DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14270939 Three-Phase Catalog #: 06018OT3H364TS-W40 Frame : 364/5TS Locked rotor time : 34s (cold) 19s (hot) Output : 60 HP (45 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 : 55.9 A Protection degree : IP23 L. R. Amperes : 363 A Cooling method : IC01 - ODP : 6.5x(Code G) LRC Mounting : F-1 No load current : 19.8 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 177 ft.lb Approx. weight³ : 739 lb Locked rotor torque : 200 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 15.6 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.0 : 1086 lb Efficiency (%) 94.4 94.5 95.0 Max. traction Power Factor 0.48 0.85 : 1825 lb 0.73 0.82 Max. compression Non drive end Drive end 6314 C3 Bearing type 6212 Z C3

Bearing type : 6314 C3 6212 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 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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Checked by				Page	Revision
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



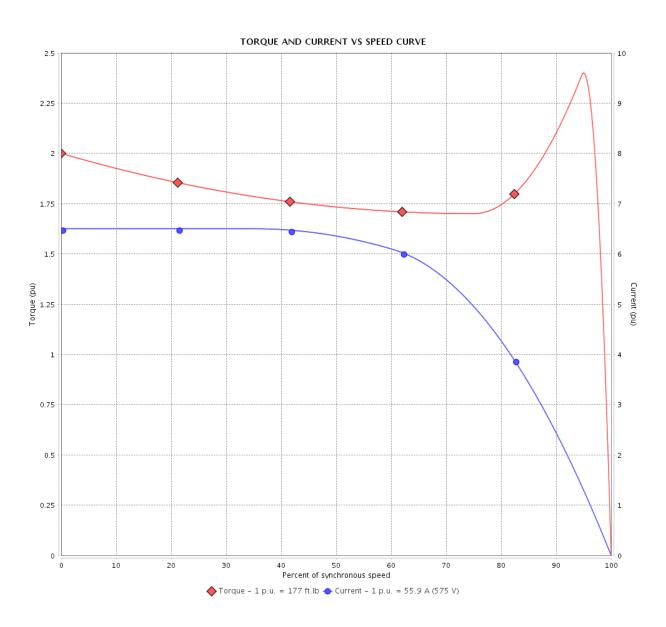
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270939

Catalog #: 06018OT3H364TS-W40



Performance : 575 V 60 Hz 4P Rated current : 55.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

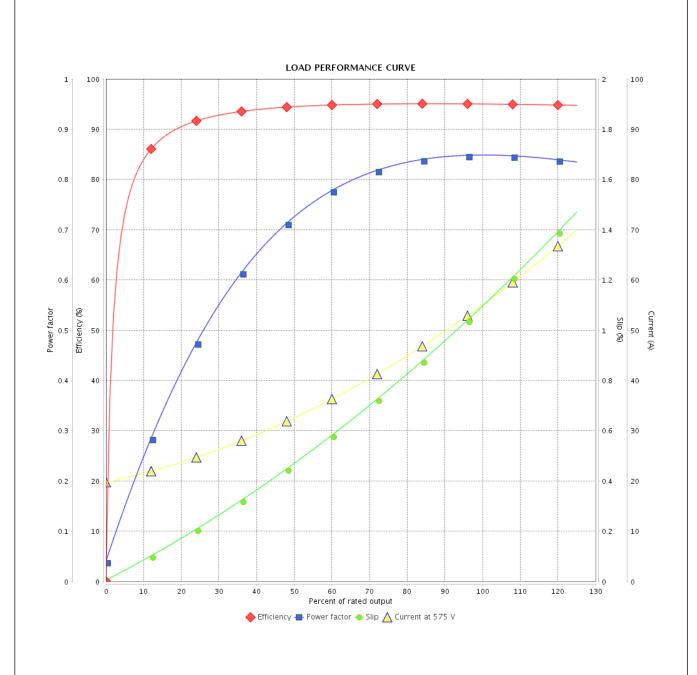
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #:

