DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 High Efficiency Three-Phase Product code: 14281213 Catalog #: 06018OP3VFP364TS-W40 : 364/5TS Locked rotor time Frame : 39s (cold) 22s (hot) Output : 60 HP (45 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 200/400 V Rated voltage Altitude : 1000 m.a.s.l. Protection degree Rated current : 163/81.7 A : IP23 Cooling method : IC01 - ODP L. R. Amperes : 1000/498 A **LRC** : 6.1x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 52.9/26.5 A Rotation¹ Rated speed : 1777 rpm Starting method : Direct On Line Slip : 1.28 % Approx. weight3 : 662 lb Rated torque : 177 ft.lb Locked rotor torque : 180 % Breakdown torque : 229 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 12.8 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.9 93.0 93.6 93.6 Max. traction : 1066 lb Power Factor : 1729 lb 0.49 0.73 0.82 0.85 Max. compression Non drive end Drive end 6314 C3 Bearing type 6212 Z C3 Without Bearing Seal Without Bearing Seal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 13 g 27 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

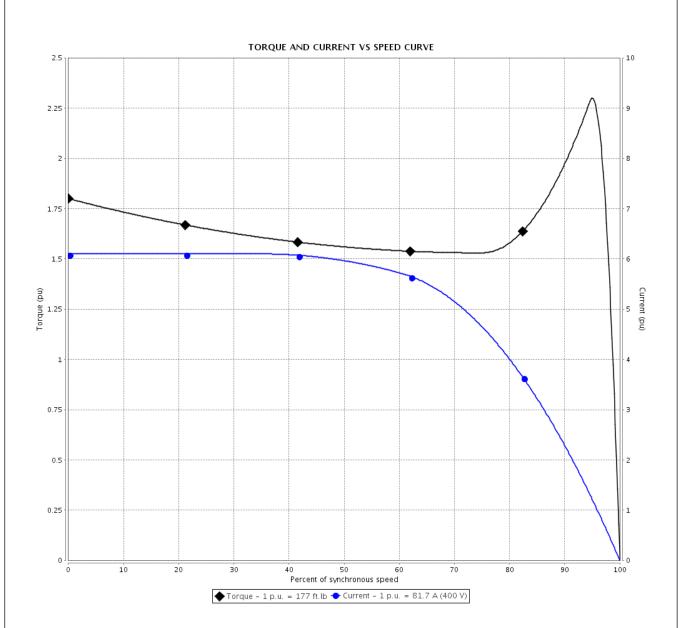
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14281213

Catalog # : 06018OP3VFP364TS-W40



: 200/400 V 60 Hz 4P Performance Rated current : 163/81.7 A Moment of inertia (J) : 12.8 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Service factor Locked rotor torque : 180 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1777 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

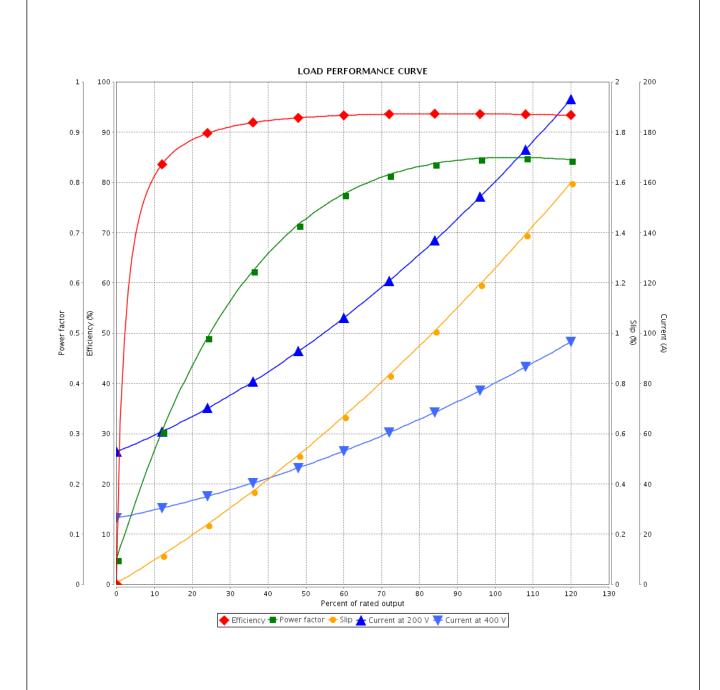
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 High Efficiency Three-Phase Product code : 14281213

