DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14495228 Three-Phase Catalog #: 02536OT3H256T-W40 Frame : 254/6T 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 : 235 lb Slip : 1.81 % Approx. weight³ 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 25% 50% 75% 100% Output Foundation loads 91.7 Efficiency (%) 90.8 91.0 91.7 Max. traction Power Factor 0.88 0.53 0.77 0.85 Max. compression Non drive end Drive end 6309 Z C3 Bearing type 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



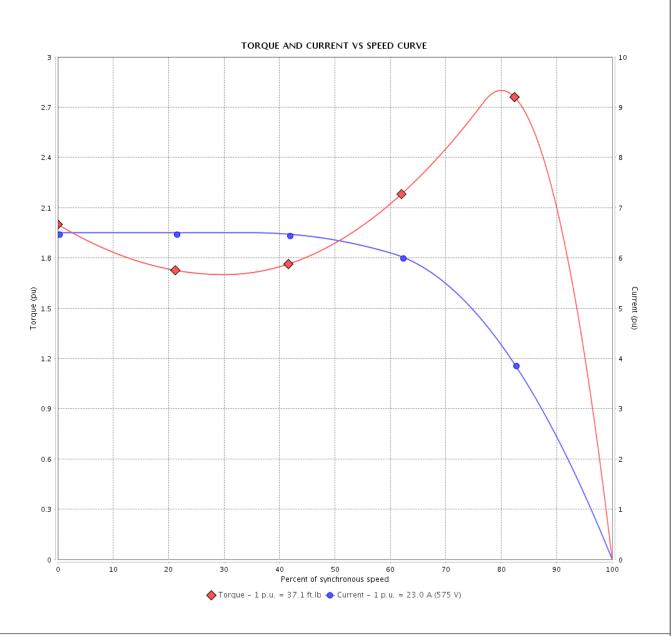
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495228

Catalog #: 02536OT3H256T-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



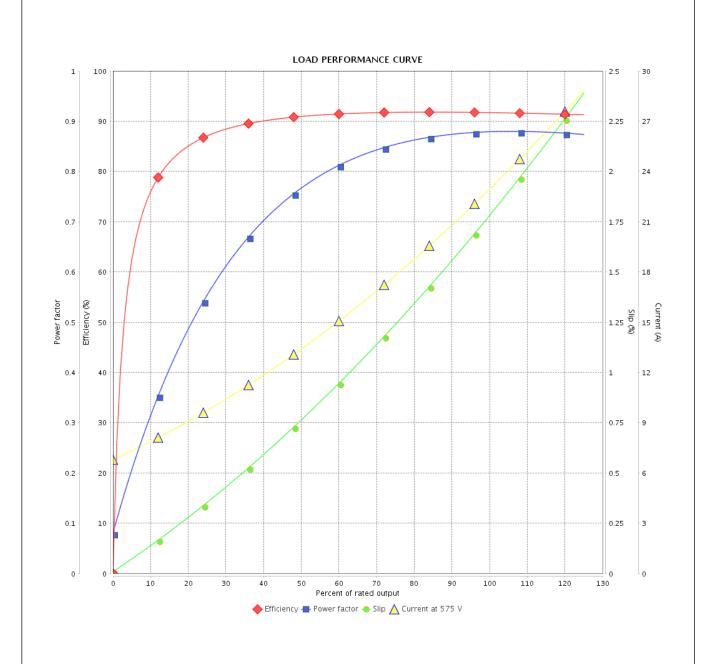
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495228

Three-Phase

Catalog #: 02536OT3H256T-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	Moment of Duty cycle Insulation of Service fac Temperatur Design	class tor	: 1.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



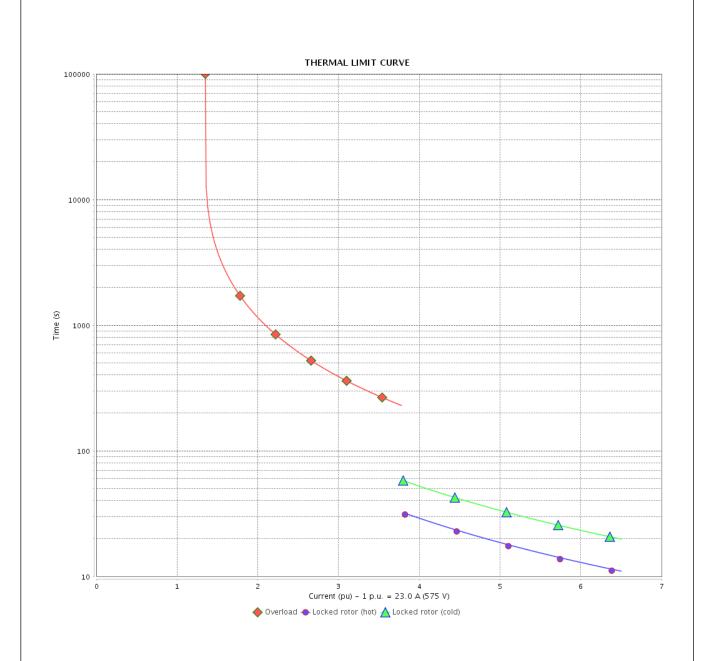
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Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14495228	
				Catalog # :	02536OT3H2	56T-W40
Performance		575 V 60 Hz 2P		5 ; (; ())	4.40 6.11	
Rated current LRC		23.0 A 6.5	Duty cycle	of inertia (J)	: 1.13 sq.ft.lb : Cont.(S1)	
Rated torque		37.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		200 % 280 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		3535 rpm	Design		: B	
Heating constant	t					
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 :

Checked by

Date

14/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

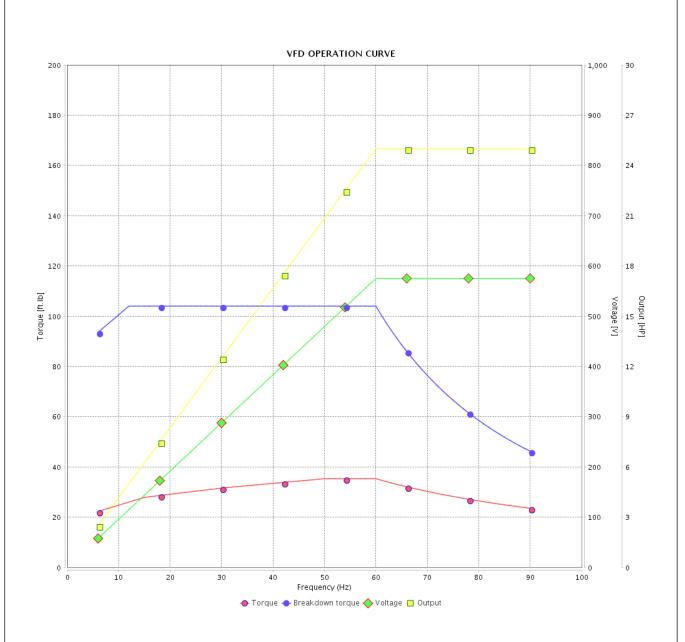
Product code: 14495228

Catalog #: 02536OT3H256T-W40

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Revision



Performance	: 5	575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 3 que : 2	23.0 A 5.5 87.1 ft.lb 200 % 280 % 8535 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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