DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14494189 Three-Phase Catalog #: 02012OT3H286T-W40 Frame : 284/6T Locked rotor time : 27s (cold) 15s (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 : 19.4 A Protection degree : IP23 L. R. Amperes : 124 A Cooling method : IC01 - ODP : 6.4x(Code G) LRC Mounting : F-1 No load current : 7.52 A Rotation¹ : Both (CW and CCW) Rated speed : 1177 rpm Noise level² : 59.0 dB(A) Starting method Slip : 1.92 % : Direct On Line Rated torque : 89.2 ft.lb Approx. weight³ : 383 lb Locked rotor torque : 229 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 6.89 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 91.5 91.7 92.4 92.4 Max. traction Power Factor 0.80 0.84 0.45 0.71 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3

Bearing type : 6311 Z C3 6211 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 18 g 11 g

Lubricant amount : 18 g | The 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

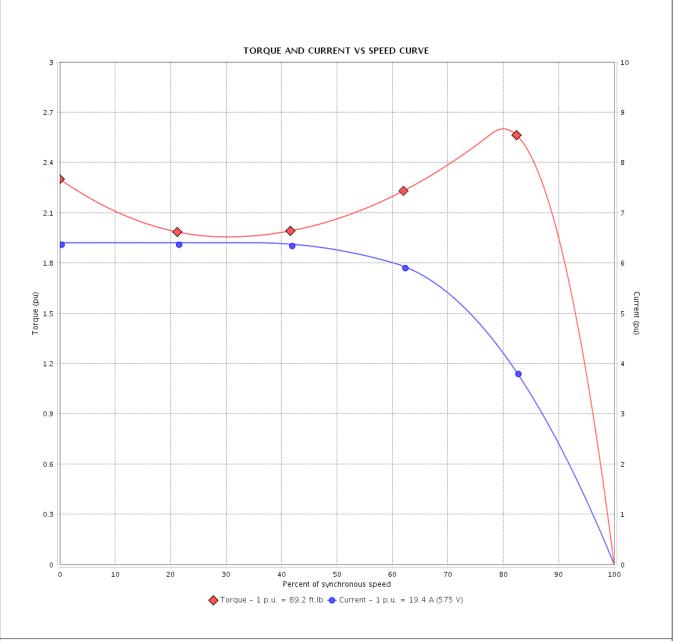


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14494189

Three-Phase

Catalog #: 02012OT3H286T-W40



Performance : 575 V 60 Hz 6P Rated current : 19.4 A Moment of inertia (J) : 6.89 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 89.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1177 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



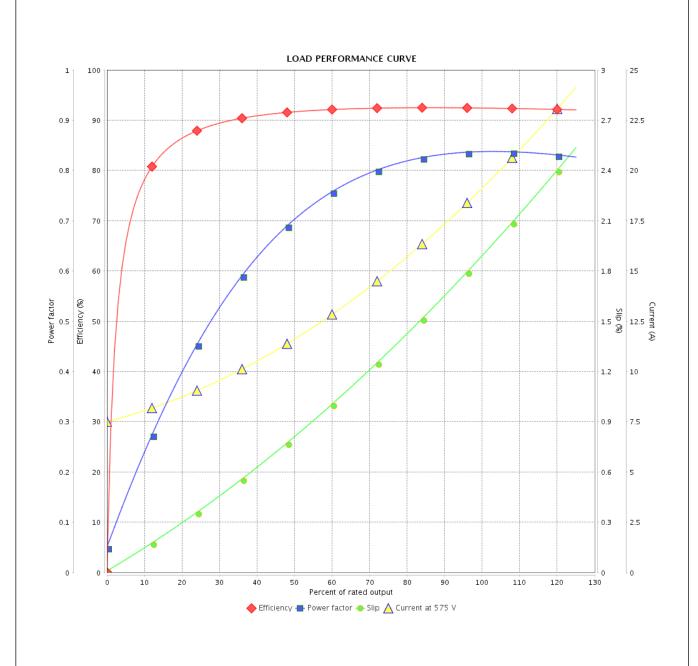
Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 02012OT3H286T-W40

