DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JM Pump NEMA Premium Product code: 14484695 Efficiency Three-Phase Catalog #: 03018OT3H286JM-W40 Frame : 284/6JM Locked rotor time : 32s (cold) 18s (hot) Output : 30 HP (22 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 : 27.9 A Protection degree : IP23 L. R. Amperes : 184 A Cooling method : IC01 - ODP : 6.6x(Code G) LRC Mounting : F-1 No load current : 10.8 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 89.0 ft.lb Approx. weight³ : 452 lb Locked rotor torque : 280 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.52 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 93.4 93.6 94.1 94.1 Max. traction Power Factor 0.80 0.84 0.45 0.70 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h

Lubricant amount 18 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



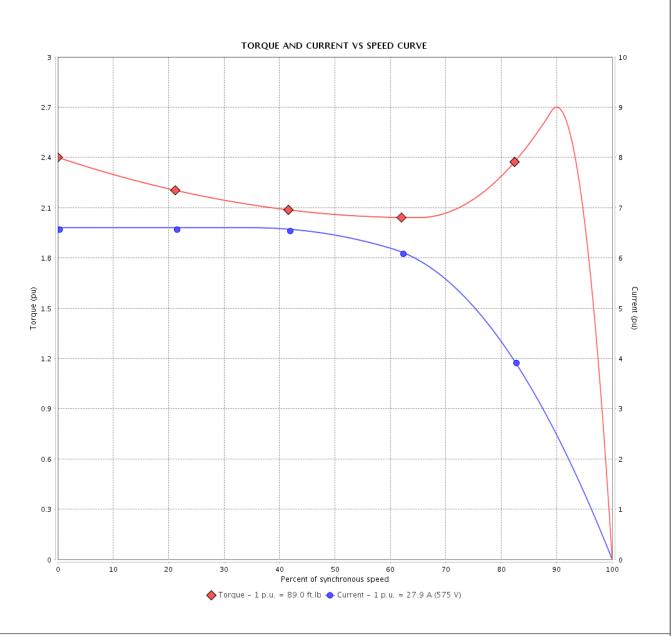
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484695

Catalog #: 03018OT3H286JM-W40



Performance	: 575 V 60 Hz 4P			
Rated current LRC	: 27.9 A : 6.6	Moment of inertia (J) Duty cycle	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 89.0 ft.lb : 280 %	Insulation class Service factor	: F : 1.25	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1765 rpm	Design	: B	
Laskad vatav tivas	. 22a (aald) 40a (bat)			

Locked rotor time : 32s (cold) 18s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

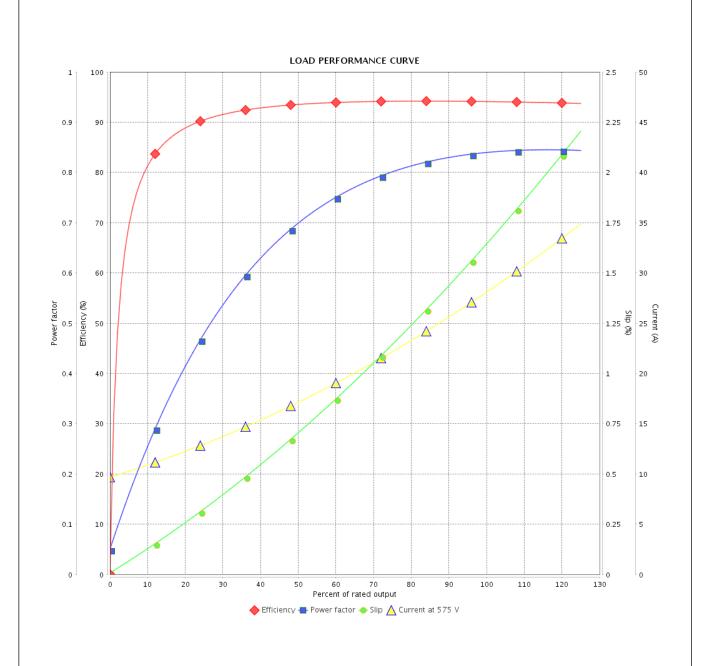
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484695