Catalog # : 06018OP3VFP364TS-W40



Performance	: 2	00/400 V 60 Hz 4P					
Rated current		63/81.7 A	Moment o	Moment of inertia (J)			
LRC : 6		.1	Duty cycle	Duty cycle			
Rated torque		77 ft.lb	Insulation class		: F		
Locked rotor torque :		80 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 2	29 %	Temperati	Temperature rise			
Rated speed	: 1	: 1777 rpm Design			: B	\$	
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THERMAL LIMIT CURVE

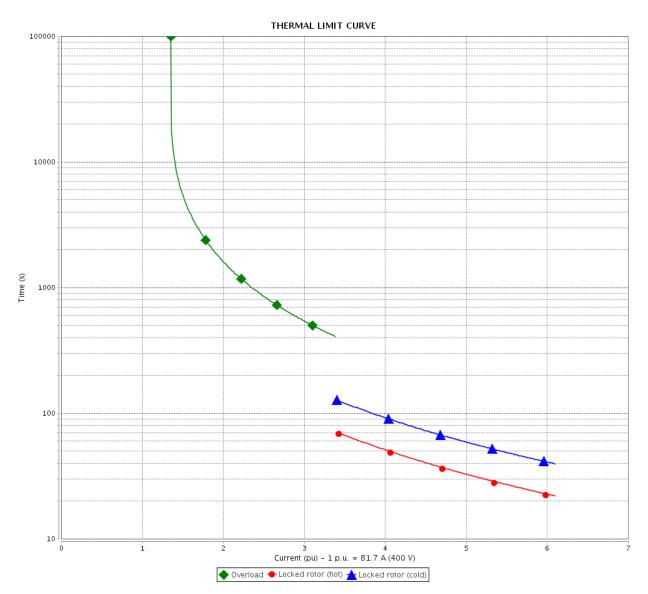
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Product line : W40 High Efficiency Three-Phase Product code : 14281213

Catalog # : 06018OP3VFP364TS-W40



Performance : 200/400 V 60 Hz 4P Rated current : 163/81.7 A Moment of inertia (J) : 12.8 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : F Rated torque : 177 ft.lb Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 229 % : 80 K Temperature rise Rated speed : 1777 rpm Design Heating constant

Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

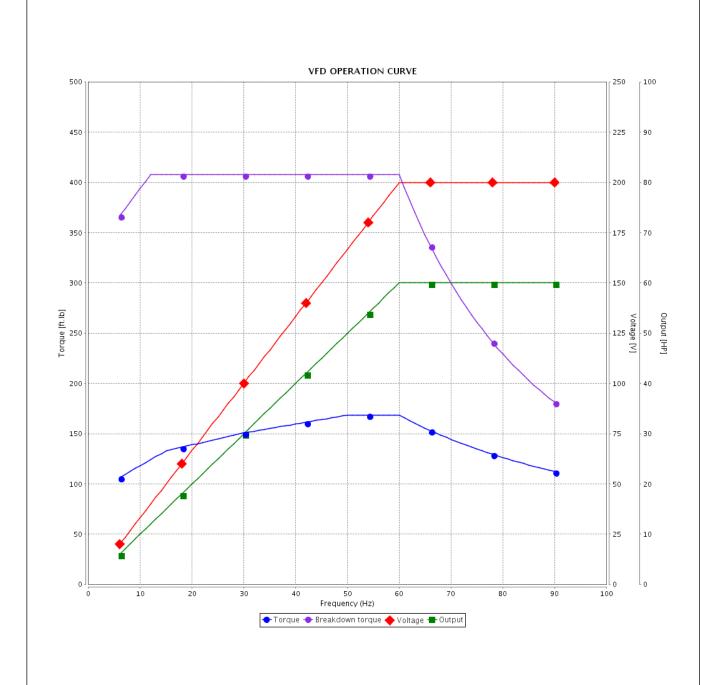
Date

10/04/2020

Product line : W40 High Efficiency Three-Phase Product code : 14281213

Catalog # : 06018OP3VFP364TS-W40

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Performance	: 200/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 163/81.7 A : 6.1 : 177 ft.lb : 180 % : 229 % : 1777 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 12.8 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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