DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14504117 Three-Phase Catalog #: 05018OT3H326T-W40G Frame : 324/6T 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 : 503 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 94.5 Efficiency (%) 94.1 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



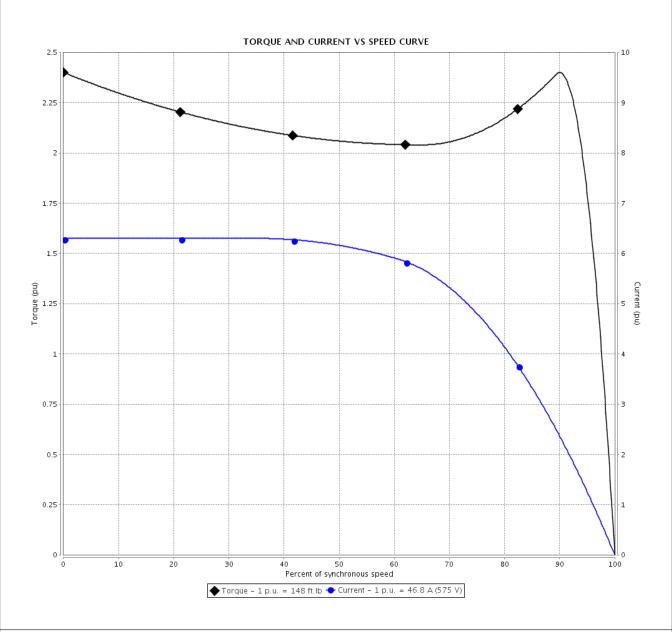
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14504117

Catalog #: 05018OT3H326T-W40G



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

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

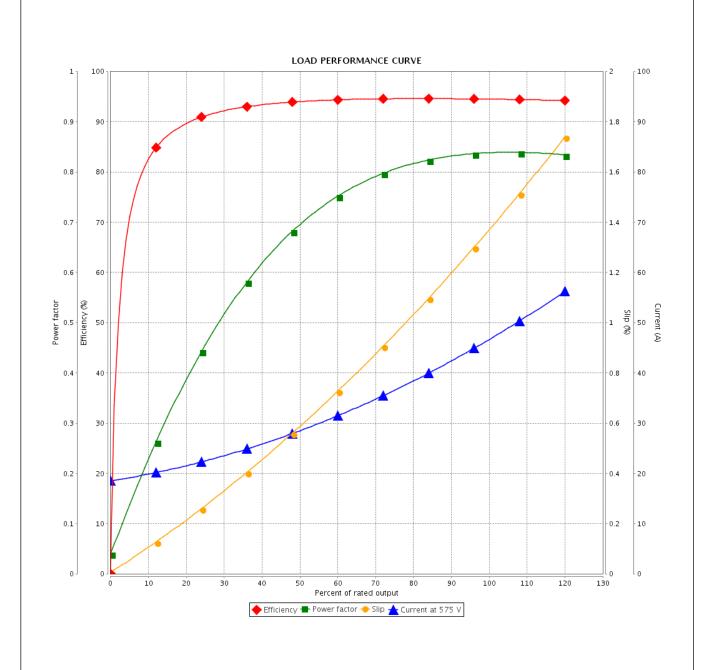
Product line : W40 NEMA Premium Efficiency Prod

Three-Phase

Product code: 14504117

Catalog #: 05018OT3H326T-W40G

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

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



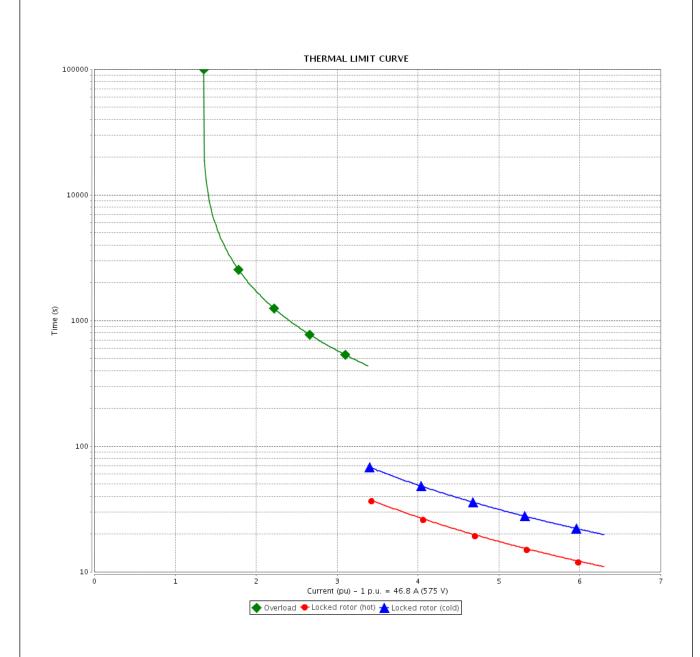
Customer	:					
Product line	: \	N40 NEMA Premium Effici	ency I	Product code :	14504117	
		nree-Phase		Catalog # :	05018OT3H3	26T-W/40C
Dorformana	. =-	75 V 60 H - 4D				
Performance Rated current LRC Rated torque Locked rotor torqu	: 46 : 6. : 1 ² e : 2 ²	48 ft.lb 40 %	Moment of Duty cycle Insulation Service fac	class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed	: 24	40 % 775 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant Cooling constant						
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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 :

Checked by

Date

10/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

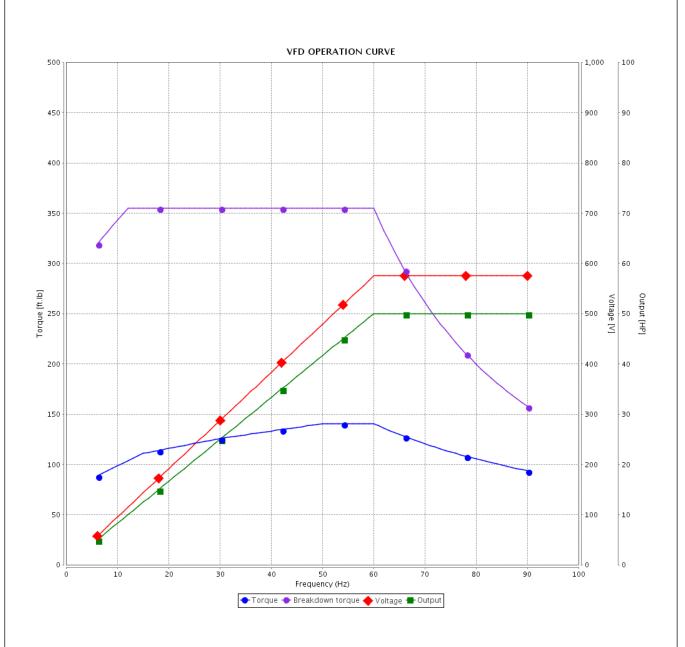
Product code: 14504117

Catalog #: 05018OT3H326T-W40G

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Revision



Performance	: 5	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	46.8 A Moment of inertia (J) 6.3 Duty cycle 148 ft.lb Insulation class 240 % Service factor 240 % Temperature rise 1775 rpm Design		class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

