DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14504150 Three-Phase Catalog #: 05018OT3V326T-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 : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 135/67.3 A Protection degree : IP23 L. R. Amperes : 848/424 A Cooling method : IC01 - ODP : 6.3x(Code G) LRC Mounting : F-1 No load current : 53.4/26.7 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 : 521 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

Mobil Polyrex EM

20000 h

21 g

Notes

Lubrication interval

Lubricant amount

Lubricant type

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.

20000 h

11 g

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



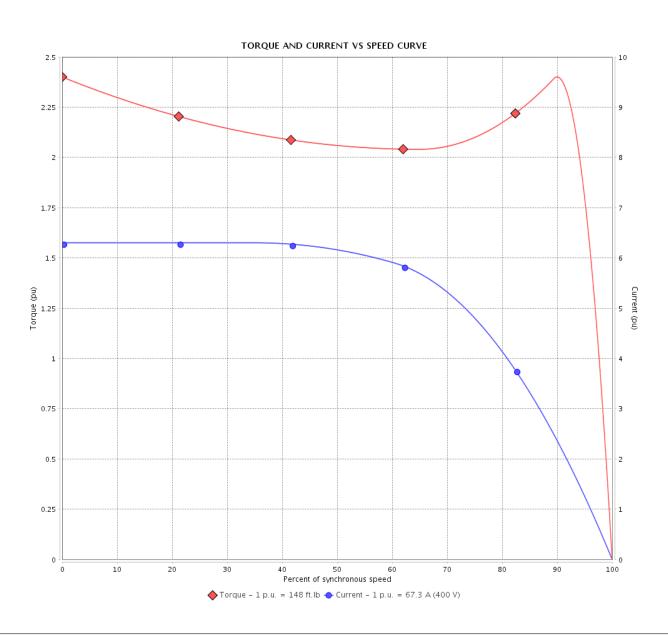
Customer :

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code: 14504150

Catalog #: 05018OT3V326T-W40G



: 200/400 V 60 Hz 4P Performance Rated current : 135/67.3 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

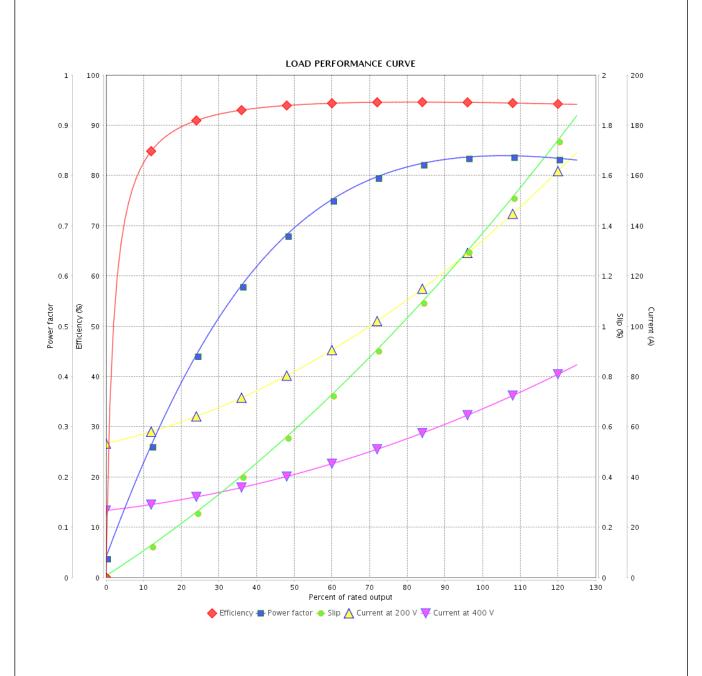


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14504150

Three-Phase

Catalog #: 05018OT3V326T-W40G



Performance		200/400 V 60 Hz 4P				
Rated current		135/67.3 A	Moment of inertia (J)		: 7.08 sq.ft.lb	
LRC		3.3	Duty cycle		: Cont.(S1)	
Rated torque		148 ft.lb	Insulation class		: F	
Locked rotor torqu	ue : 2	240 %	Service factor		: 1.25	
Breakdown torque		240 %	Temperati	Temperature rise		
Rated speed	: 1	1775 rpm Design			: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



