DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14496914 Three-Phase Catalog #: 04018OT3H324TS-W40 Frame : 324TS Locked rotor time : 23s (cold) 13s (hot) Output : 40 HP (30 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 : 38.1 A Protection degree : IP23 L. R. Amperes : 236 A Cooling method : IC01 - ODP LRC : 6.2x(Code G) Mounting : F-1 No load current : 14.8 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 : 118 ft.lb Approx. weight³ : 548 lb Locked rotor torque : 200 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.69 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.5 Efficiency (%) 93.6 94.1 94.1 Max. traction Power Factor 0.44 0.80 0.84 0.70 Max. compression Non drive end Drive end Bearing type 6312 Z C3 6211 Z C3

Bearing type : 6312 Z C3 6211 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 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



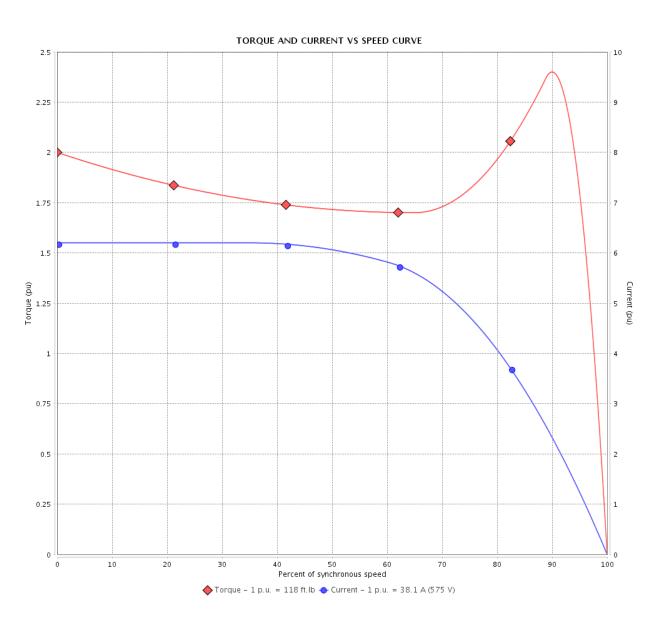
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496914

Catalog #: 04018OT3H324TS-W40



Performance : 575 V 60 Hz 4P Rated current : 38.1 A Moment of inertia (J) : 5.69 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 118 ft.lb : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

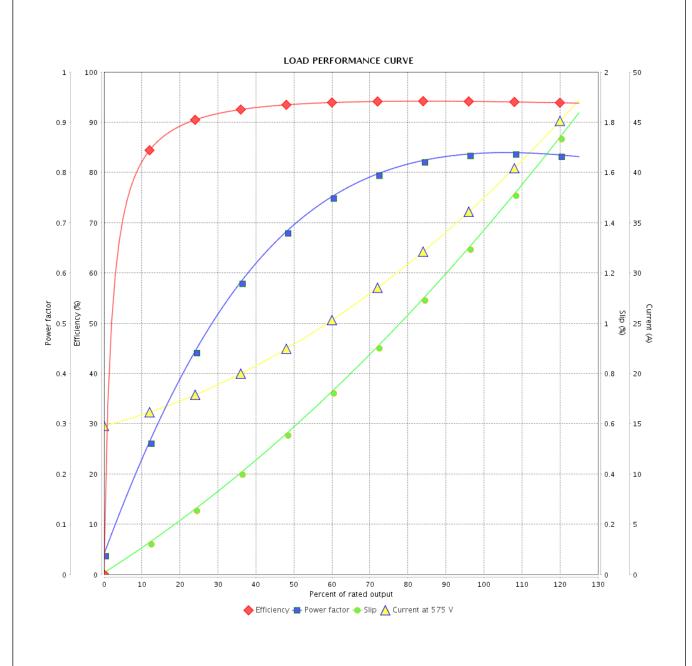


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14496914

Three-Phase

Catalog #: 04018OT3H324TS-W40



Performance	: 5	575 V 60 Hz 4P				
Rated current	: 3	8.1 A Moment of in		inertia (J) : 5.69 sq.ft.lb		
LRC		3.2	Duty cycle		: Cont.(S1)	
Rated torque		18 ft.lb	Insulation class		:F	
Locked rotor torque		200 %	Service factor		: 1.25	
Breakdown torque	: 2	: 240 % Tempera		ıre rise	: 80 K	
Rated speed	: 1	1775 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



