DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14497313 Three-Phase Catalog #: 05018OT3H326TS-W40 Frame : 324/6TS 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 : 507 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



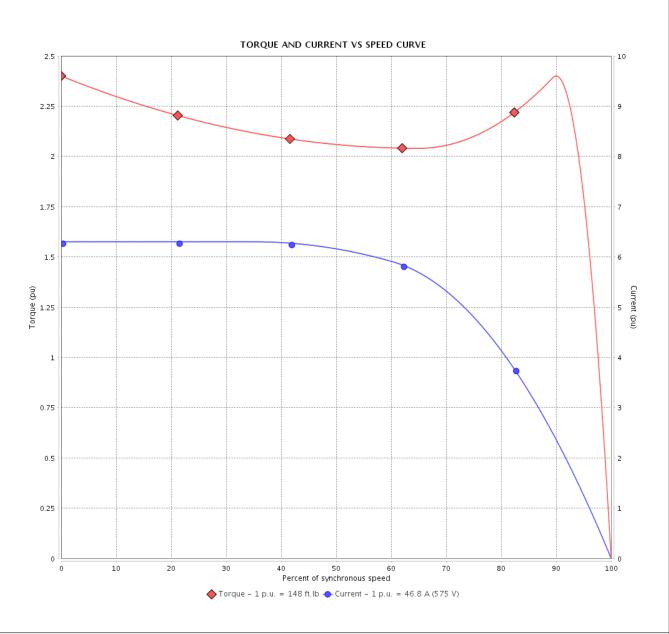
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14497313

Catalog #: 05018OT3H326TS-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
Looked roter time	: 10a (aald) 11a (bat)		

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

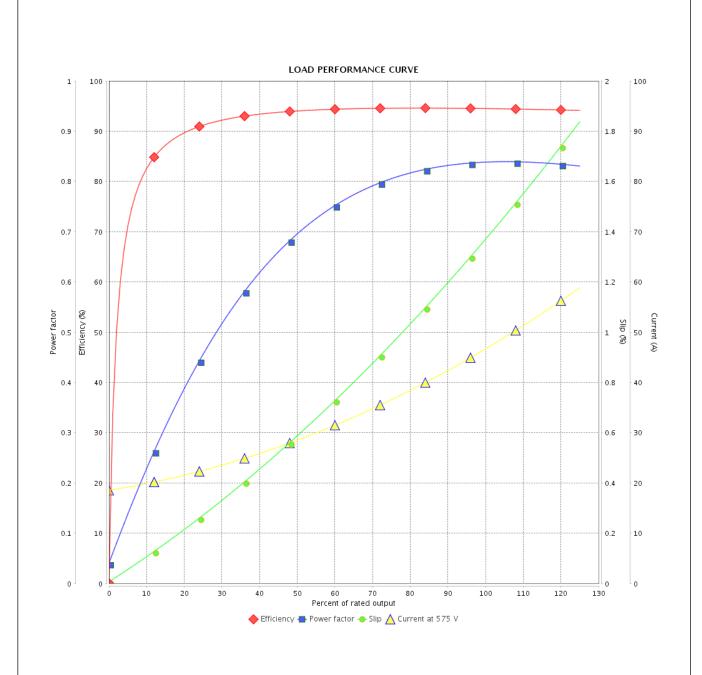


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14497313

Three-Phase

Catalog #: 05018OT3H326TS-W40



Performance	: 5	575 V 60 Hz 4P				
Rated current	: 4	6.8 A Moment of inertia (J)		: 7.08 sq.ft.lb		
LRC	: 6	3.3	Duty cycle		: Cont.(S1)	
Rated torque	: 1	148 ft.lb	Insulation	class	:F	
Locked rotor torqu	ue : 2	240 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 2	240 %	Temperati	Temperature rise		
Rated speed	: 1775 rpm		Design	Design		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



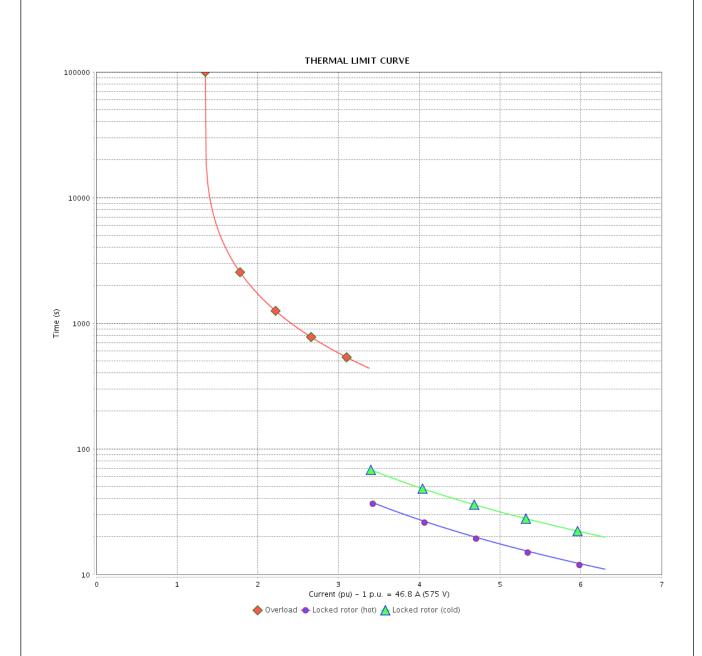
Customer		:				
Product line		: W40 NEMA Premium Efficiency		Product code :	14497313	
Floudcelline		Three-Phase	•		14497313	
				Catalog # :	05018OT3H3	26TS-W40
Performance		575 V 60 Hz 4P				
LRC Rated torque Locked rotor torque Breakdown torque		: 46.8 A Moment of Duty cycl : 6.3 Duty cycl : 148 ft.lb Insulation : 240 % Service fa : 240 % Temperat : 1775 rpm Design		class ctor	: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	 t					
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

12/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

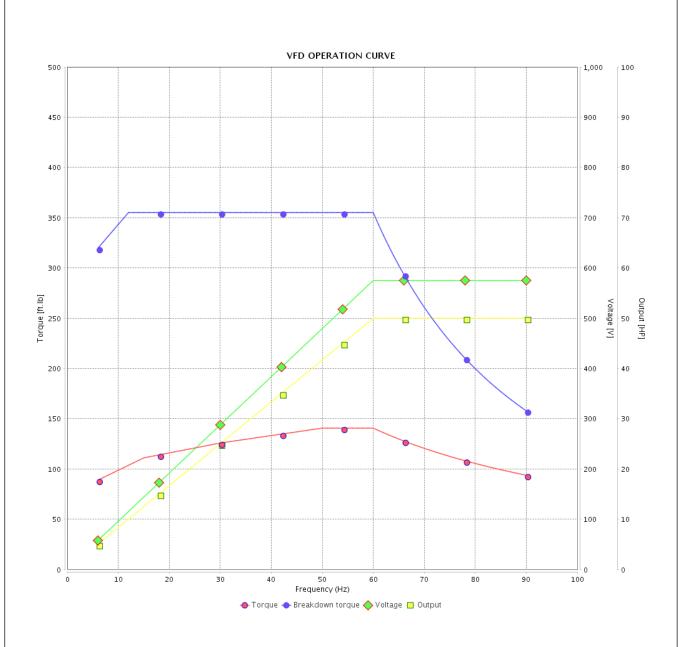
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Revision



Performance		: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2	46.8 A 6.3 148 ft.lb 240 % 240 % 1775 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.08 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev. Changes Summary			Performed	Checked	Date	
Performed by					·	

