DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14270959 Three-Phase Catalog #: 07536OT3H364TS-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 : 575 V : 1000 m.a.s.l. Altitude Rated current : 67.8 A Protection degree : IP23 L. R. Amperes : 448 A Cooling method : IC01 - ODP LRC : 6.6x(Code G) Mounting : F-1 No load current : 17.2 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 : 712 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 Efficiency (%) 91.0 91.7 93.0 93.6 Max. traction : 593 lb Power Factor 0.87 0.56 0.77 0.84 Max. compression : 1305 lb Non drive end Drive end 6314 C3 Bearing type 6212 Z C3

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



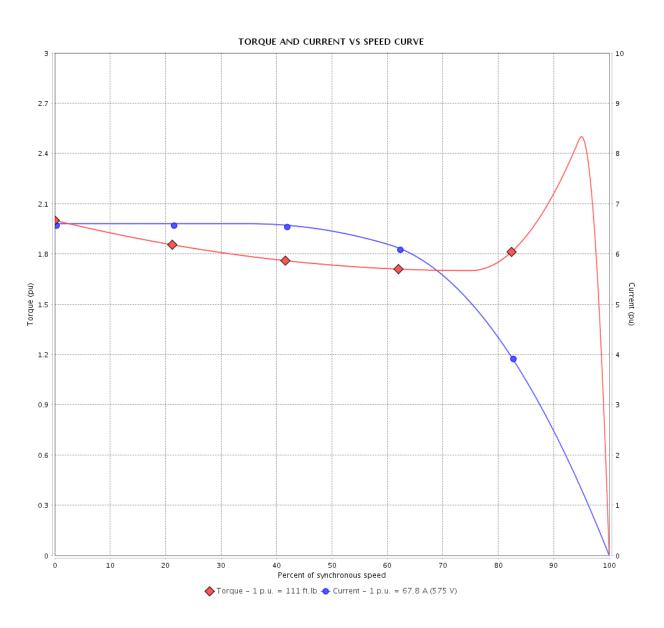
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270959

Catalog #: 07536OT3H364TS-W40



Performance : 575 V 60 Hz 2P Rated current : 67.8 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 Service factor Locked rotor torque : 200 % : 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

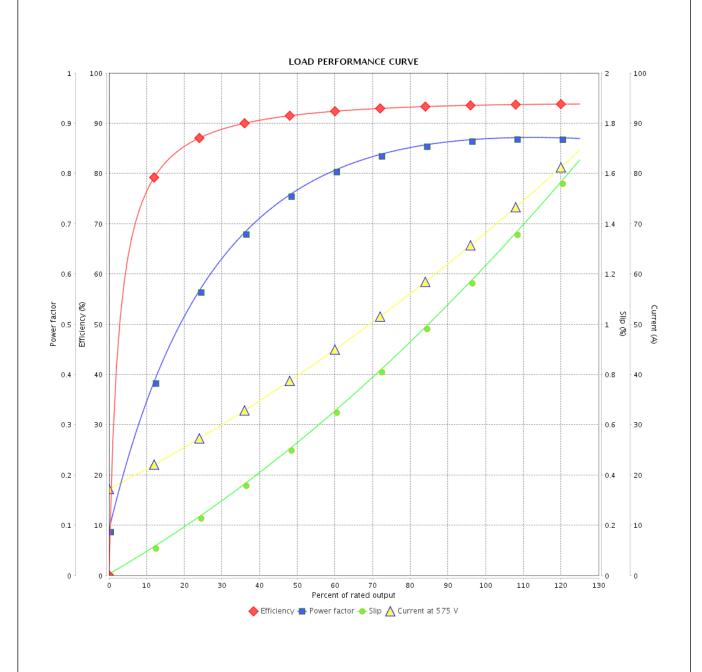


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14270959

Three-Phase

Catalog #: 07536OT3H364TS-W40



Performance : 5		75 V 60 Hz 2P				
Rated current :		7.8 A	Moment o	Moment of inertia (J)		
LRC : 6.		.6	Duty cycle	Duty cycle		
Rated torque		11 ft.lb	Insulation class		:F ` ´	
Locked rotor torque		00 %	Service fa	Service factor		
Breakdown torque	: 2	50 %	Temperati	Temperature rise		
Rated speed	: 3	555 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