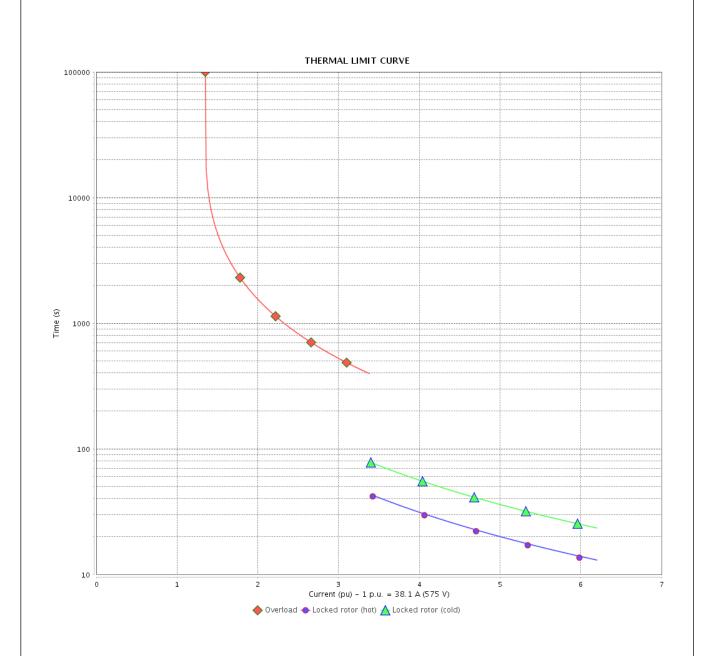
Customer	:					
Product line		N40 NEMA Premium Efficie	ency I	Product code :	14496914	
	Tł	nree-Phase	(Catalog # :	04018OT3H3	24TS-W40
Performance	: 57	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 6. : 11 ue : 20 ie : 2 ²	18 ft.lb 00 % 40 %	Moment of Duty cycle Insulation Service fac Temperatu	class	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed	: 17	775 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summers	T	Performed	Chaakad	Doto
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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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Customer :

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Date

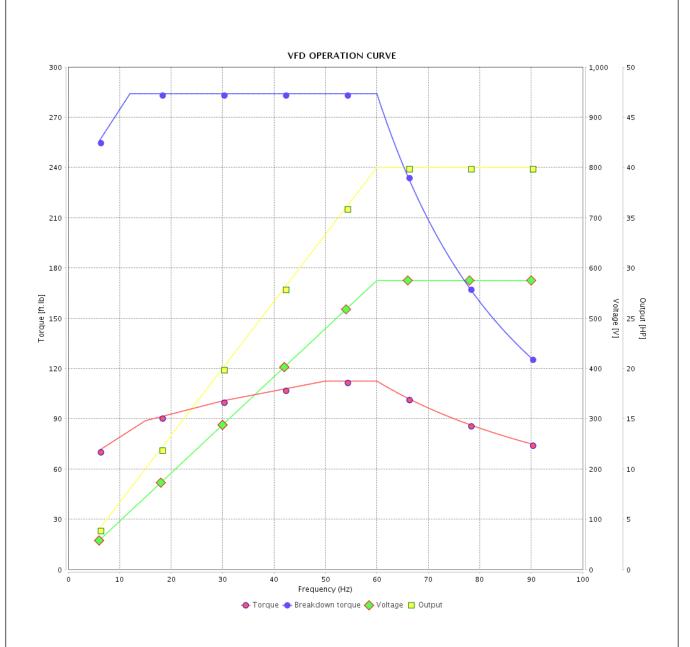
12/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496914

Catalog #: 04018OT3H324TS-W40



Performance : 575 V 60 Hz 4P : 38.1 A Rated current Moment of inertia (J) : 5.69 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 118 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % 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

