DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14495599 Three-Phase Catalog #: 02536OT3H256TC-W40 Frame : 254/6TC Locked rotor time : 19s (cold) 11s (hot) Output : 25 HP (18.5 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 : 23.0 A Protection degree : IP23 : 150 A L. R. Amperes Cooling method : IC01 - ODP LRC : 6.5x(Code G) Mounting : F-1 No load current : 6.80 A Rotation¹ : Both (CW and CCW) Rated speed : 3535 rpm Starting method : Direct On Line Slip : 1.81 % Approx. weight³ : 253 lb Rated torque : 37.1 ft.lb Locked rotor torque : 200 % Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.13 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 91.0 91.7 Efficiency (%) 91.7 Max. traction Power Factor 0.85 0.77 0.88 Max. compression Non drive end Drive end Bearing type 6309 Z C3 6209 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 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



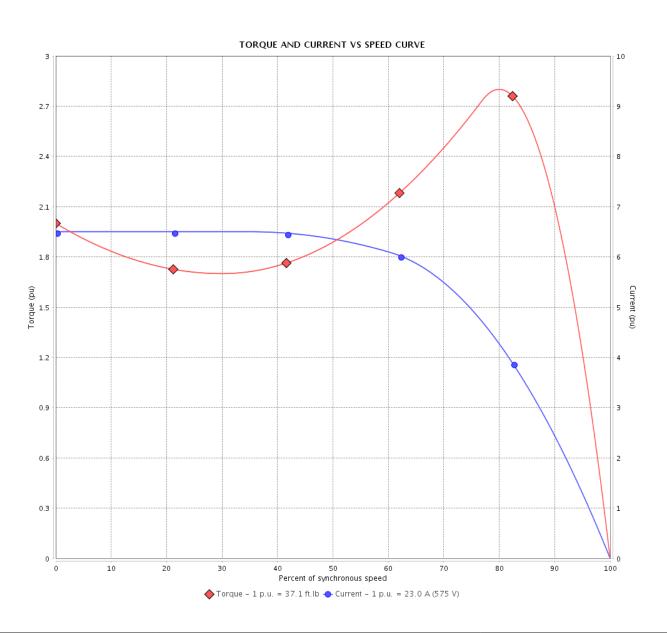
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495599

Catalog #: 02536OT3H256TC-W40



Performance : 575 V 60 Hz 2P Rated current : 23.0 A Moment of inertia (J) : 1.13 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 37.1 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

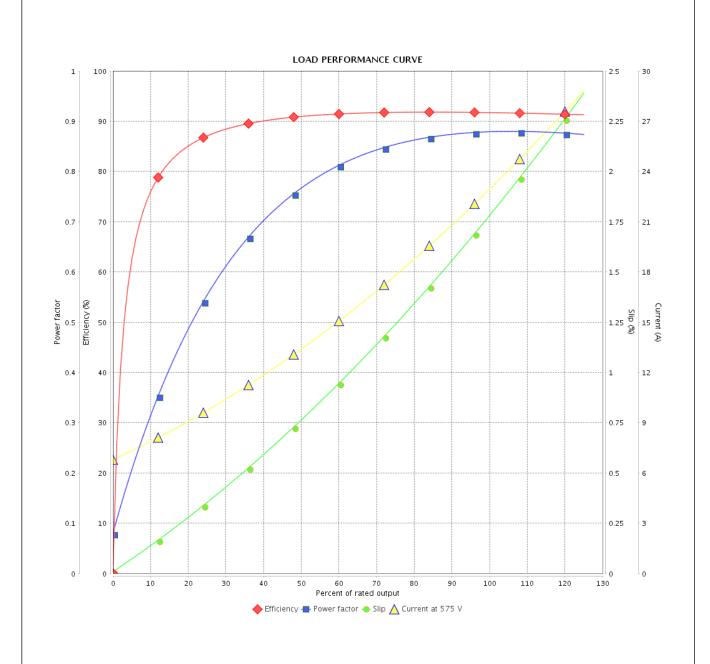
Product line : W40 NEMA Premium Efficiency Pro

