DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14497311 Three-Phase Catalog #: 05018OT3H326TC-W40 Frame : 324/6TC Locked rotor time : 19s (cold) 11s (hot) Output : 50 HP (37 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 : 46.8 A Protection degree : IP23 L. R. Amperes : 295 A Cooling method : IC01 - ODP LRC : 6.3x(Code G) Mounting : F-1 No load current : 18.6 A Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight³ : 525 lb Locked rotor torque : 240 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 7.08 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 94.0 Efficiency (%) 94.1 94.5 94.5 Max. traction Power Factor 0.44 0.70 0.80 0.84 Max. compression Non drive end Drive end Bearing type 6312 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 21 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



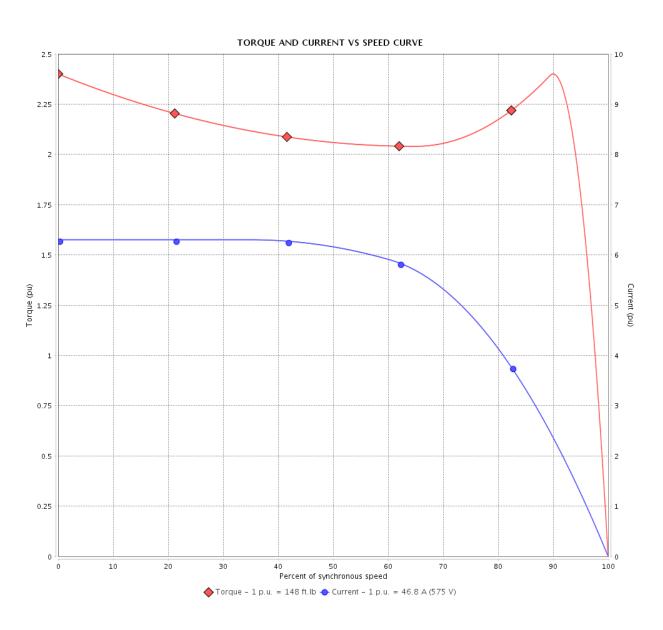
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497311

Catalog #: 05018OT3H326TC-W40



Performance	: 575 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque	: 46.8 A : 6.3 : 148 ft.lb : 240 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25
Breakdown torque Rated speed	: 240 % : 1775 rpm	Temperature rise Design	: 80 K : B
Locked rotor time	· 19s (cold) 11s (hot)		

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

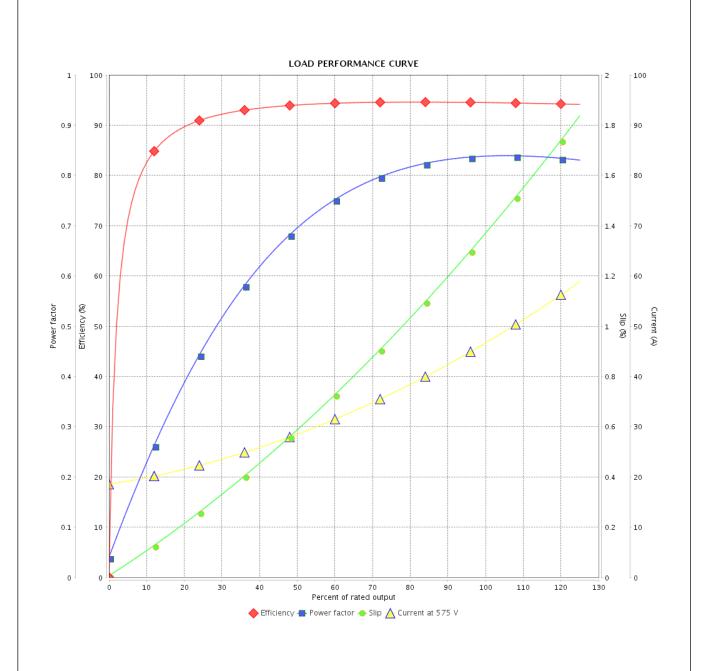


Customer

Product line : W40 NEMA Premium Efficiency Product code: 14497311

Three-Phase

Catalog #: 05018OT3H326TC-W40



Performance	: 5	: 575 V 60 Hz 4P					
Rated current	: 4	: 46.8 A Moment of		f inertia (J)	: 7.08 sq.ft.lb		
LRC Rated torque		Duty cycle 148 ft.lb Insulation)	: Cont.(S1)		
				class	: F		
Locked rotor torque		240 %	Service fa	Service factor			
Breakdown torque	: 2	: 240 % Temperature rise Design		ıre rise	: 80 K		
Rated speed	: 1			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