14494189



Performance	: 5	575 V 60 Hz 6P				
Rated current	:1	: 6.4 Duty cyc : 89.2 ft.lb Insulation : 229 % Service		f inertia (J)	: 6.89 sq.ft.lb	
LRC	: 6			;	: Cont.(S1)	
Rated torque	: 8			class	: F	
Locked rotor torqu	e : 2			ctor	: 1.25	
Breakdown torque	: 2			Temperature rise Design		
Rated speed	: 1177 rpm Changes Summary		Design			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



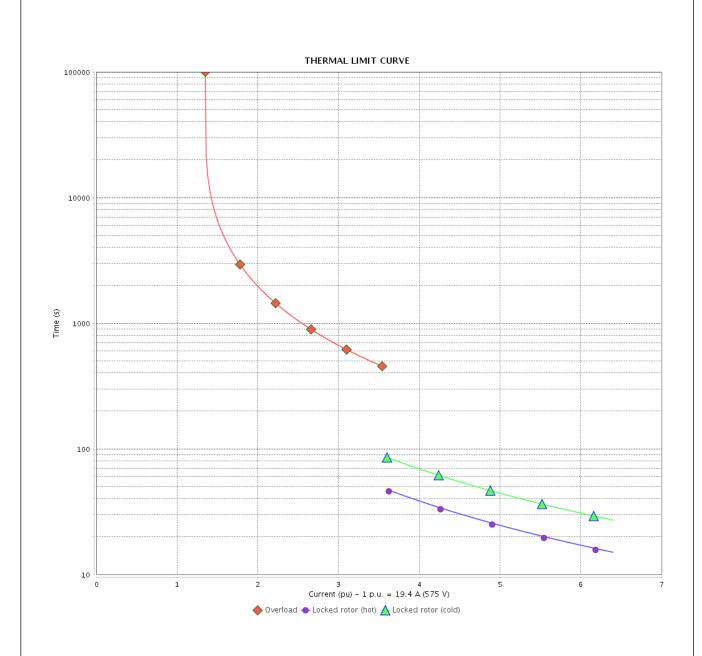
Customer		:				
Product line		: W40 NEMA Premium Efficiency Three-Phase				
				Product code :	14494189	
				Catalog # :	02012OT3H2	86T-W40
Performance		575 V 60 Hz 6P	Moment	of inartia (I)	: 6 90 og ft lb	
		: 19.4 A Moment : 6.4 Duty cyc		of inertia (J)	: 6.89 sq.ft.lb : Cont.(S1)	
Rated torque		89.2 ft.lb	Insulation Service fa		: F : 1.25	
		: 229 % Service fa : 260 % Temperat			: 80 K	
		1177 rpm	Design		: B	
Heating constant						
Cooling constant	<u> </u>					
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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

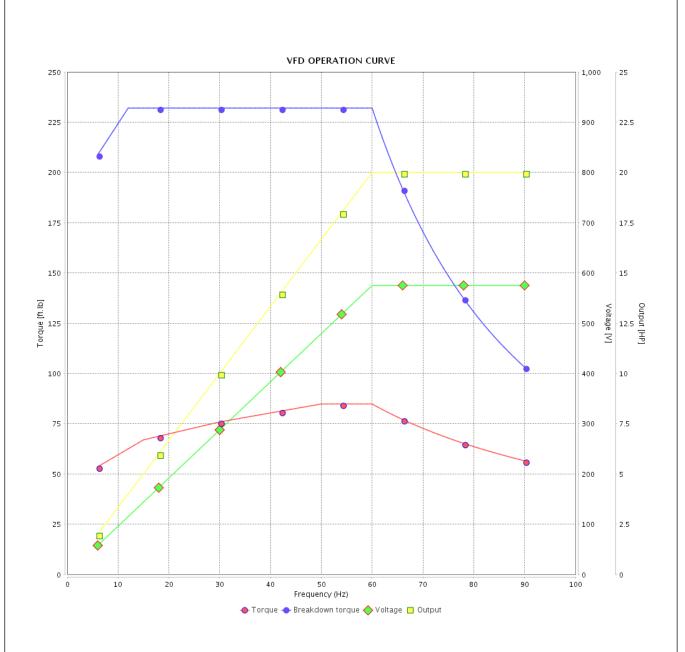
14/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494189

Catalog #: 02012OT3H286T-W40



Performance : 575 V 60 Hz 6P : 19.4 A Rated current Moment of inertia (J) : 6.89 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : 89.2 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1177 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

