DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14495153 Three-Phase Catalog #: 02518OT3V284TC-W40 Frame : 284TC Locked rotor time : 64s (cold) 36s (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 : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 67.8/33.9 A Protection degree : IP23 L. R. Amperes : 427/214 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 25.3/12.7 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 74.2 ft.lb Approx. weight³ : 357 lb Locked rotor torque : 250 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.71 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.8 93.0 93.6 93.6 Max. traction Power Factor 0.84 0.45 0.69 0.80 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 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



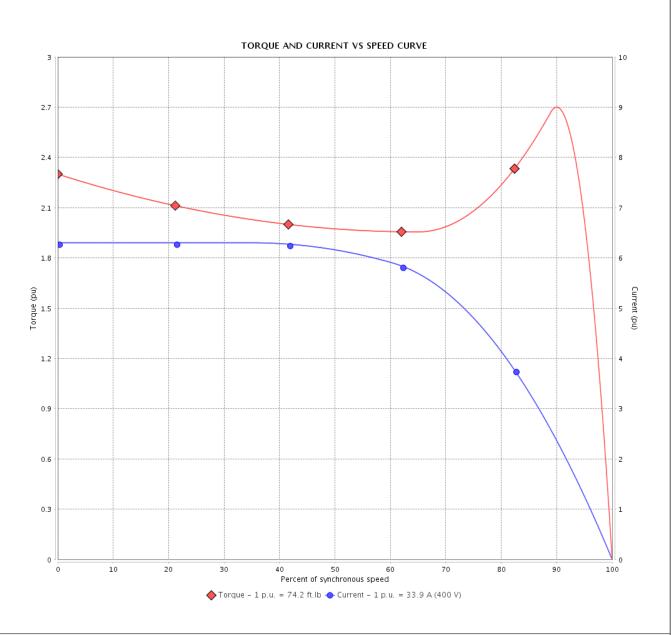
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495153

Catalog #: 02518OT3V284TC-W40



Performance : 200/400 V 60 Hz 4P Rated current : 67.8/33.9 A Moment of inertia (J) : 3.71 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

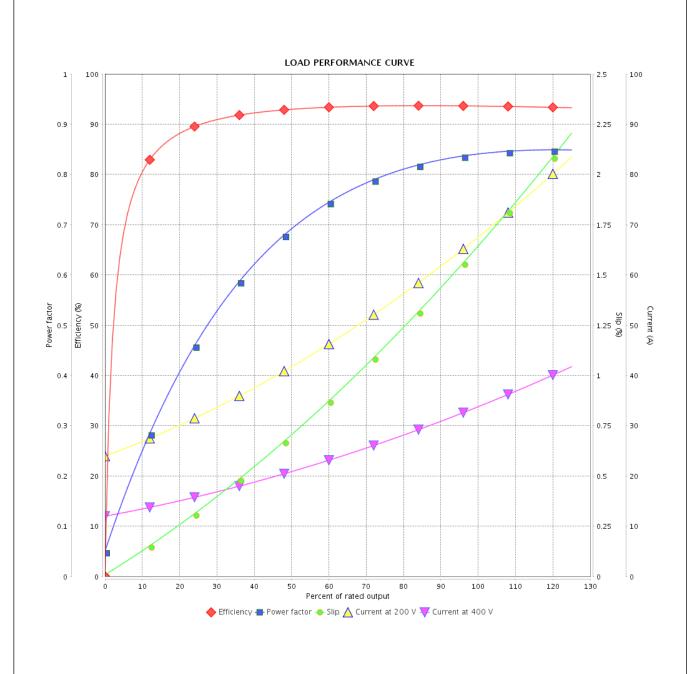


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14495153

Three-Phase

Catalog #: 02518OT3V284TC-W40



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Performance		200/400 V 60 Hz 4P				
Rated current		67.8/33.9 A	Moment of	Moment of inertia (J)		
Rated torque		6.3 Duty cycle 74.2 ft.lb Insulation class 250 % Service factor)	: Cont.(S1)	
				class	: F	
				ctor	: 1.25	
Breakdown torque	:	: 270 % Temperature rise Design		ıre rise	: 80 K	
Rated speed	:				: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



