DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14270940 Three-Phase Catalog #: 06018OT3V364TS-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 : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 161/80.4 A Protection degree : IP23 L. R. Amperes : 1045/523 A Cooling method : IC01 - ODP LRC : 6.5x(Code G) Mounting : F-1 No load current : 56.8/28.4 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 : 740 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 Efficiency (%) 94.4 94.5 95.0 Max. traction : 1085 lb Power Factor 0.48 0.85 0.73 0.82 Max. compression : 1826 lb Non drive end Drive end

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



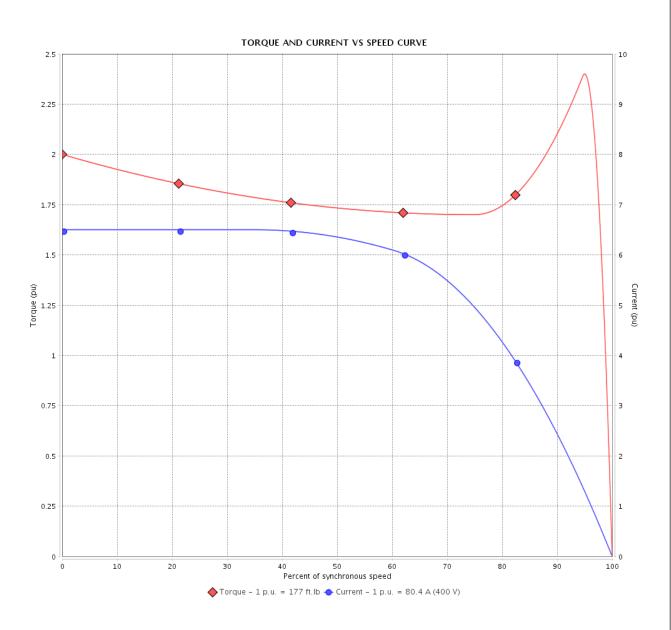
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270940

Catalog #: 06018OT3V364TS-W40



: 200/400 V 60 Hz 4P Performance Rated current : 161/80.4 A Moment of inertia (J) : 15.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : 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



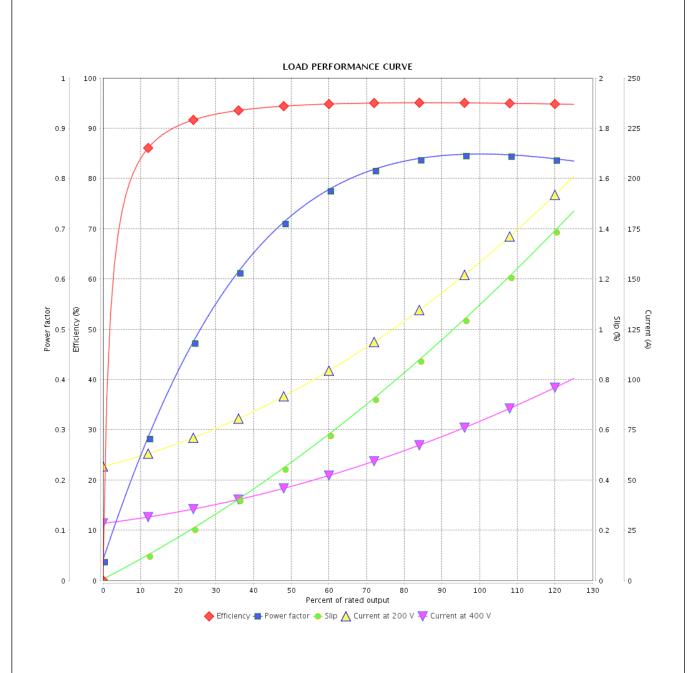
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 06018OT3V364TS-W40

14270940



Performance	: 2	: 200/400 V 60 Hz 4P						
Rated current		61/80.4 A	Moment of inertia (J)		: 15.6 sq.ft.lb			
LRC		6.5	Duty cycle		: Cont.(S1)			
Rated torque Locked rotor torque		177 ft.lb 200 %	Insulation class Service factor		: F : 1.25			
Breakdown torque		240 %	Temperati	Temperature rise				
Rated speed	: 1	780 rpm	Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



