DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14830326 Three-Phase 05036OP3HFP324JPV-Catalog #: Frame : 324/6JP Locked rotor time : 36s (cold) 20s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K : Cont.(S1) Poles : 2 Duty cycle : -20°C to +40°C Ambient temperature Frequency : 60 Hz Rated voltage : 575 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 46.7 A : IP23 : IC01 - ODP L. R. Amperes : 271 A Cooling method **LRC** : 5.8x(Code F) Mounting : W-6 No load current : 13.5 A Rotation¹ : Both (CW and CCW) Rated speed Starting method : Direct On Line : 3555 rpm Slip : 1.25 % Approx. weight³ : 442 lb Rated torque : 73.9 ft.lb : 170 % Locked rotor torque Breakdown torque : 200 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 3.01 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 91.5 91.7 92.4 92.4 Max. traction Power Factor 0.54 0.78 0.84 0.86 Max. compression Drive end Non drive end Bearing type 6312 Z C3 6211 Z C3 Without Bearing Seal Sealing

Without Bearing Seal Lubrication interval 9829 h

Lubricant amount 21 g 11 g

Mobil Polyrex EM Lubricant type

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.

14226 h

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

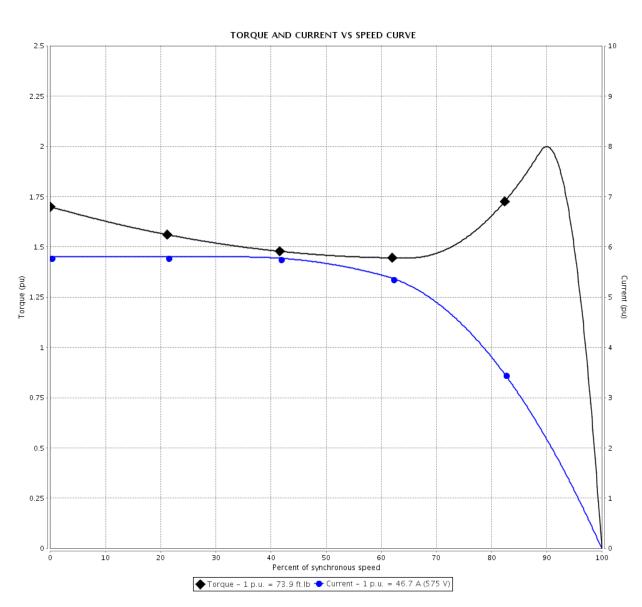
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830326

Catalog #: 05036OP3HFP324JPV-

W4



: 575 V 60 Hz 2P Performance Rated current : 46.7 A Moment of inertia (J) : 3.01 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 73.9 ft.lb Service factor Locked rotor torque : 170 % : 1.15 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

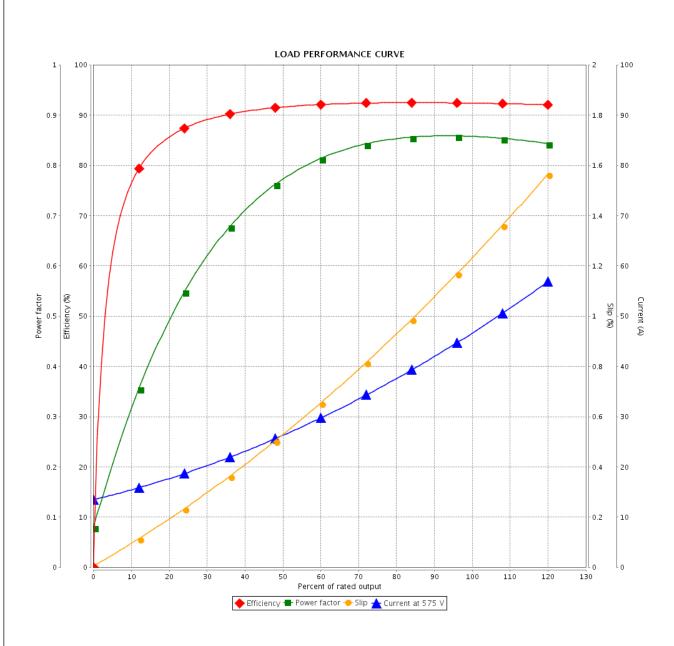
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830326

