### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14494125 Three-Phase Catalog #: 01012OT3H256TC-W40 Frame : 254/6TC Locked rotor time : 30s (cold) 17s (hot) Output : 10 HP (7.5 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 : 10.2 A Protection degree : IP23 L. R. Amperes : 69.6 A Cooling method : IC01 - ODP LRC : 6.8x(Code H) Mounting : F-1 No load current : 4.88 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1180 rpm Noise level<sup>2</sup> : 59.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 44.5 ft.lb Approx. weight<sup>3</sup> : 276 lb Locked rotor torque : 229 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.53 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.7 Efficiency (%) 89.4 90.2 91.0 Max. traction Power Factor 0.37 0.74 0.80 0.62 Max. compression Non drive end Drive end

Bearing type : 6309 Z C3 6209 Z C3
Sealing : 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



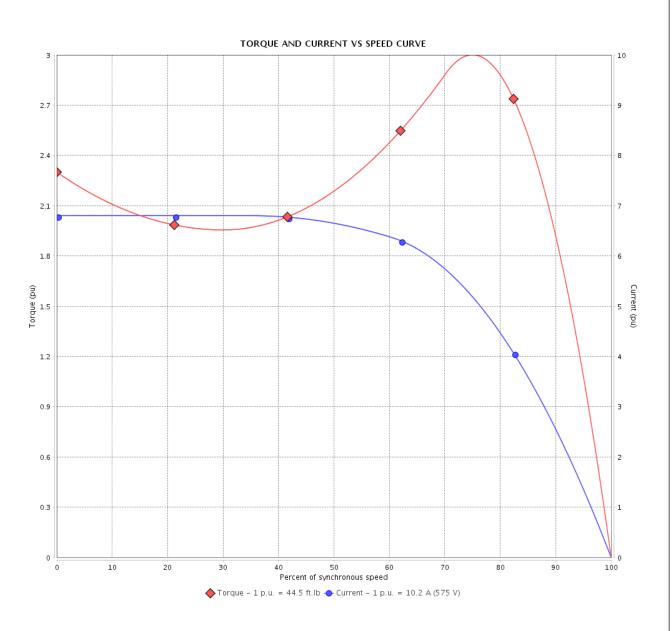
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494125

Catalog #: 01012OT3H256TC-W40



Performance : 575 V 60 Hz 6P Rated current : 10.2 A Moment of inertia (J) : 3.53 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F : 229 % Service factor Locked rotor torque : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



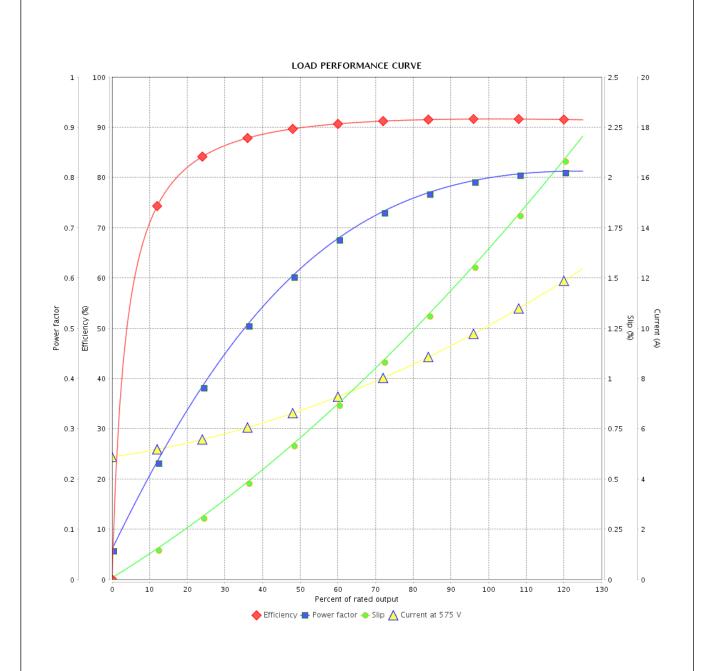
Customer

Product line : W40 NEMA Premium Efficiency Product code : 14494125

Three-Phase

Catalog #: 01012OT3H256TC-W40

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Performance	: 575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.2 A : 6.8 : 44.5 ft.lb : 229 % : 300 % : 1180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.53 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



