DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14270887 Three-Phase Catalog #: 06018OT3G364TS-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 : 460 V : 1000 m.a.s.l. Altitude Rated current : 69.9 A Protection degree : IP23 L. R. Amperes : 454 A Cooling method : IC01 - ODP LRC : 6.5x(Code G) Mounting : F-1 No load current : 24.7 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 : 1266 lb Efficiency (%) 94.4 94.5 95.0 Max. traction Power Factor 0.48 0.85 : 2006 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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



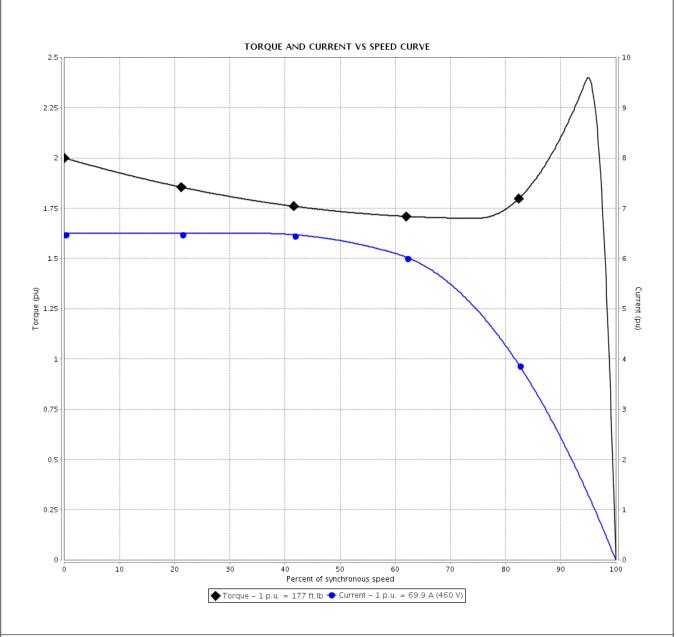
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270887

Catalog #: 06018OT3G364TS-W40



Performance : 460 V 60 Hz 4P Rated current : 69.9 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 Locked rotor torque : 200 % Service factor : 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



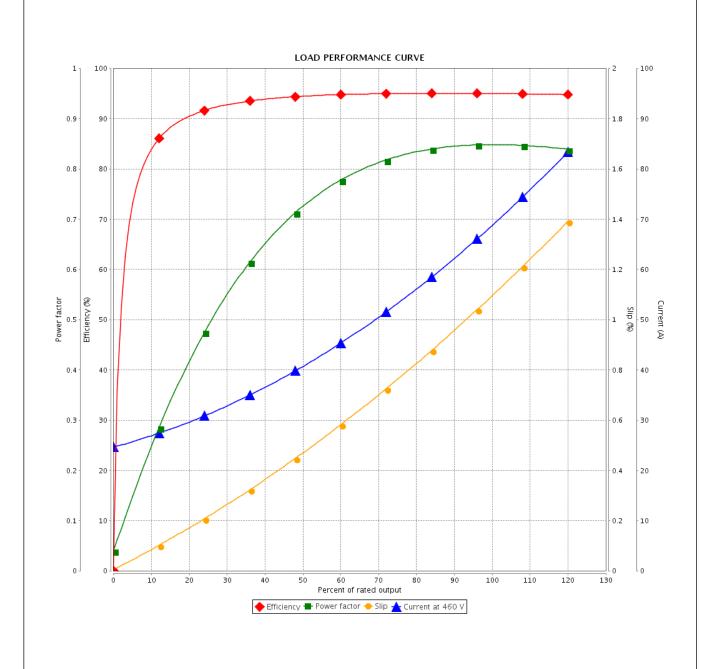
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 14270887

Catalog #: 06018OT3G364TS-W40



Performance	: 4	60 V 60 Hz 4P				
Rated current :		9.9 A	Moment o	Moment of inertia (J)		
LRC : 6.		.5	Duty cycle		: Cont.(S1)	
Rated torque :		77 ft.lb	Insulation class		: F	
		00 %	Service factor		: 1.25	
Breakdown torque		40 %	Temperature rise		: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



