DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump NEMA Premium Product code: 14486218 Efficiency Three-Phase Catalog #: 02036OT3H254JP-W40 Frame : 254JP Locked rotor time : 21s (cold) 12s (hot) Output : 20 HP (15 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 : 19.4 A Protection degree : IP23 L. R. Amperes : 122 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 6.72 A Rotation¹ : Both (CW and CCW) Rated speed : 3535 rpm Starting method : Direct On Line Slip : 1.81 % Approx. weight³ : 214 lb Rated torque : 29.7 ft.lb Locked rotor torque : 200 % Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.8718 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 90.0 91.0 Efficiency (%) 90.2 91.0 Max. traction Power Factor 0.48 0.82 0.85 0.72 Max. compression Non drive end Drive end Bearing type 6309 Z C3 6209 Z C3 Sealing Without Bearing Seal Without Bearing Seal

Bearing type : 6309 Z C3 6209 Z C3
Sealing : Without Bearing Seal Without Bearing Sea
Lubrication interval : 20000 h
Lubricant amount : 13 g 9 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



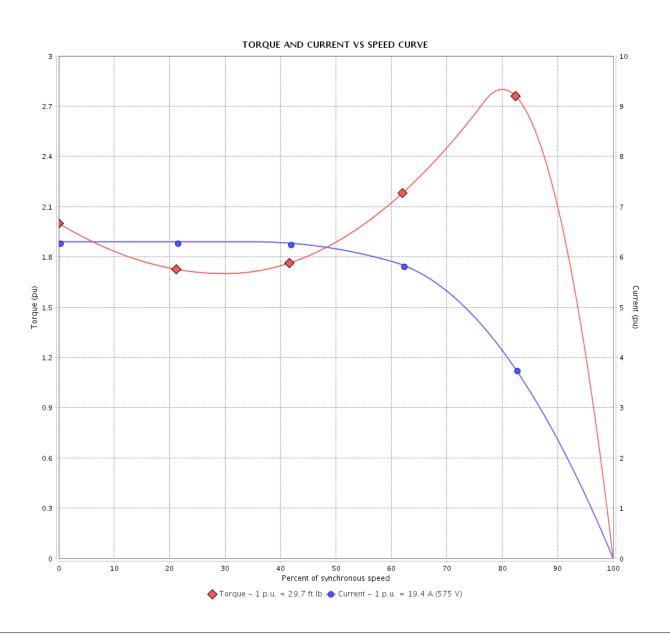
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486218

Catalog #: 02036OT3H254JP-W40



Performance : 575 V 60 Hz 2P Rated current : 19.4 A Moment of inertia (J) : 0.8718 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.7 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



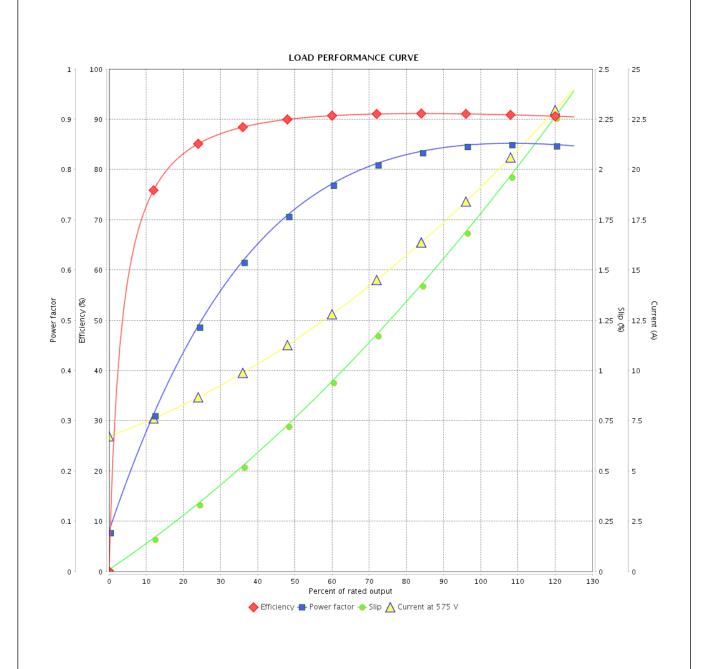
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14486218

