DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14270960 Three-Phase Catalog #: 07536OT3V364TS-W40 Frame : 364/5TS Locked rotor time : 34s (cold) 19s (hot) Output : 75 HP (55 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 : 195/97.5 A Protection degree : IP23 L. R. Amperes : 1287/644 A Cooling method : IC01 - ODP LRC : 6.6x(Code G) Mounting : F-1 No load current : 49.5/24.7 A Rotation¹ : Both (CW and CCW) Rated speed : 3555 rpm Noise level² : 84.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 111 ft.lb Approx. weight³ : 680 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 6.40 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads : 609 lb Efficiency (%) 91.0 91.7 93.0 93.6 Max. traction Power Factor 0.87 : 1289 lb 0.56 0.77 0.84 Max. compression

Drive end
Bearing typeNon drive end
6314 C3Non drive end
6212 Z C3Sealing:Without Bearing Seal
14418 hWithout Bearing Seal
20000 h

Lubricant amount : 27 g 13 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



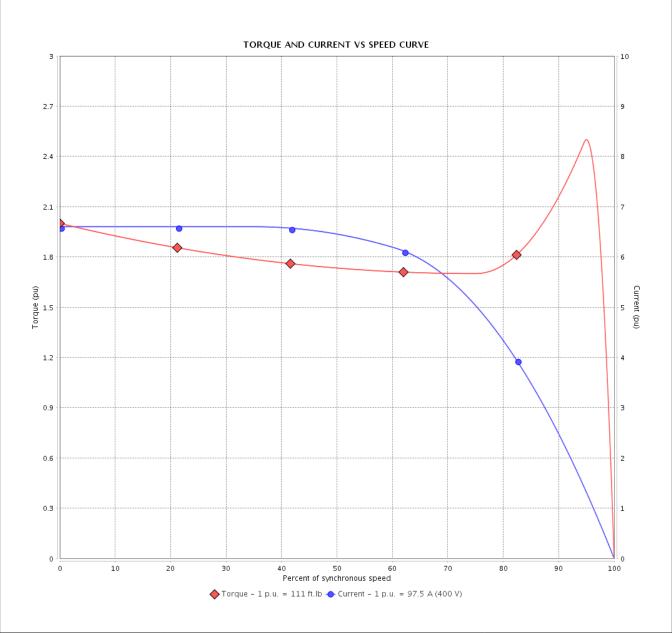
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270960

Catalog #: 07536OT3V364TS-W40



Performance : 200/400 V 60 Hz 2P Rated current : 195/97.5 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

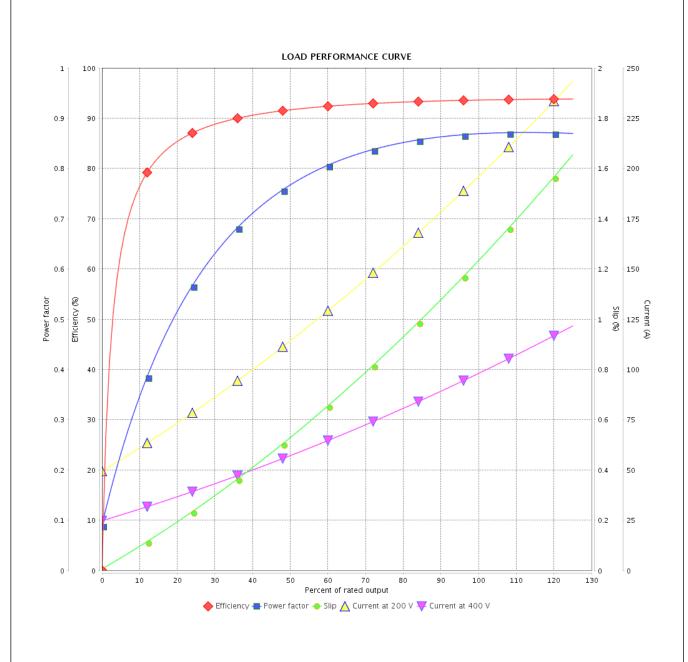


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14270960

Three-Phase

Catalog #: 07536OT3V364TS-W40



Performance	: 2	: 200/400 V 60 Hz 2P						
Rated current	: 1	95/97.5 A Moment of inertia (J)		: 6.40 sq.ft.lb				
LRC	: 6	3.6	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		111 ft.lb	Insulation class		: F			
Locked rotor torque		200 %	Service fa	Service factor		: 1.25		
Breakdown torque	e : 2	250 %	Temperature rise		: 80 K			
Rated speed	: 3	3555 rpm Design			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



