DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14494160 Three-Phase Catalog #: 01512OT3H284T-W40 Frame : 284T Locked rotor time : 28s (cold) 16s (hot) Output : 15 HP (11 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 : 14.7 A Protection degree : IP23 L. R. Amperes : 92.7 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 6.24 A Rotation¹ : Both (CW and CCW) Rated speed : 1180 rpm Noise level² : 59.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 66.8 ft.lb Approx. weight³ : 315 lb Locked rotor torque : 260 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.80 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 0.42 0.67 0.77 0.82 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 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



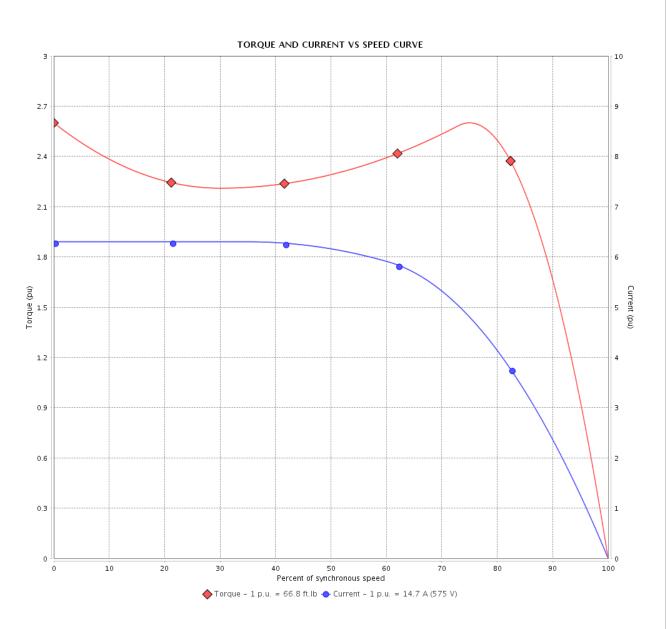
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494160

Catalog #: 01512OT3H284T-W40



Performance : 575 V 60 Hz 6P Rated current : 14.7 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 66.8 ft.lb : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Locked rotor time : 28s (cold) 16s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



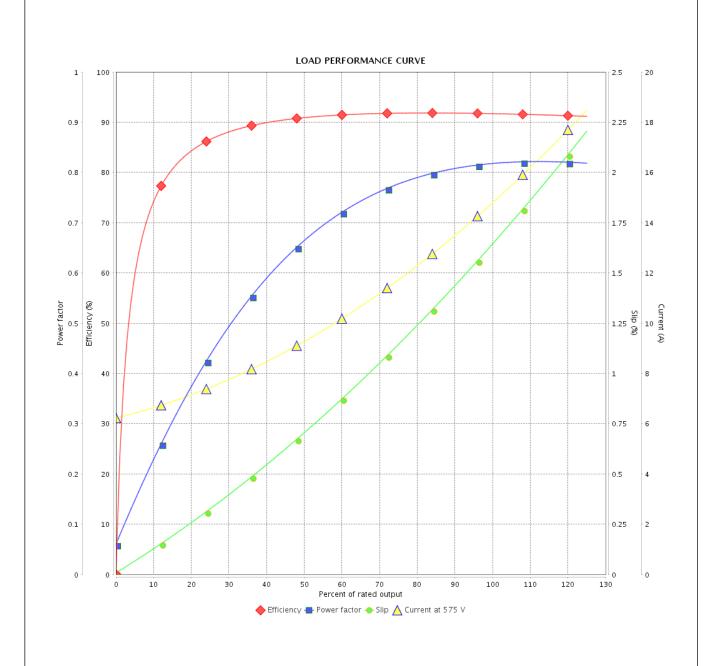
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494160

Catalog #: 01512OT3H284T-W40



Performance	: 5	: 575 V 60 Hz 6P						
Rated current	: 1	: 14.7 A Moment of		f inertia (J)	: 4.80 sq.ft.lb			
LRC		: 6.3		:	: Cont.(S1)			
Rated torque	: 6	: 66.8 ft.lb Insulation : 260 % Service : 260 % Temper : 1180 rpm Design		class	: F			
Locked rotor torqu	ie : 2			ctor	: 1.25			
Breakdown torque	: 2			ıre rise	: 80 K			
Rated speed	: 1				: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