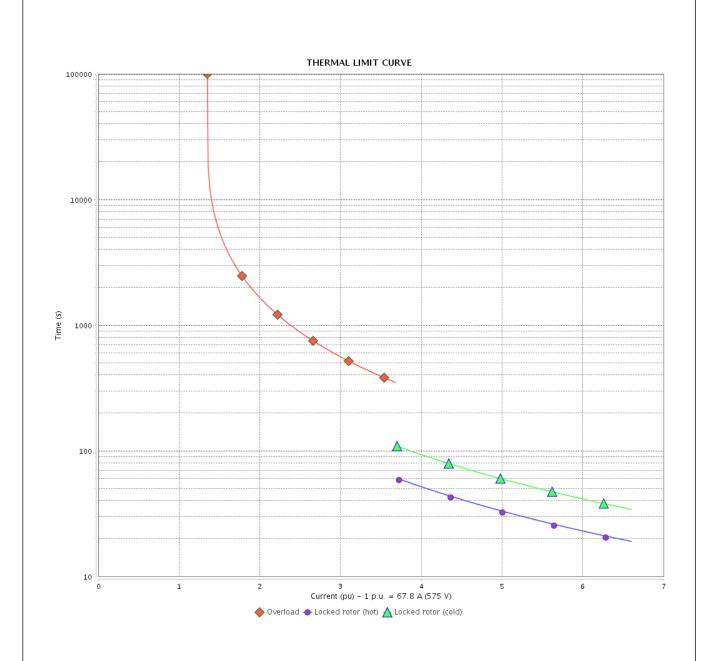
Customer	:					
Product line		Three-Phase		Product code :	14270959	
				Catalog # :	07536OT3H3	64TS-W40
Performance		75 V 60 Hz 2P	Г			
Rated current LRC	: 67 : 6.	7.8 A 6	Moment of Duty cycle	f inertia (J)	: 6.40 sq.ft.lb : Cont.(S1)	
Rated torque	: 11	11 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 50 %	Service fa		: 1.25 : 80 K	
Rated speed		555 rpm	Design	ire rise	: B	
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



Customer :

Date

13/04/2022

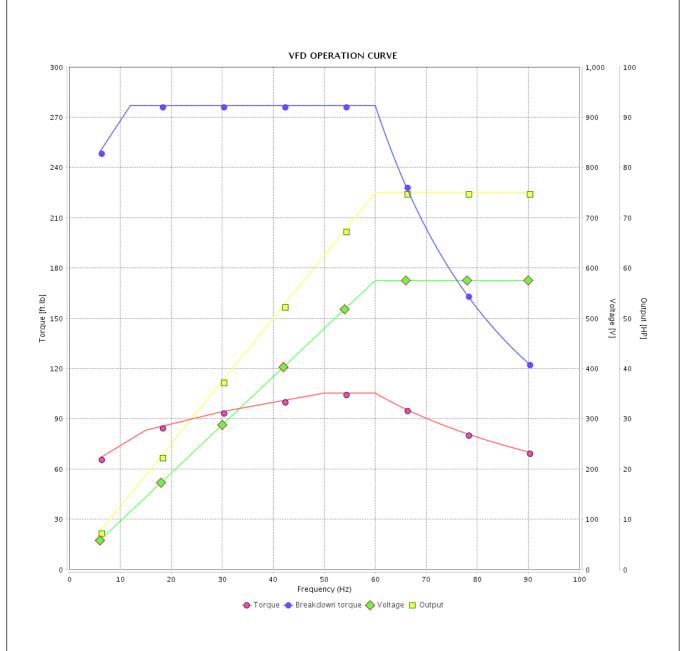
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270959

Catalog #: 07536OT3H364TS-W40

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Performance : 575 V 60 Hz 2P Rated current : 67.8 A Moment of inertia (J) : 6.40 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 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 Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