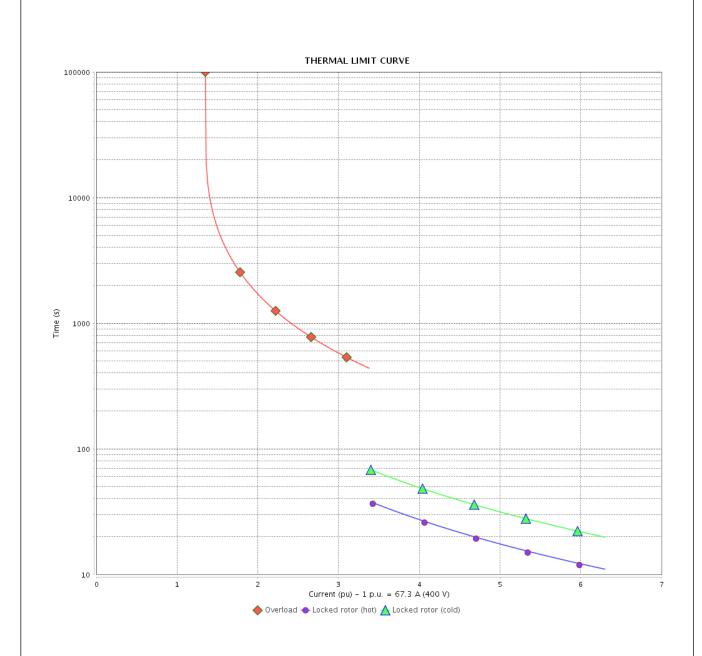
Customer		:				
Product line		: W40 NEMA Premium Efficio	anov.	Product code :	14504150	
r roduct line		Three-Phase	ысу	Floudel code .	14304130	
				Catalog # :	05018OT3V3	26T-W40G
Performance		200/400 V 60 Hz 4P				
Rated current LRC		135/67.3 A 6.3	Moment o	of inertia (J)	: 7.08 sq.ft.lb	
Rated torque		6.3 148 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	240 %	Service fa	ctor	: 1.25	
Breakdown torqu		240 %	Temperati	ure rise	: 80 K	
Rated speed		1775 rpm	Design		: B	
Heating constant						
Cooling constant	•	Change Course		Dout	Obl !	Data
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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

12/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

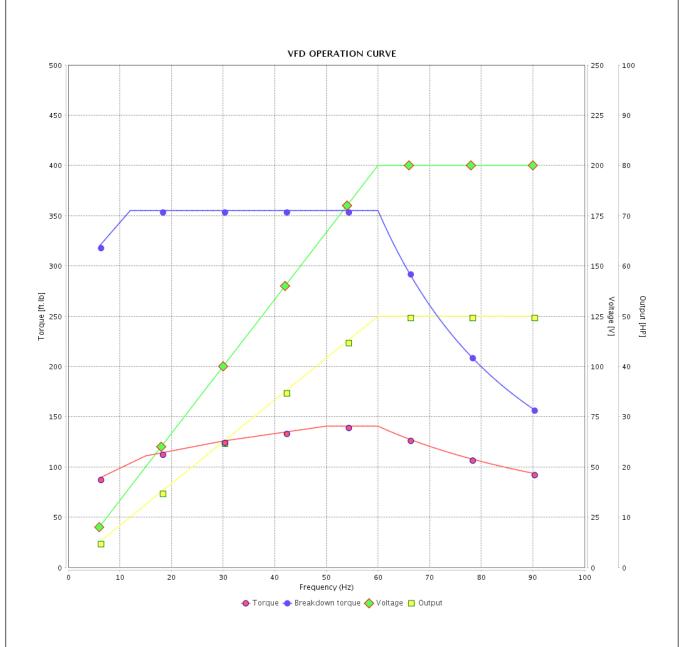
Product code: 14504150

Catalog #: 05018OT3V326T-W40G

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Revision



Performance	: 2	00/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	35/67.3 A .3 48 ft.lb 40 % 40 % 775 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Performed by						

