DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer		:					
Product line		: W40 JM Pump High Efficien Three-Phase			cy Product code : Catalog # :	14832415 04036OP3HFP286JMV- W4	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 40 H : 2 : 60 H : 575 : 37.8 : 230 : 6.15 : 11.2 : 353 : 1.8 : 59.4 : 170 : 250 : F	5 V 8 A 0 A x(Code G) 2 A 85 rpm 1 % 4 ft.lb 0 %		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Starting method Approx. weight³	: 18s (cold) 10s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : IC01 - ODP : W-6 : Both (CW and CCW) : Direct On Line : 347 lb	
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	90.8	91.0	91.7	91.7	Max. traction		
Power Factor	0.54	0.78	0.86	0.87	Max. compression		
Bearing type Sealing Lubrication interval Lubricant amount		: : : : : : : : : : : : : : : : : : : :	Drive end 6311 Z C3 Without Bearing Seal 11517 h 18 g		14226 h 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

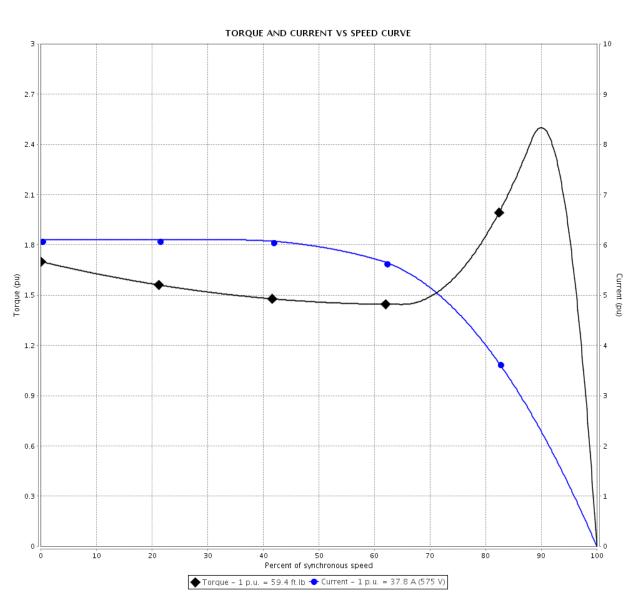
Product line : W40 JM Pump High Efficiency

Three-Phase

Product code: 14832415

Catalog #: 04036OP3HFP286JMV-

W4



: 575 V 60 Hz 2P Performance Rated current : 37.8 A Moment of inertia (J) : 1.91 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 59.4 ft.lb Service factor Locked rotor torque : 170 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

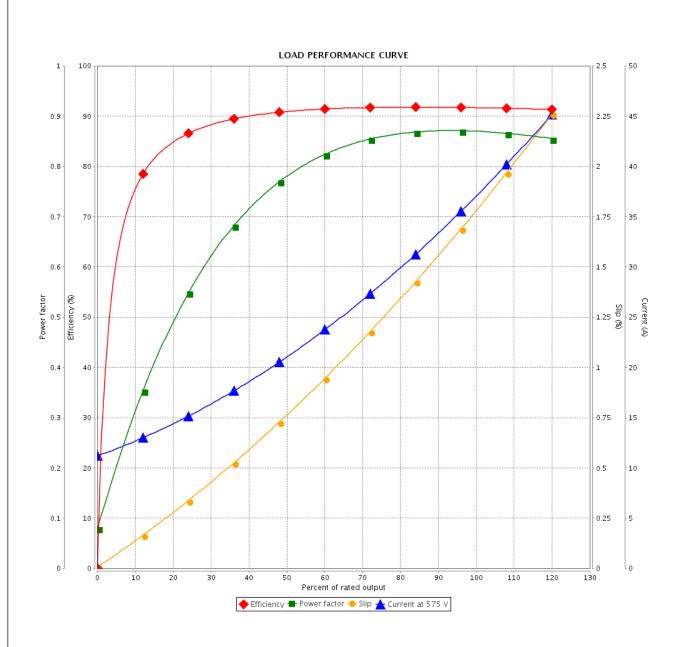
Product line : W40 JM Pump High Efficiency