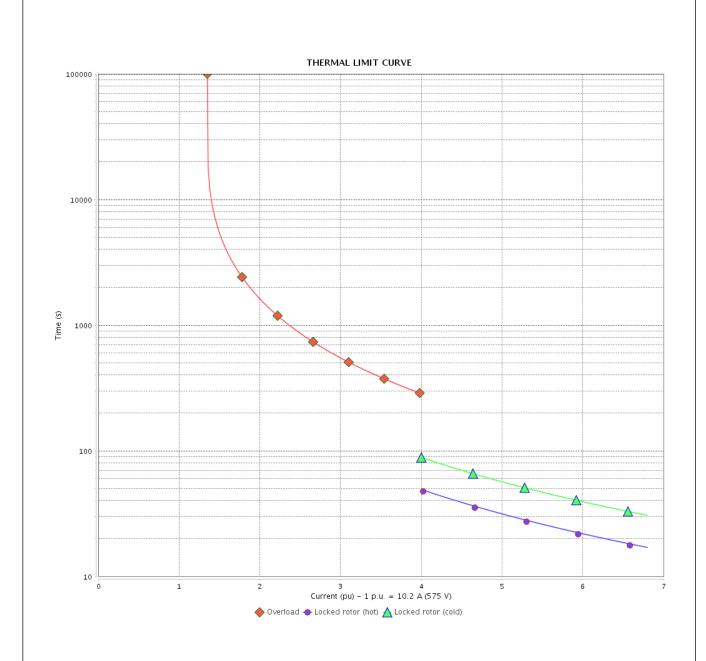
Customer	:					
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14494125	
				Catalog # :	01012OT3H2	56TC-W40
Performance		75 V 60 Hz 6P				
Rated current LRC	: 10 : 6.	).2 A 8	Moment of Duty cycle	f inertia (J)	: 3.53 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	1.5 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 00 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		80 rpm	Design		: B	
Heating constant						
Cooling constant		Object to a Co		Devit 1	01-	
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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 :

Date

12/04/2022

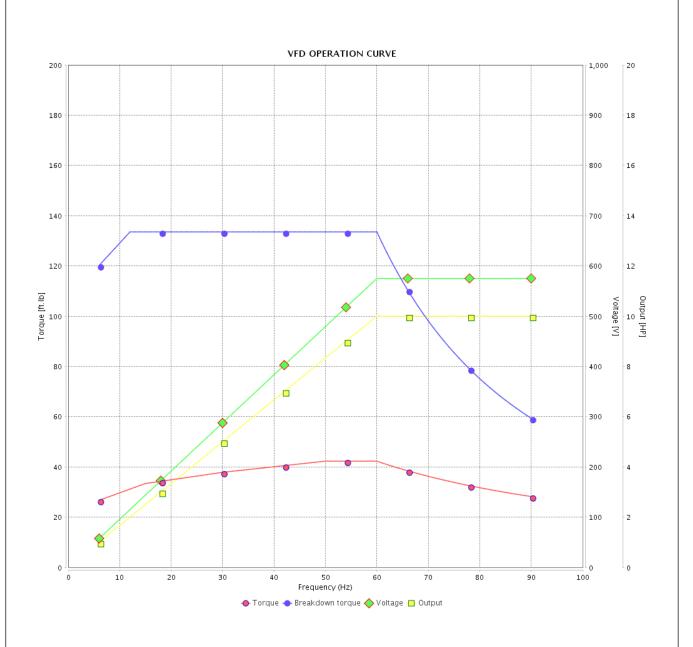
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494125

Catalog #: 01012OT3H256TC-W40

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Performance : 575 V 60 Hz 6P : 10.2 A Rated current Moment of inertia (J) : 3.53 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 44.5 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

