### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14494775 Three-Phase Catalog #: 02018OT3H256T-W40 Frame : 254/6T Locked rotor time : 46s (cold) 26s (hot) Output : 20 HP (15 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 : 19.3 A Protection degree : IP23 L. R. Amperes : 123 A Cooling method : IC01 - ODP : 6.4x(Code G) LRC Mounting : F-1 No load current : 8.00 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1770 rpm Noise level<sup>2</sup> : 62.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight<sup>3</sup> : 276 lb Locked rotor torque : 220 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.13 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 Efficiency (%) 92.2 92.4 93.0 Max. traction Power Factor 0.84 0.43 0.69 0.79 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 9 g 13 g

Mobil Polyrex EM

Notes

Lubricant type

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



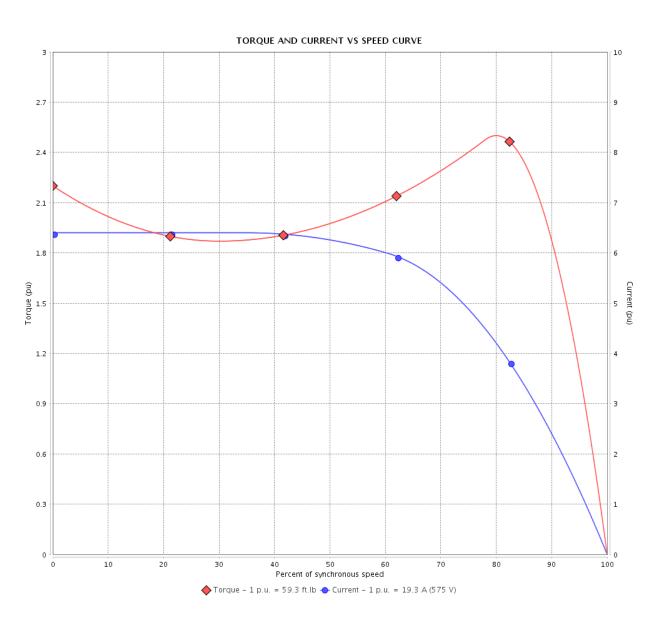
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494775

Catalog #: 02018OT3H256T-W40



Performance : 575 V 60 Hz 4P Rated current : 19.3 A Moment of inertia (J) : 3.13 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



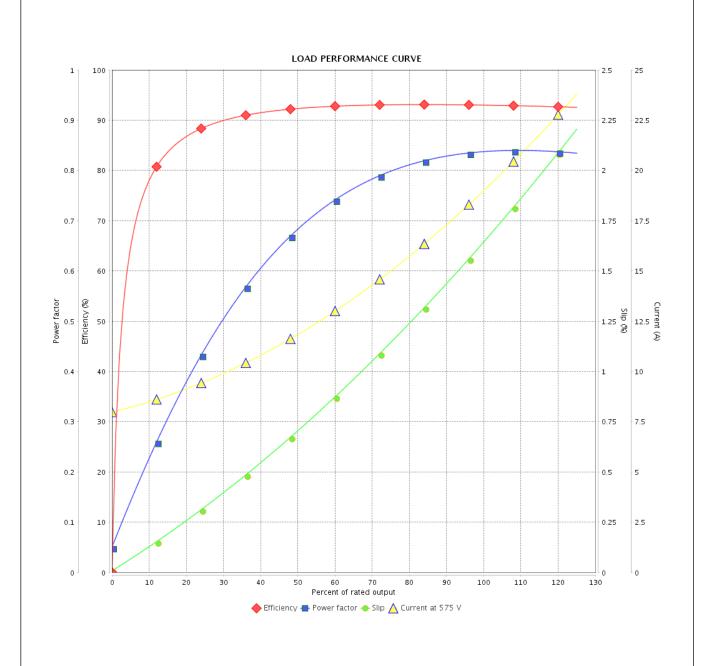
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14494775

Three-Phase

Catalog #: 02018OT3H256T-W40

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Performance	: 575 V 60 Hz 4P				
Rated current	: 19.3 A	Moment of inertia (J)		: 3.13 sq.ft.lb	
LRC	: 6.4	Duty cycle		: Cont.(S1)	
Rated torque	: 59.3 ft.lb	Insulation class		:F	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 250 %	Temperature rise Design		: 80 K	
Rated speed	: 1770 rpm			: B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