Catalog #: 03018OT3H286JM-W40

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Performance	: 575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.9 A : 6.6 : 89.0 ft.lb : 280 % : 270 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.52 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



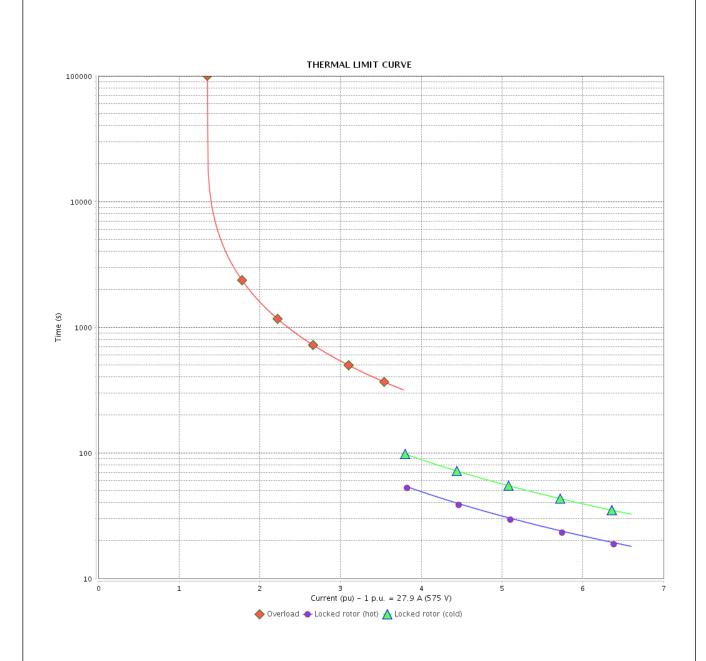
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Product line		1446 1415		Dec deset seed	44404007	
		: W40 JM Pump NEMA Pren Efficiency Three-Phase	nium	Product code :	14484695	
				Catalog # :	03018OT3H2	86JM-W40
Performance		: 575 V 60 Hz 4P	N4	£:#:- (I)	. 4.50 # !!-	
Rated current LRC		: 27.9 A : 6.6	Duty cycle	of inertia (J) e	: 4.52 sq.ft.lb : Cont.(S1)	
Rated torque		: 89.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 280 % : 270 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		: 1765 rpm	Design		: B	
Heating constant	t					
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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



Customer :

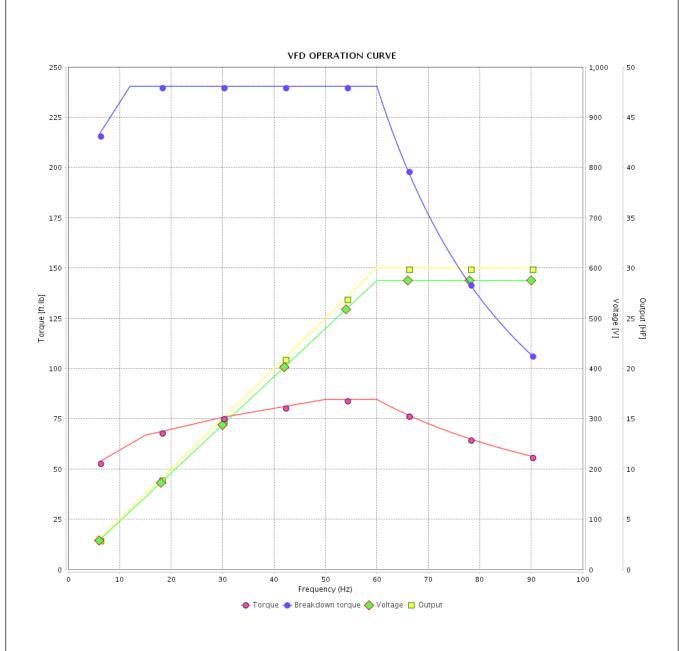
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484695

Catalog #: 03018OT3H286JM-W40

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Performance	: 575 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque	: 27.9 A : 6.6 : 89.0 ft.lb : 280 %	: 6.6 Duty cycle		: 4.52 sq.ft.lb : Cont.(S1) : F : 1.25			
Breakdown torque Rated speed	: 270 %			: 80 K : B			
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