14270939

06018OT3H364TS-W40



Performance	:	: 575 V 60 Hz 4P						
Rated current	:	55.9 A Moment of inertia (J)		f inertia (J)	: 15.6 sq.ft.lb			
LRC		6.5	Duty cycle		: Cont.(S1)			
Rated torque	:	177 ft.lb	Insulation class		: F			
Locked rotor torque	e :	200 %	Service factor		: 1.25			
Breakdown torque	:	: 240 % Tem : 1780 rpm Des		ure rise	: 80 K			
Rated speed	:				: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



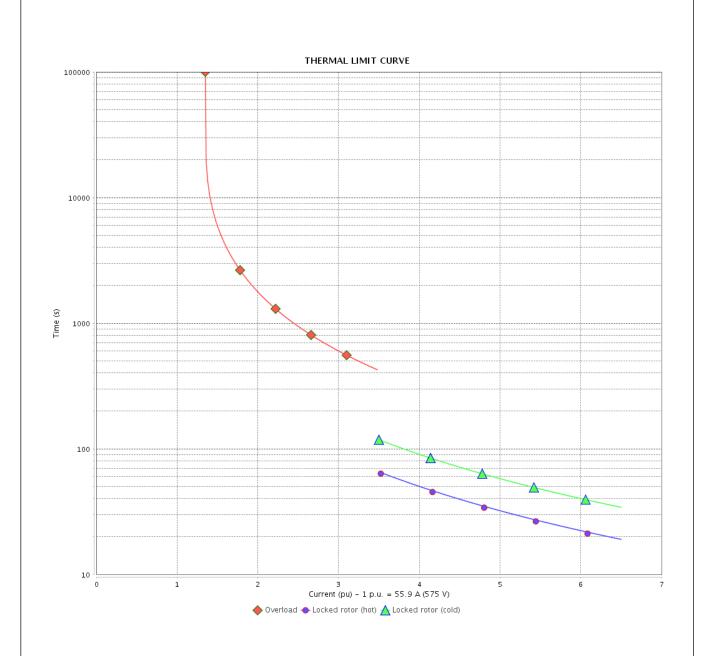
Customer	:					
Product line		W40 NEMA Premium Efficion hree-Phase	ency I	Product code :	14270939	
	''	nice i nasc	(Catalog # :	06018OT3H3	64TS-W40
Performance		75 V 60 Hz 4P			45.0 6.11	
Rated current LRC	: 55 : 6.	5.9 A 5	Moment of Duty cycle	f inertia (J)	: 15.6 sq.ft.lb : Cont.(S1)	
Rated torque		77 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 40 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant						
Cooling constant		01 0				
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Checked by					Page	Revision
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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

12/04/2022

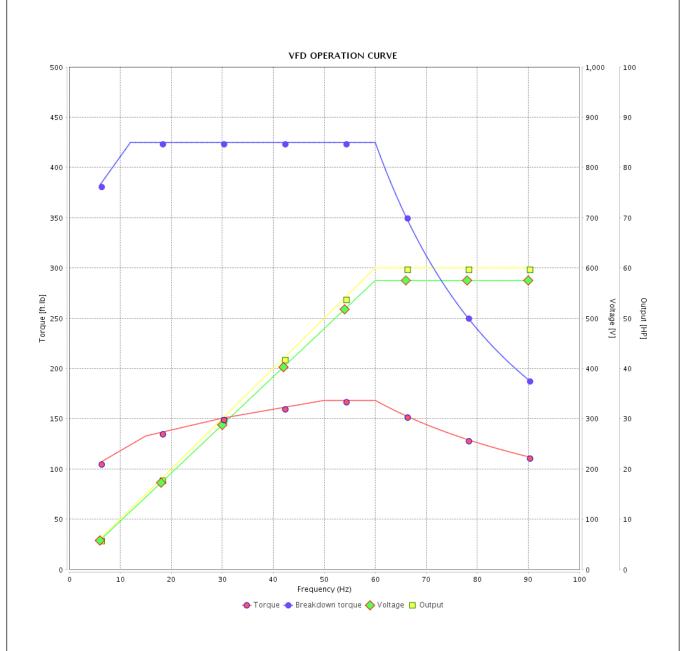
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270939

Catalog #: 06018OT3H364TS-W40

6/6



Performance : 575 V 60 Hz 4P Rated current : 55.9 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** Duty cycle : 6.5 : Cont.(S1) Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