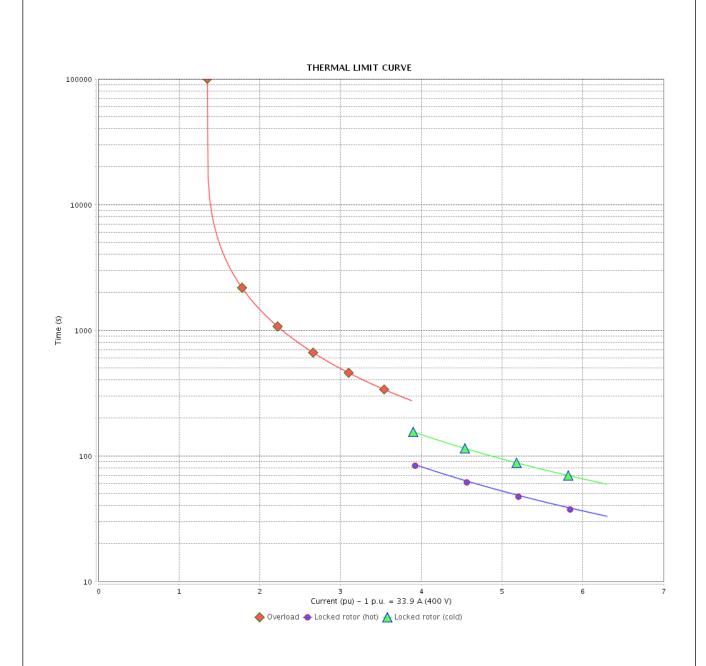
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Product line		W40 NEMA Premium Efficie hree-Phase	ency I	Product code :	14495153	
	11	illee-i ilase	(Catalog # :	02518OT3V28	34TC-W40
		00/400 / 60 /				
Performance		00/400 V 60 Hz 4P 7.8/33.9 A	Moment	finartia (I)	· 2 71 00 # lb	
Rated current LRC	: 6.	.3	Duty cycle	f inertia (J)	: 3.71 sq.ft.lb : Cont.(S1)	
Rated torque		4.2 ft.lb 50 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		70 %	Temperatu		: 1.25 : 80 K	
Rated speed		765 rpm	Design		: B	
Heating constan						
Cooling constant	t	Ohanana O	T	David 1	Ob. 1	
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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 :

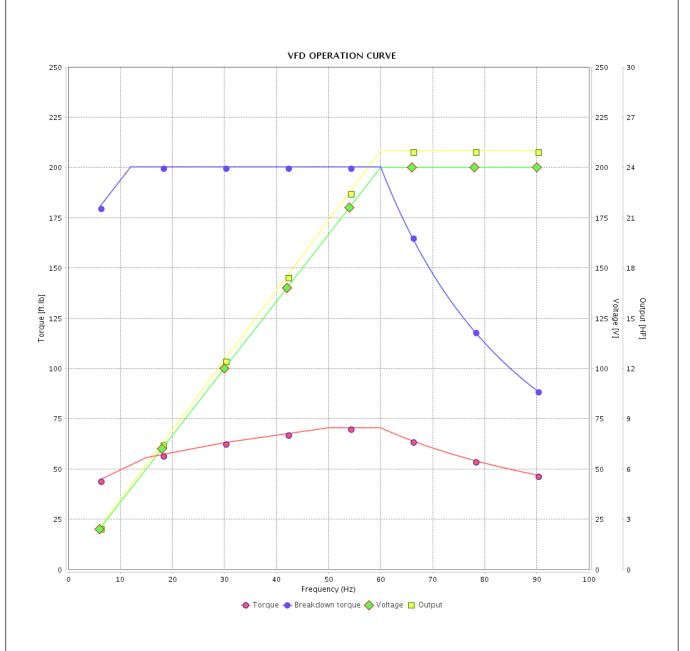
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14495153

Catalog #: 02518OT3V284TC-W40

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Performance	: 200/400 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 67.8/33.9 A : 6.3 : 74.2 ft.lb : 250 % : 270 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.71 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
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Performed by							
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13/04/2022

Date