Three-Phase

Product code: 14495599

Catalog #: 02536OT3H256TC-W40

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Performance	: 575 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 23.0 A : 6.5 : 37.1 ft.lb : 200 % : 280 % : 3535 rpm	Duty cycle Insulation of Service fac	Insulation class Service factor Temperature rise			
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14/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



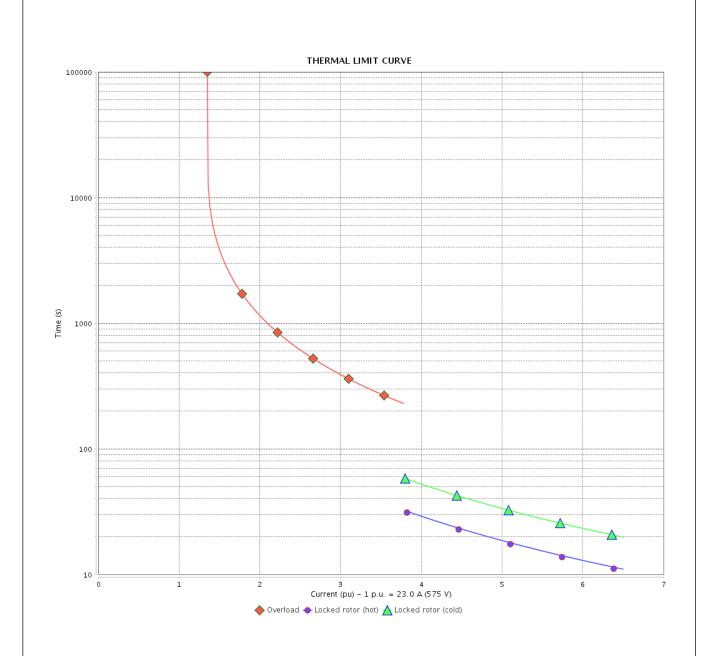
Customer	:				_	
Product line		: W40 NEMA Premium Efficie		Product code :	14495599	
		Three-Phase		Catalog # :	02536OT3H2	56TC-W40
Performance		75 V 60 Hz 2P				
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 1.13 sq.ft.lb : Cont.(S1)	
Rated torque		7.1 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 30 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		535 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



Revision

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Customer :

Checked by

Date

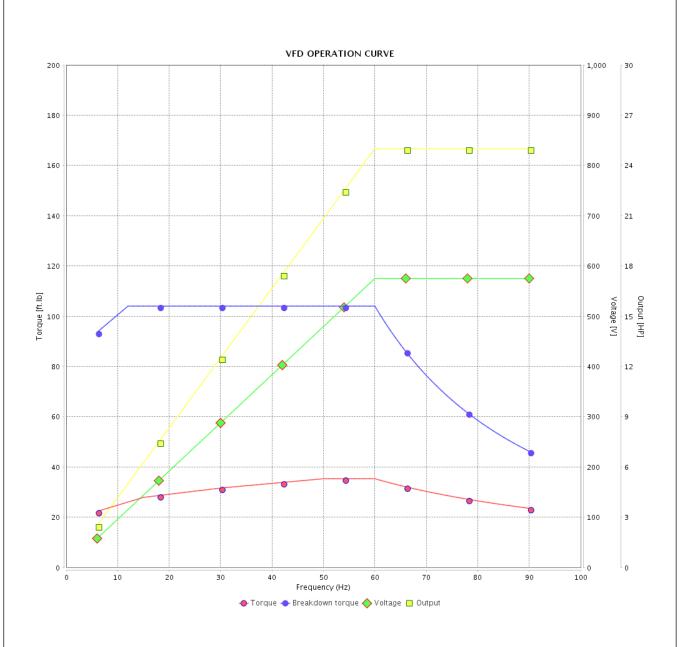
14/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495599

Catalog #: 02536OT3H256TC-W40



Performance : 575 V 60 Hz 2P Rated current : 23.0 A Moment of inertia (J) : 1.13 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class : 37.1 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