Three-Phase

Product code: 14832415

Catalog #: 04036OP3HFP286JMV-

W4



Performance	: 5	: 575 V 60 Hz 2P						
Rated current	: 3	Moment of inertia (J)		f inertia (J)	: 1.91 sq.ft.lb			
LRC		3.1	Duty cycle		: Cont.(S1)			
Rated torque	: 5	: 59.4 ft.lb Insulation		class	: F			
Locked rotor torqu	ie : 1	170 %	Service factor		: 1.15			
Breakdown torque	: 2	: 250 % Temperature rise Design		Temperature rise				
Rated speed	: 3			: B				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



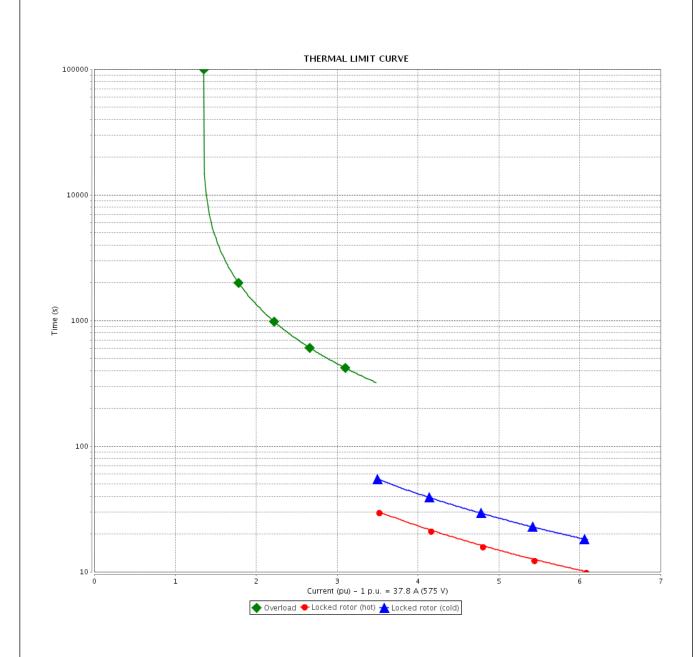
Customer	:							
Product line		W40 JM Pump High Efficier hree-Phase	ncy I	Product code :	14832415	14832415		
	"	mee-i nase	(Catalog # :	04036OP3HF W4	P286JMV-		
Performance	: 57	75 V 60 Hz 2P						
Rated current	: 37	7.8 A	Moment of	f inertia (J)	: 1.91 sq.ft.lb			
LRC	: 6.	.1	Duty cycle	;	: Cont.(S1) : F			
Rated torque Locked rotor tord		9.4 ft.lb 70 %	Insulation Service fa		: F : 1.15			
Breakdown torque		250 % Temperat			: 80 K			
Rated speed		535 rpm	Design		: B			
Heating constan								
Cooling constant	t	Changes Summary		Performed	Checked	Date		
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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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Date

10/04/2020

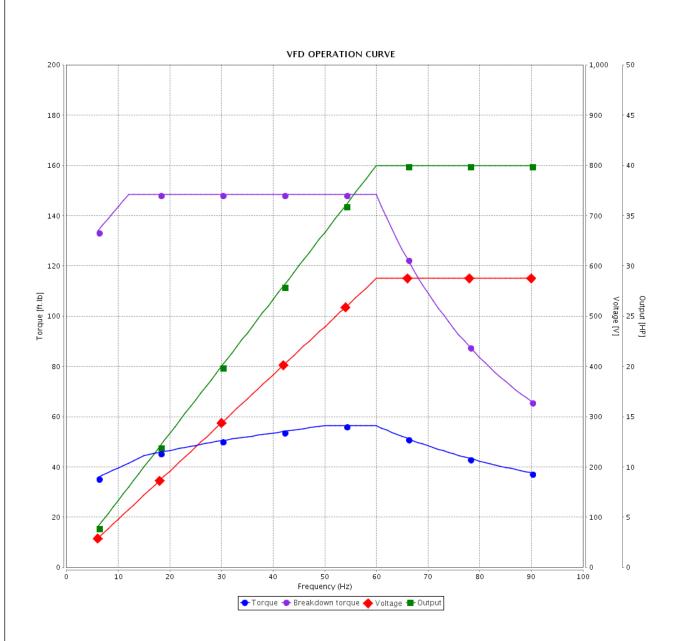
Product line : W40 JM Pump High Efficiency

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W4



Performance : 575 V 60 Hz 2P Rated current : 37.8 A Moment of inertia (J) : 1.91 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 59.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

