DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14496910 Three-Phase Catalog #: 04018OT3H324TC-W40 Frame : 324TC 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 : 457 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 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



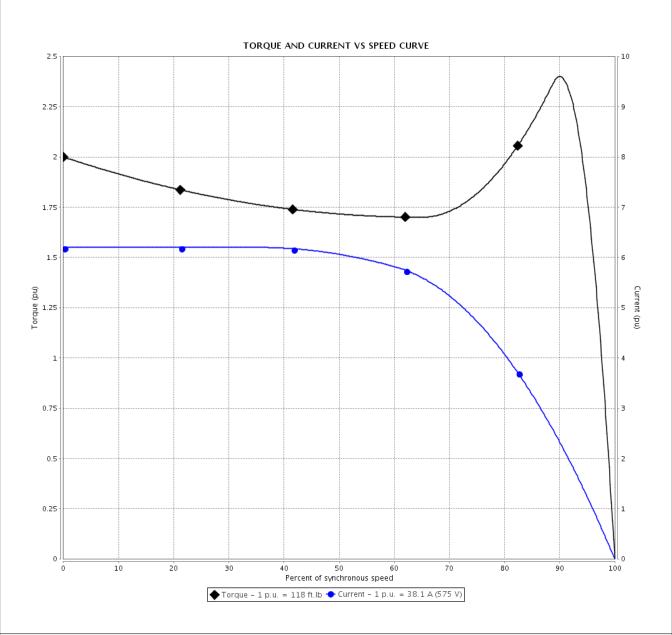
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496910

Catalog #: 04018OT3H324TC-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)

Rev.	Changes Summary Perfo			Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



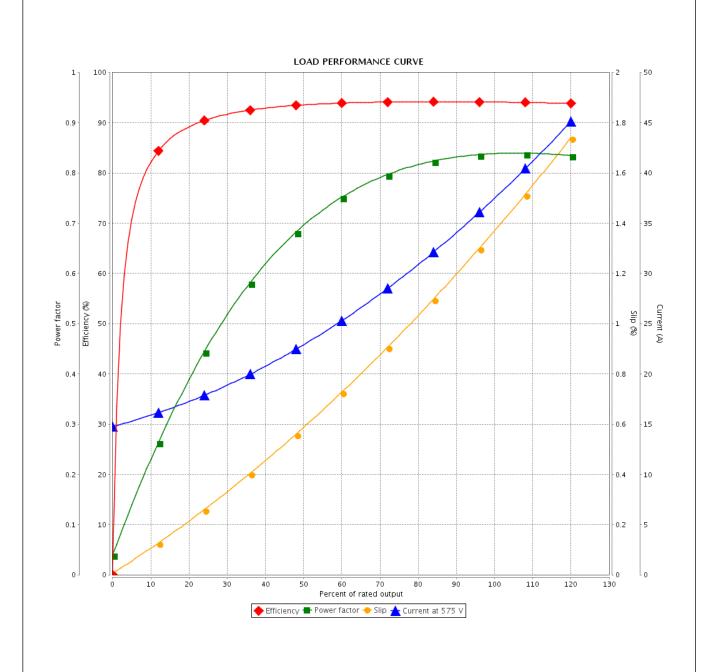
Customer

Product line : W40 NEMA Premium Efficiency Produ

Three-Phase

Product code: 14496910

Catalog #: 04018OT3H324TC-W40



					-1-			
Performance		: 575 V 60 Hz 4P						
Rated current		3.1 A	Moment of inertia (J)		: 5.69 sq.ft.lb			
LRC : 6.		2	Duty cycle		: Cont.(S1)			
Rated torque		8 ft.lb	Insulation class		:F			
		00 %	Service factor		: 1.25			
Breakdown torque	: 24	10 %	Temperature rise		: 80 K			
Rated speed	: 17	775 rpm Design		: B				
Rev.	,	Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	11/04/2020				3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



