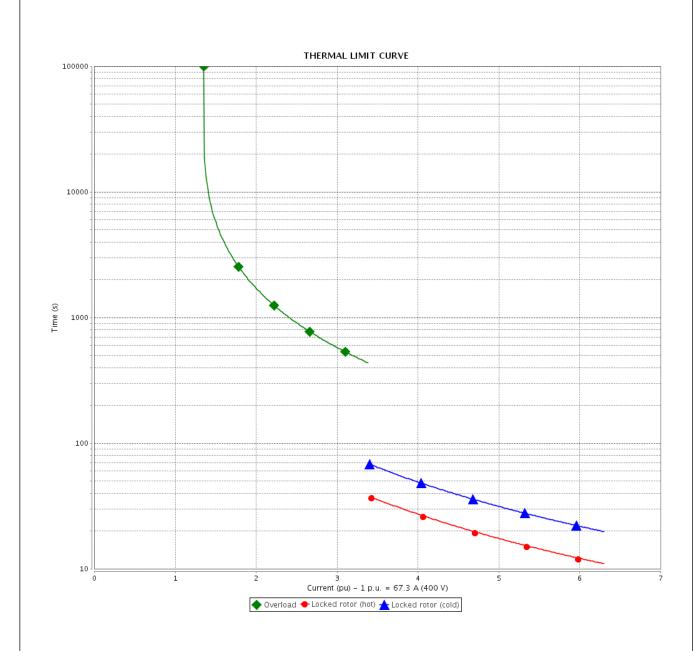
Customer		:				
Draduat line		. MAC ID Divers NEMA Decre		Draduat and a	44000704	
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	iium	Product code :	14836791	
		,		Catalog # :	05018OT3V3	26JPV-W40
Performance	:	200/400 V 60 Hz 4P				
Rated current		135/67.3 A	Moment o	f inertia (J)	: 7.08 sq.ft.lb	
LRC Rated torque		6.3 148 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		240 %	Service fa		: 1.25	
Breakdown torqu	ie :	240 %	Temperati		: 80 K	
Rated speed	:	1775 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	10/04/2020				4/6	

# 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 :

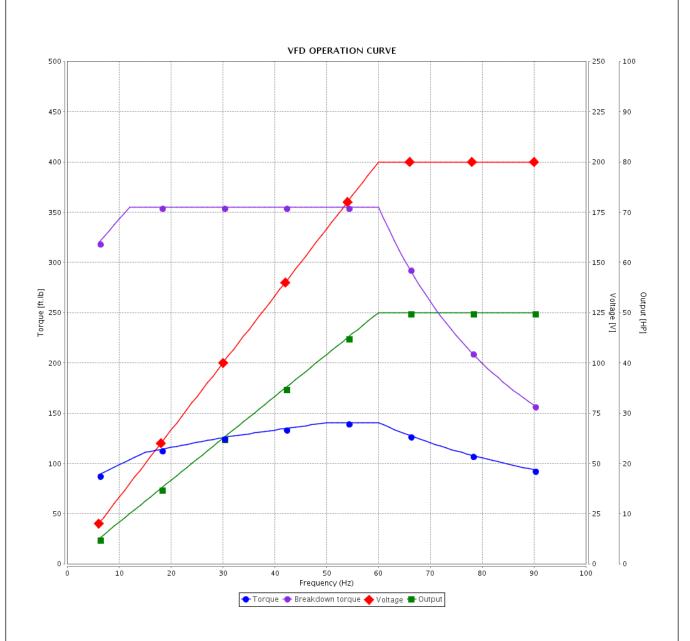
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14836791

Catalog #: 05018OT3V326JPV-W40

6/6



Performance	: 200/400 V 60 Hz 4P				
Rated current	: 135/67.3 A Moment of inertia (J)		a (J)	: 7.08 sq.ft.lb	
LRC	: 6.3	Duty cycle		: Cont.(S1)	
Rated torque	: 148 ft.lb	Insulation class		: F ` ´	
Locked rotor torque	: 240 %	Service factor		: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1775 rpm	Design		: B	
Rev.	Changes Summary	Per	formed	Checked	Date
Performed by					
Checked by				Page	Revision

10/04/2020

Date