Catalog #: 05036OP3HFP324JPV-

W4



Performance		: 575 V 60 Hz 2P						
Rated current	: 4	6.7 A Moment of inertia (f inertia (J)	: 3.01 sq.ft.lb			
LRC		5.8	Duty cycle		: Cont.(S1)			
Rated torque	: 7	3.9 ft.lb	Insulation class		: F			
Locked rotor torque	e :1	70 %	Service factor		: 1.15			
Breakdown torque	: 2	00 %	Temperature rise		: 80 K			
Rated speed	: 3	: 3555 rpm Design			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



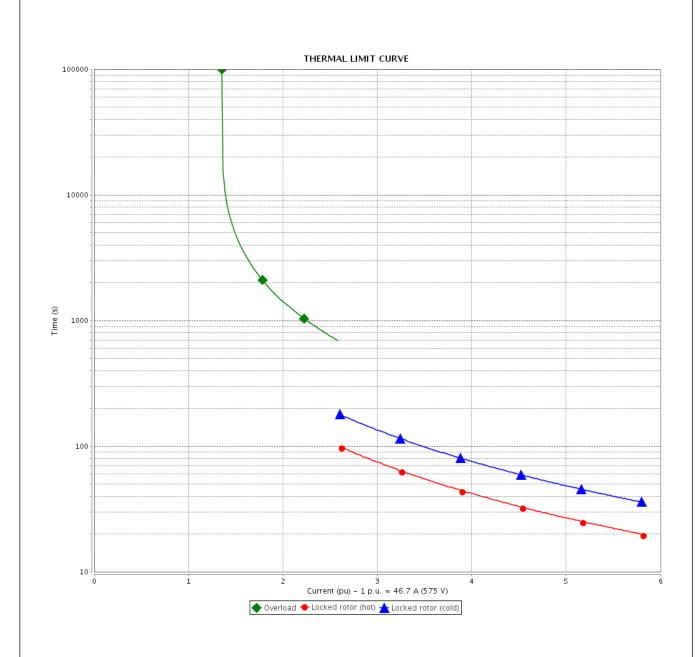
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Product line		: W40 JP Pump High Efficiency Three-Phase		Product code :	14830326	14830326		
		nice-i nasc	(Catalog # :	05036OP3HF W4	P324JPV-		
Performance	: 57	75 V 60 Hz 2P						
Rated current	: 46	6.7 A	Moment of	f inertia (J)	: 3.01 sq.ft.lb			
LRC Rated torque	: 5. · 7:	.8 3.9 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F			
Locked rotor tord	que : 17	70 %	Service fa	ctor	: 1.15			
Breakdown torqu Rated speed		00 % 555 rpm	Temperatu Design	ıre rise	: 80 K : B			
		ooo ipiii	Design		. D			
Heating constant Cooling constant								
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

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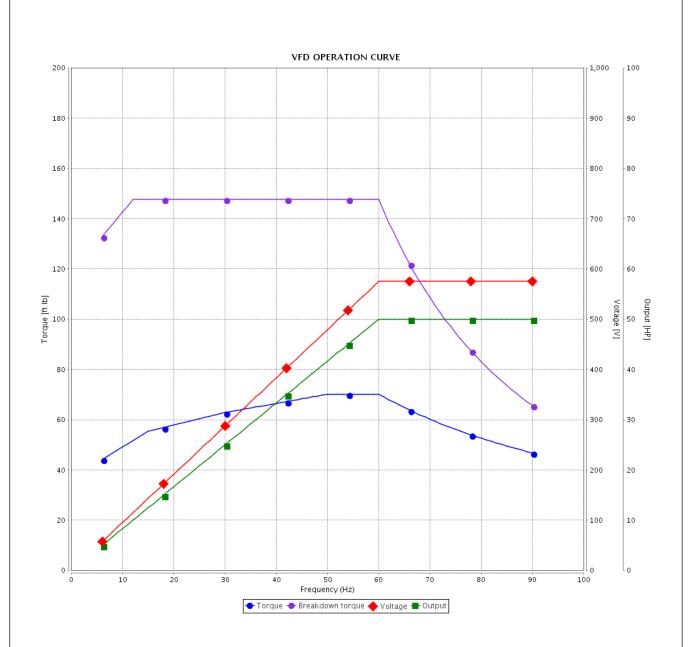
Product line : W40 JP Pump High Efficiency

Three-Phase

Product code: 14830326

Catalog #: 05036OP3HFP324JPV-

W4



Performance : 575 V 60 Hz 2P Rated current : 46.7 A Moment of inertia (J) : 3.01 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 : 73.9 ft.lb Insulation class Rated torque : F : 170 % Locked rotor torque Service factor : 1.15 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