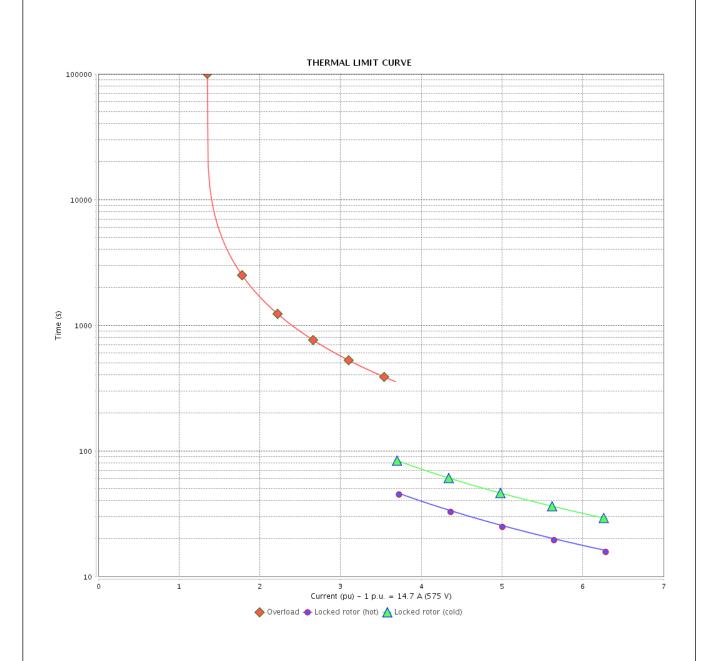
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Dead (C)		- MAO NEMA D			44404400	
Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14494160	
				Catalog # :	01512OT3H2	84T-W40
Performance		575 V 60 Hz 6P	Moment -	finartic (1)	. 4 90 oc # lb	
Rated current LRC	:	14.7 A 6.3	Duty cycle	f inertia (J)	: 4.80 sq.ft.lb : Cont.(S1)	
Rated torque		66.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		260 % Service fa 260 % Temperat			: 1.25 : 80 K	
Rated speed		1180 rpm	Design		: B	
Heating constan	t					
Cooling constan	t					
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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

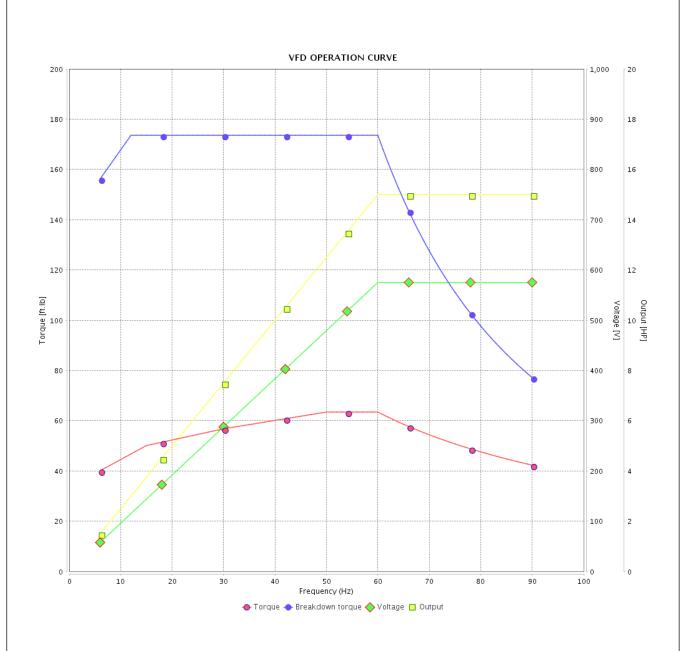
13/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14494160

Catalog #: 01512OT3H284T-W40



Performance : 575 V 60 Hz 6P : 14.7 A Rated current Moment of inertia (J) : 4.80 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 66.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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