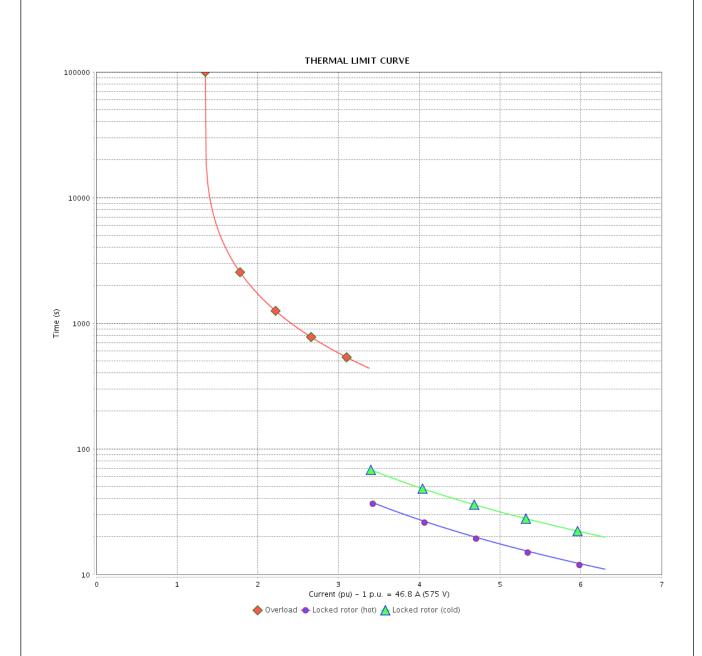
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Product line	. 1	N40 NEMA Premium Efficio	onev I	Product code :	14497311	
i Toduct IIIIe		nree-Phase				
			(Catalog # :	05018OT3H3	26TC-W40
Performance		75 V 60 Hz 4P	Mamanta	Finartia (I)	. 7.00 og ft lb	
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 7.08 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		18 ft.lb 10 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	e : 24	10 %	Temperatu		: 80 K	
Rated speed	: 17	775 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summers		Performed	Checked	Date
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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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Checked by

Date

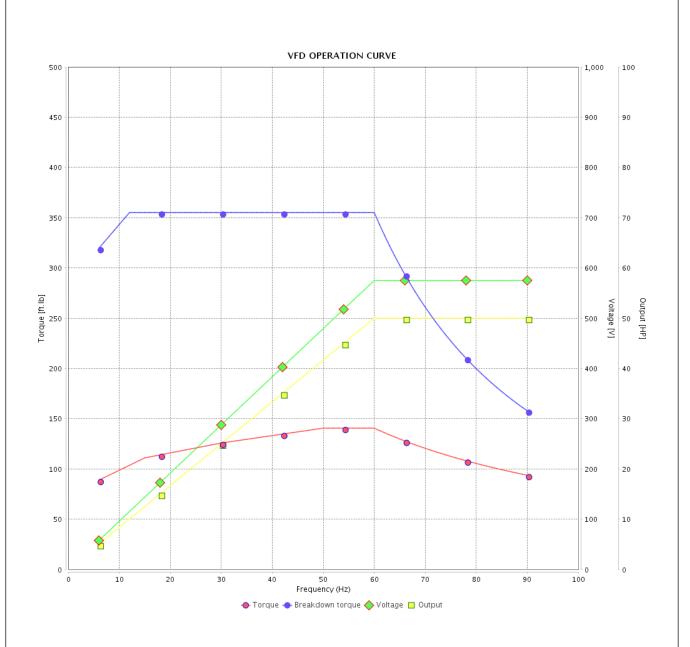
12/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497311

Catalog #: 05018OT3H326TC-W40



Performance : 575 V 60 Hz 4P Rated current : 46.8 A Moment of inertia (J) : 7.08 sq.ft.lb **LRC** Duty cycle : 6.3 : Cont.(S1) : 148 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