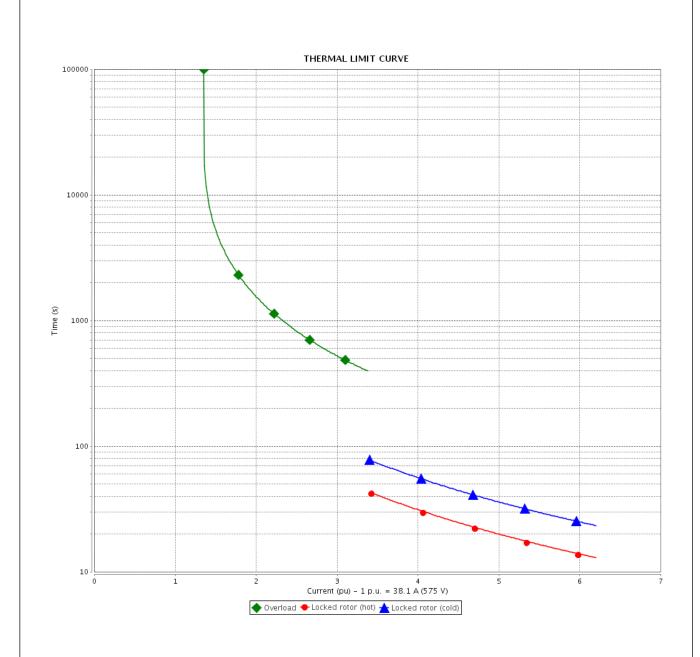
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Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14496910		
				Catalog # :	04018OT3H3	324TC-W40	
Performance Rated current LRC Rated torque Locked rotor torqu Bread own d	: : : : : : : :	575 V 60 Hz 4P 38.1 A 6.2 118 ft.lb 200 % 240 %	Duty cycle Insulation Service fa Temperati	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K		
Rated speed	:	1775 rpm	Design		: B		
Heating constant							
Cooling constant	•			,	1		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	11/04/2020				4/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

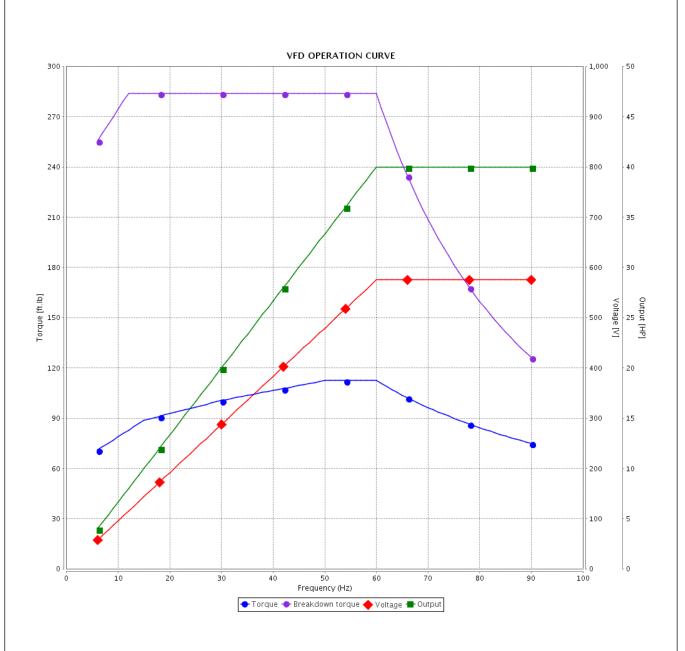
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14496910

Catalog #: 04018OT3H324TC-W40

6/6



: 575 V 60 Hz 4P				
: 38.1 A : 6.2 : 118 ft.lb : 200 % : 240 % : 1775 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Changes Summary		Performed	Checked	Date
			Page	Revision
	: 38.1 A : 6.2 : 118 ft.lb : 200 % : 240 % : 1775 rpm	: 38.1 A Moment of ine : 6.2 Duty cycle : 118 ft.lb Insulation clas : 200 % Service factor : 240 % Temperature : 1775 rpm Design	: 38.1 A : 6.2 : 118 ft.lb : 200 % : 240 % : 1775 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 38.1 A Moment of inertia (J) : 5.69 sq.ft.lb : 6.2 Duty cycle : Cont.(S1) : 118 ft.lb Insulation class : F : 200 % Service factor : 1.25 : 240 % Temperature rise : 80 K : 1775 rpm Design : B Changes Summary Performed Checked

11/04/2020

Date