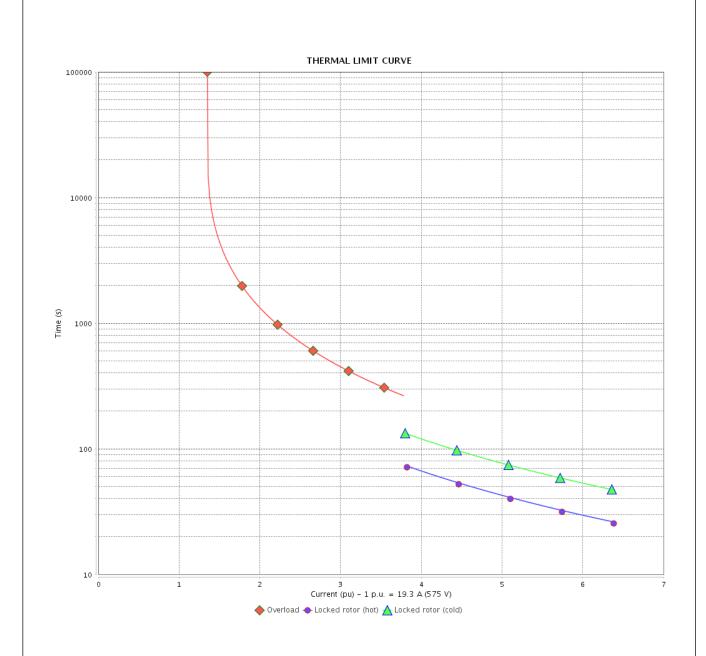
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Product line		W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14494775		
			1	Catalog # :	02018OT3H2	56T-W40	
Performance	٠ إ	575 V 60 Hz 4P					
Rated current		19.3 A	Moment o	f inertia (J)	: 3.13 sq.ft.lb		
LRC	: 6	: 6.4 Duty		<b>;</b>	: Cont.(S1)	: Cont.(S1)	
Rated torque Locked rotor tord		: 59.3 ft.lb Insulatio			: F : 1.25		
Breakdown torque		250 %	Temperatu		: 80 K		
Rated speed		1770 rpm	Design		: B		
Heating constan							
Cooling constan	t	Changes Commercial		Dorforms!	Chestes	Data	
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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

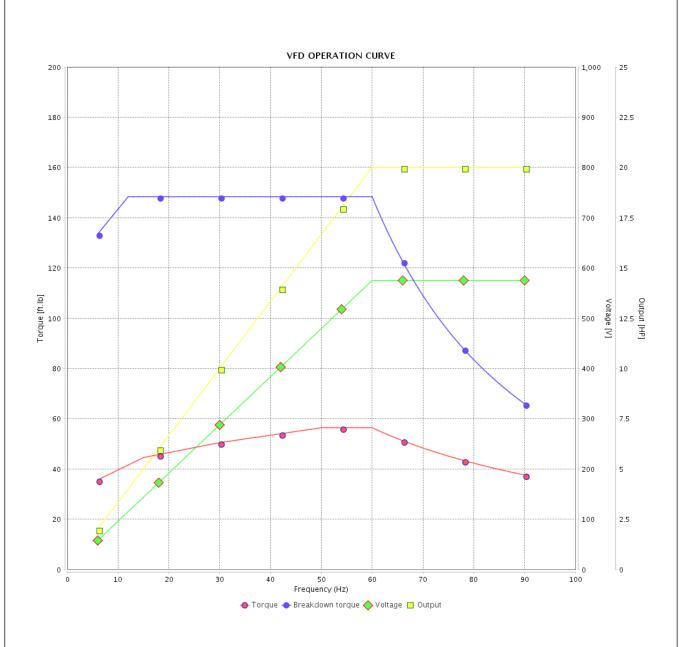
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Performance	: 5	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 5 que : 2	9.3 A 6.4 9.3 ft.lb 20 % 50 % 770 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 3.13 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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