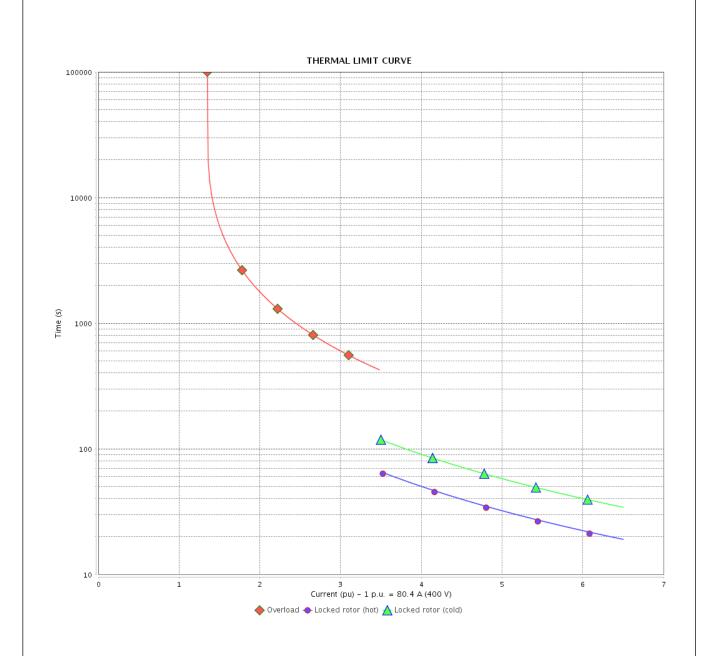
Customer		:				
Product line		: W40 NEMA Premium Efficie	anav.	Product code :	14270940	
Floductille		Three-Phase	ысу	Floudel code .	14270940	
				Catalog # :	06018OT3V3	64TS-W40
Performance	<u> </u>	200/400 V 60 Hz 4P				
Rated current		161/80.4 A	Moment o	of inertia (J)	: 15.6 sq.ft.lb	
LRC		6.5	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		177 ft.lb 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie :	240 %	Temperati		: 80 K	
Rated speed		1780 rpm	Design		: 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 :

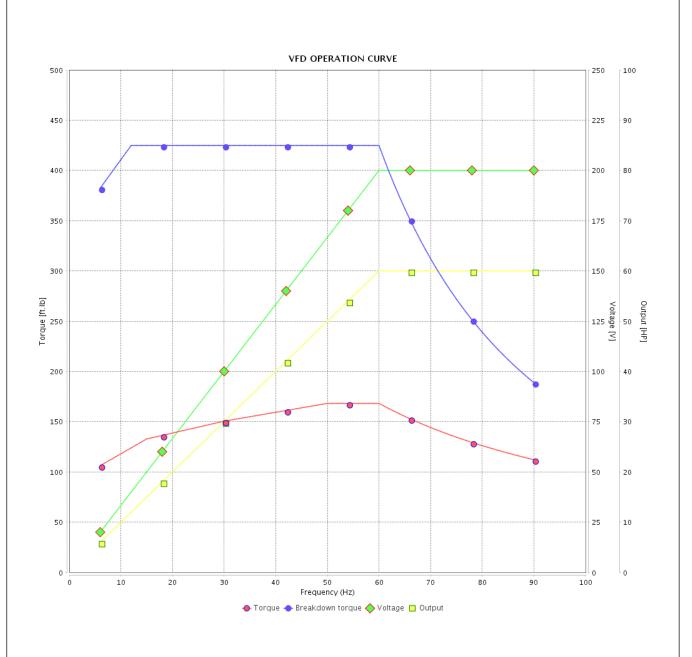
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14270940

Catalog #: 06018OT3V364TS-W40

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Performance	: 2	200/400 V 60 Hz 4F	D			
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 0 : 1 : 1 : 1 : 2	161/80.4 A 3.5 177 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

12/04/2022

Date

