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 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 : 441 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



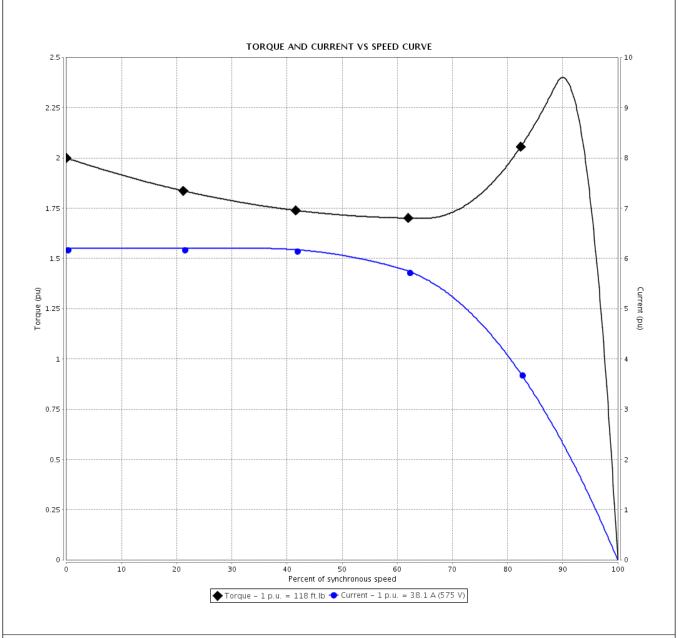
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496820

Catalog #: 04018OT3H324T-W40



: 575 V 60 Hz 4P Performance 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

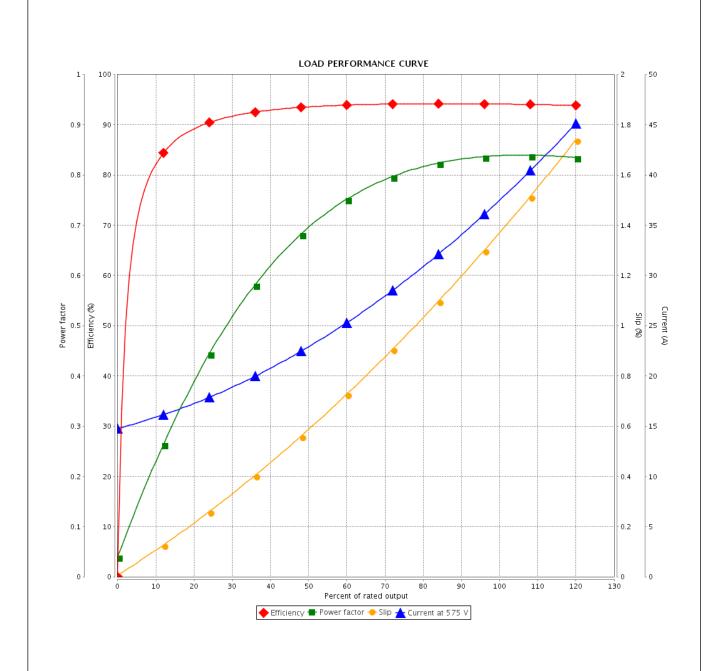


Customer

Product line : W40 NEMA Premium Efficiency Product code:

14496820

Catalog #: 04018OT3H324T-W40



Performance	: 5	75 V 60 Hz 4P				
Rated current	: 38	8.1 A	Moment o	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
LRC	: 6.	.2	Duty cycle			
Rated torque	: 1	18 ft.lb	Insulation			
Locked rotor torq	ue : 20	00 %	Service fa			
Breakdown torqu	e : 24	40 %	Temperati			
Rated speed	: 17	775 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



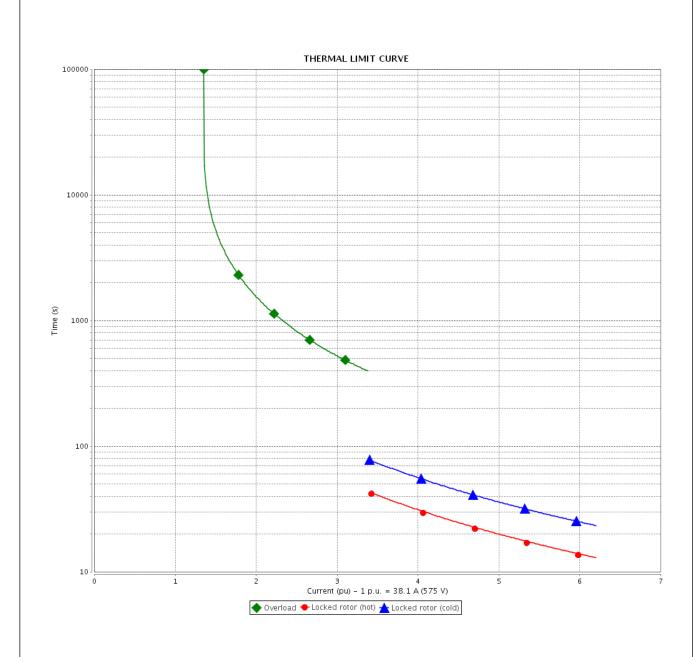
Customer		:					
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Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14496820		
				Catalog # :	04018OT3H3	24T-W40	
Performance		575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor tord	: ; que :	38.1 A 6.2 118 ft.lb 200 %	Duty cycle Insulation Service fa	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25		
Breakdown torqu Rated speed		240 % 1775 rpm	Temperati Design	ure rise	: 80 K : B		
Heating constant							
Cooling constant Rev.		Changes Summers		Performed	Checked	Date	
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Performed by Checked by					Page	Revision	
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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



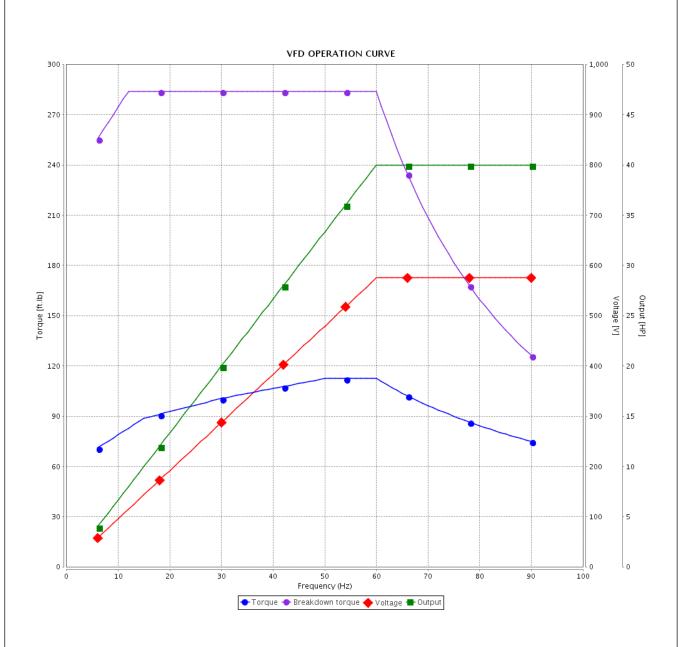
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496820

Catalog #: 04018OT3H324T-W40



Performance		: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	38.1 A 5.2 118 ft.lb 200 % 240 % 1775 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Nated speed	. '	ти з триг	Design		. Б	
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