### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14496820 Three-Phase Catalog #: 04018OT3H324T-W40 Frame : 324T 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 Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1775 rpm Noise level<sup>2</sup> : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 118 ft.lb Approx. weight<sup>3</sup> : 447 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 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h

Mobil Polyrex EM

21 g

Notes

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.

11 g

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



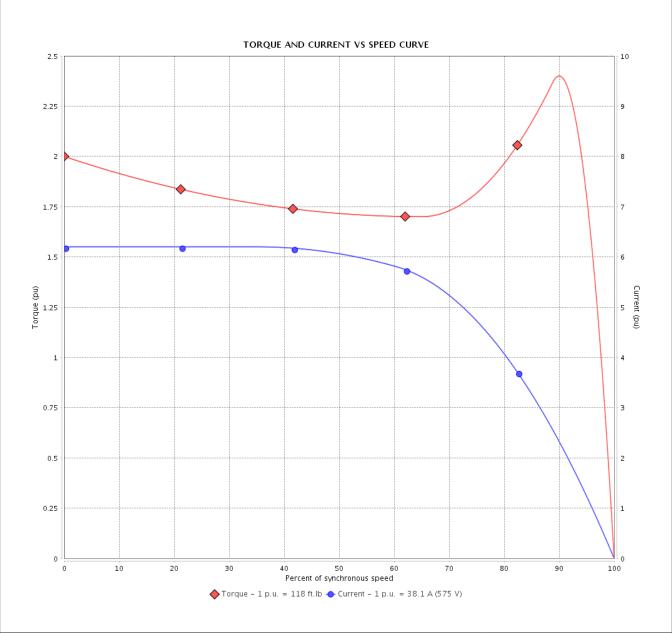
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496820

Catalog #: 04018OT3H324T-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

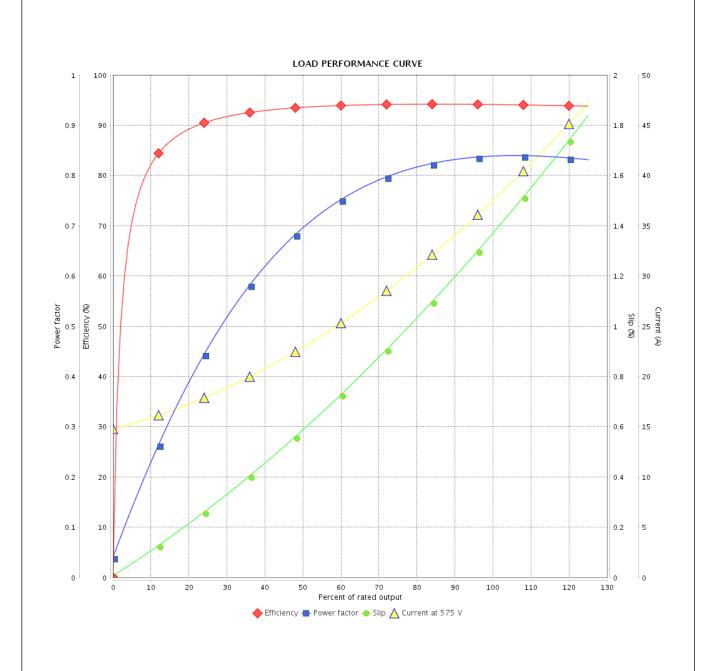


Customer

Product line : W40 NEMA Premium Efficiency

Product code: 14496820

Catalog #: 04018OT3H324T-W40



Performance	: 5	75 V 60 Hz 4P				
Rated current	: 3	: 38.1 A Moment of		f inertia (J)	: 5.69 sq.ft.lb	
=: ···		: 6.2 Duty cyc		)	: Cont.(S1)	
				class	: F	
Locked rotor torc	jue : 2	00 %	Service fa	Service factor		
Breakdown torqu	ie : 2			ıre rise	: 80 K	
Rated speed	: 1			Design		
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



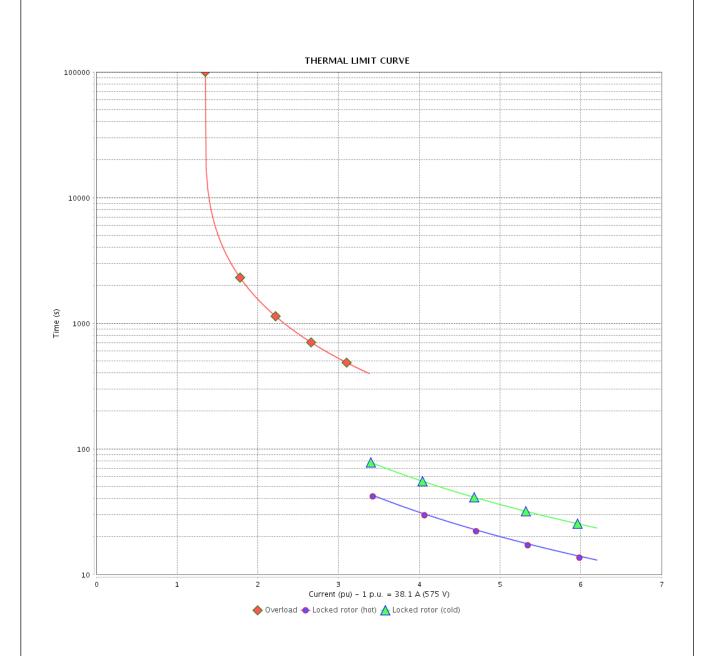
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Product line	: \ TI	W40 NEMA Premium Efficie hree-Phase	ency l	Product code :	14496820	
		inco i naco	(	Catalog # :	04018OT3H3	24T-W40
Performance		75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 11 e : 20 : 24	8.1 A 2 18 ft.lb 00 % 40 % 775 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
		r				
Heating constant						
Cooling constant Rev.		Changes Summary	I	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



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Date

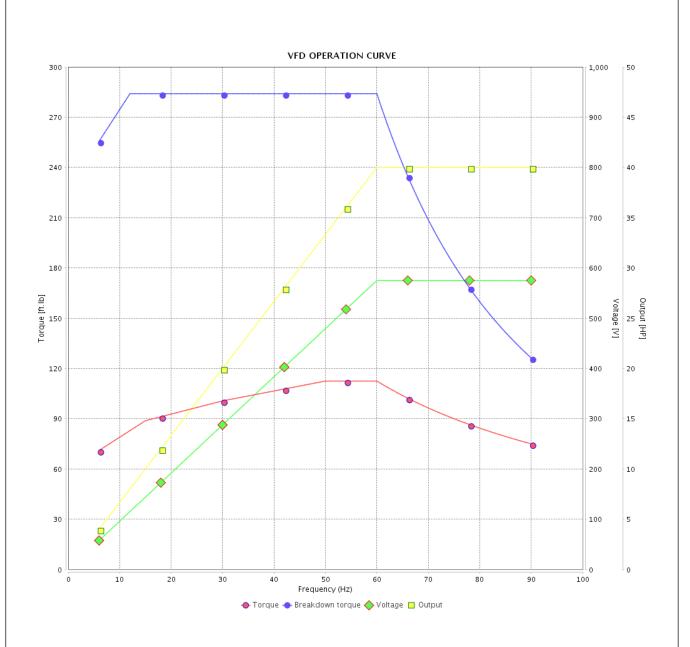
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496820

Catalog #: 04018OT3H324T-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