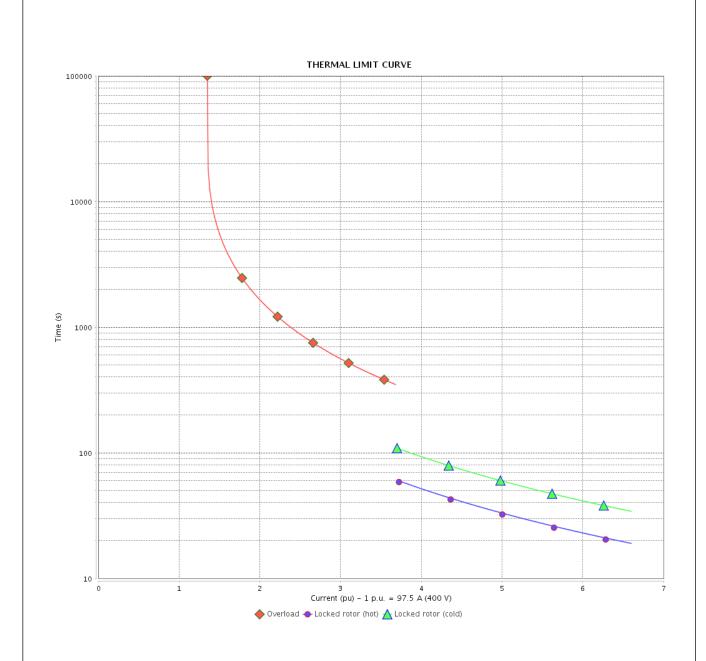
Customer	:					
Product line		W40 NEMA Premium Efficionree-Phase		Product code :	14270960 07536OT3V3	64TS-W40
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19 : 6. : 11 ue : 20 e : 29 : 38	00/400 V 60 Hz 2P 95/97.5 A 6 11 ft.lb 00 % 50 %	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 6.40 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant 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 :

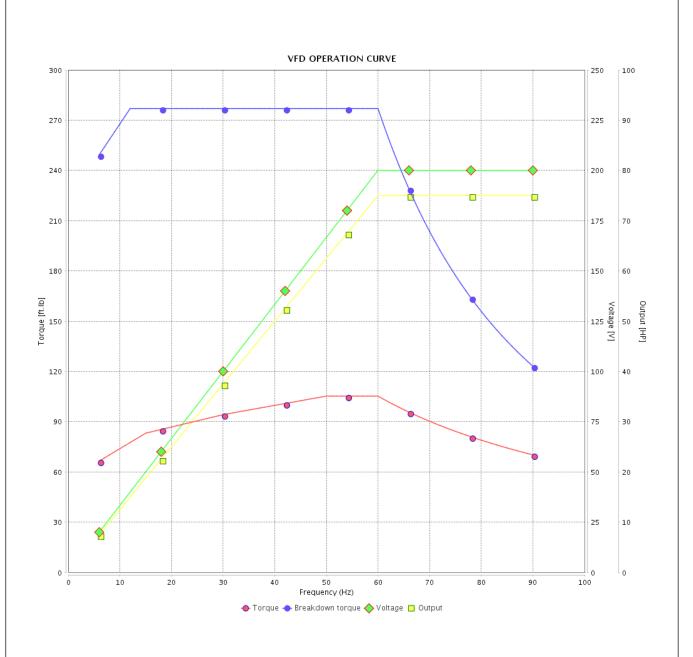
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270960

Catalog #: 07536OT3V364TS-W40

6/6



Performance	: 200/400 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 195/97.5 A : 6.6 : 111 ft.lb : 200 % : 250 % : 3555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.40 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Checked by				Page	Revision

13/04/2022

Date