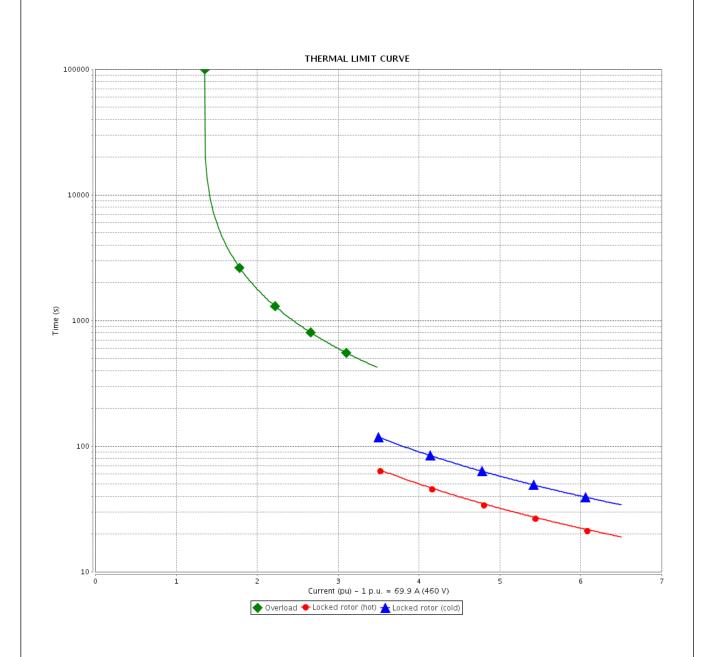
Customer	:				,	
Product line		N40 NEMA Premium Efficie	ency I	Product code :	14270887	
	TI	nree-Phase	(Catalog # :	06018OT3G3	64TS-W40
Performance	: 46	60 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6. : 17 ue : 20 e : 2	77 ft.lb 00 % 40 %	Duty cycle Insulation Service fac Temperatu	class ctor	: 15.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed		780 rpm	Design		: 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 :

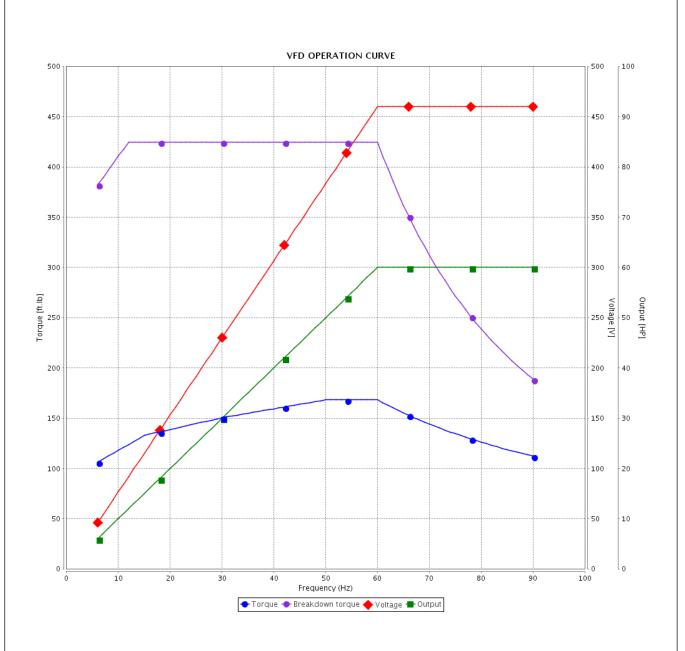
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270887

Catalog #: 06018OT3G364TS-W40

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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.9 A : 6.5 : 177 ft.lb : 200 % : 240 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 15.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Performed by					
Checked by				Page	Revision

10/04/2020

Date

