### **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 Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3535 rpm Starting method : Direct On Line : 235 lb Slip : 1.81 % Approx. weight<sup>3</sup> 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

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



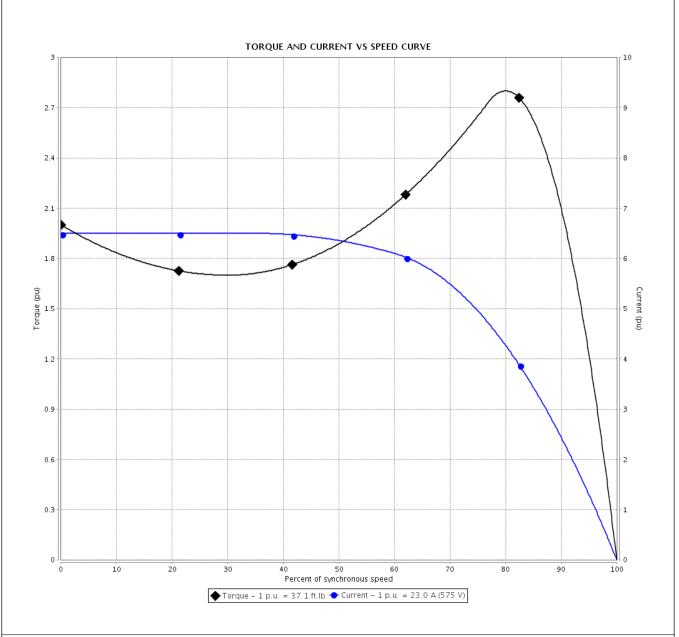
Customer :

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

Checked by

Date

11/04/2020

Product line : W40 NEMA Premium Efficiency Product code : 14495228

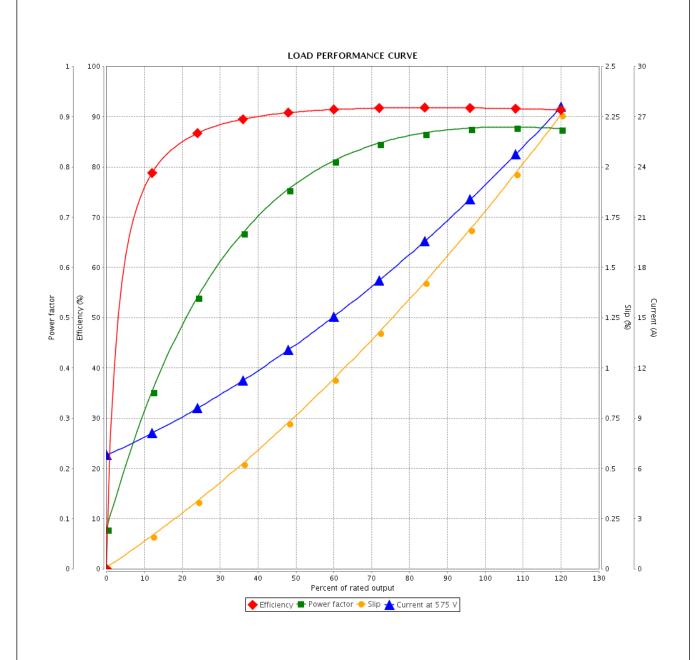
Three-Phase

Catalog #: 02536OT3H256T-W40

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Performance	: 575 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



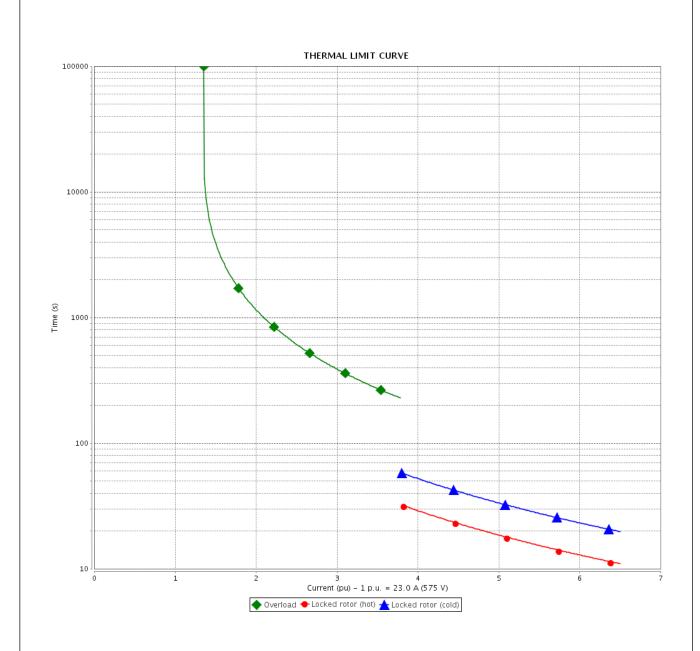
Customer	:					
Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14495228	
	''	ilee-i ilase	(	Catalog # :	02536OT3H2	56T-W40
Performance		75 V 60 Hz 2P				
Rated current LRC	: 23 : 6.	3.0 A 5	Moment of Duty cycle	f inertia (J)	: 1.13 sq.ft.lb : Cont.(S1)	
Rated torque	: 37	7.1 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 30 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		535 rpm	Design		: B	
Heating constant						
Cooling constant		Changes O		Derf 1	Ohl !	D-4-
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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



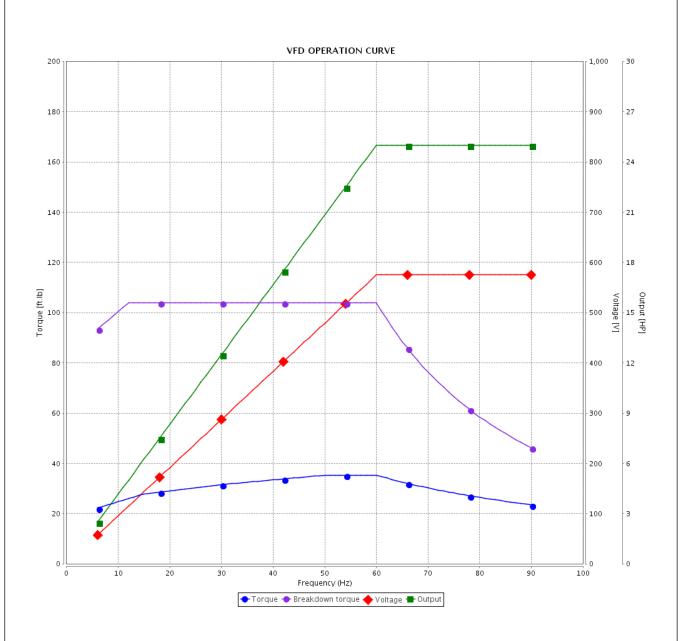
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 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)	
Rated torque	: 37.1 ft.lb	Insulation class		:F ` ´	
Locked rotor torque	: 200 %	: 200 % Service factor : 280 % Temperature rise : 3535 rpm Design		: 1.25	
Breakdown torque	: 280 %			: 80 K	
Rated speed	: 3535 rpm			: B	
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11/04/2020

Date