Catalog #: 02036OT3H254JP-W40



Performance	:	575 V 60 Hz 2P					
Rated current		19.4 A	Moment of inertia (J)		: 0.8718 sq.ft.lb		
LRC : 6		6.3	Duty cycle	Duty cycle			
Rated torque		29.7 ft.lb	Insulation	Insulation class		:F ^	
Locked rotor torq	jue : 2	200 %	Service fa	Service factor		: 1.25	
Breakdown torqu	ie : 2	280 %	Temperati	Temperature rise			
Rated speed	: ;	3535 rpm	Design		: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



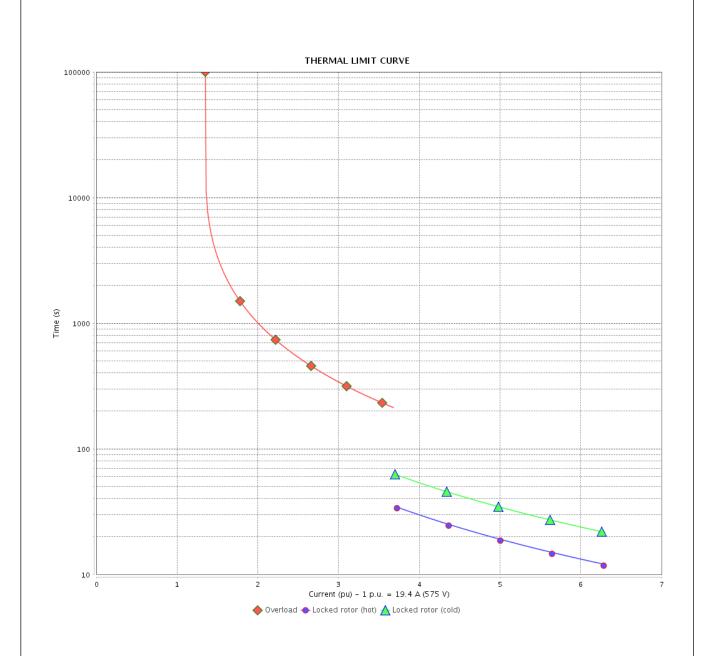
Customer	:					
Product line	: E	W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code :	14486218 02036OT3H2	54JP-W40
Performance		575 V 60 Hz 2P	N4	tia autia (I)	.00740 6"	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 que : 2 ue : 2	19.4 A 6.3 29.7 ft.lb 200 % 280 % 8535 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.8718 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant Rev.		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



Customer :

Checked by

Date

14/04/2022

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

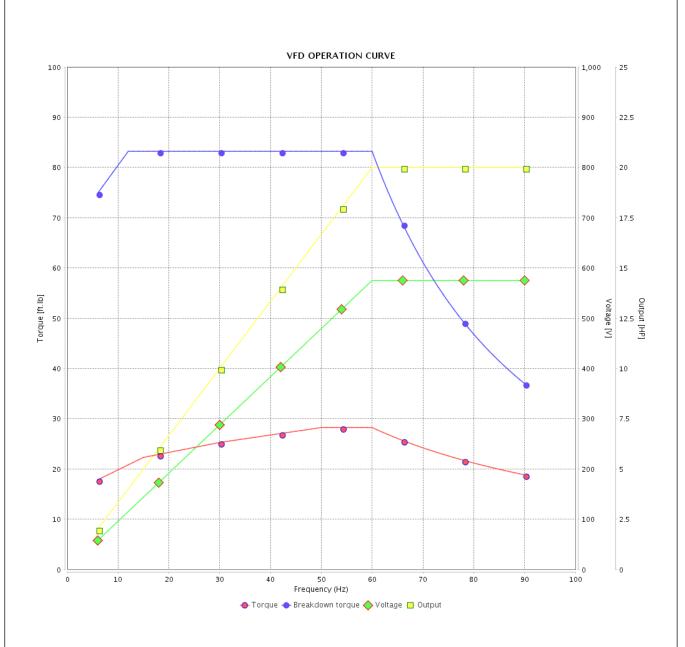
Product code: 14486218

Catalog #: 02036OT3H254JP-W40

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Revision



Performance	: 5	75 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 que : 2	9.4 A .3 9.7 ft.lb 00 % 80 % 535 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.8718 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	b
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