DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14503953 Three-Phase Catalog #: 04018OT3H324T-W40G 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 : 506 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



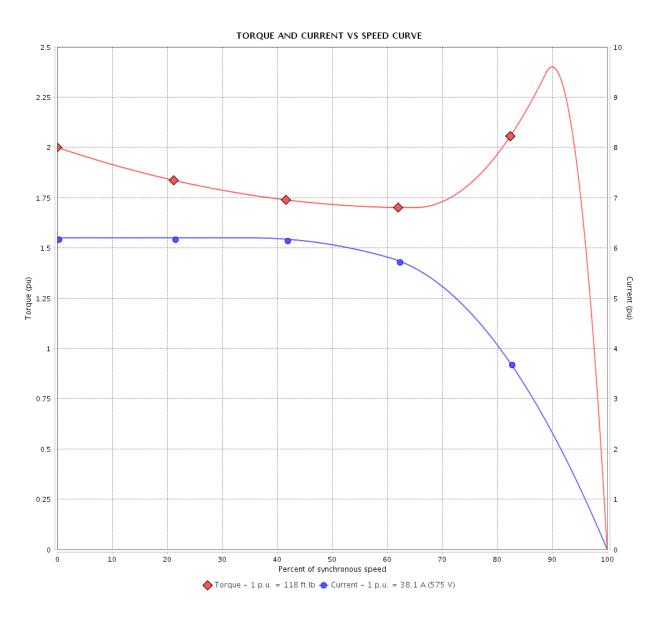
Customer :

Product line : W40 NEMA Premium Efficiency Product code

Three-Phase

Product code: 14503953

Catalog #: 04018OT3H324T-W40G



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

Checked by

Date

12/04/2022

Product line : W40 NEMA Premium Efficiency Product code : 14503953

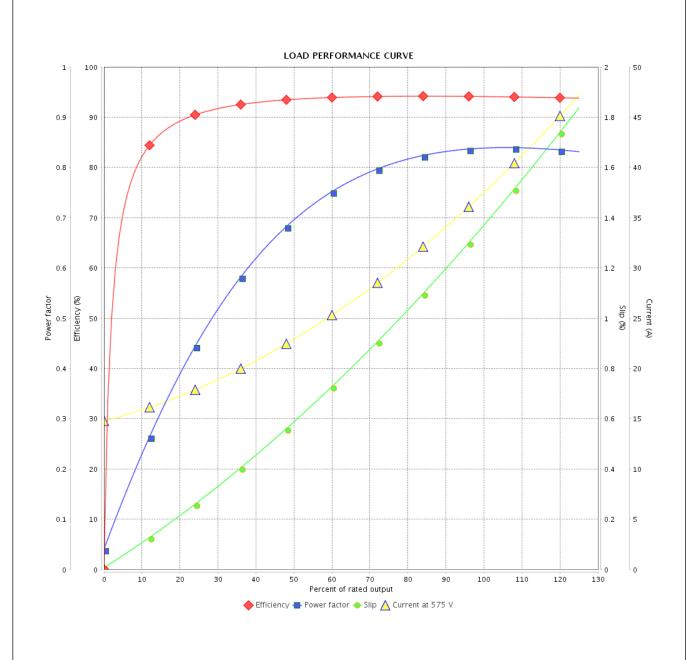
Three-Phase

Catalog #: 04018OT3H324T-W40G

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Revision



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

Three Phase Induction Motor - Squirrel Cage



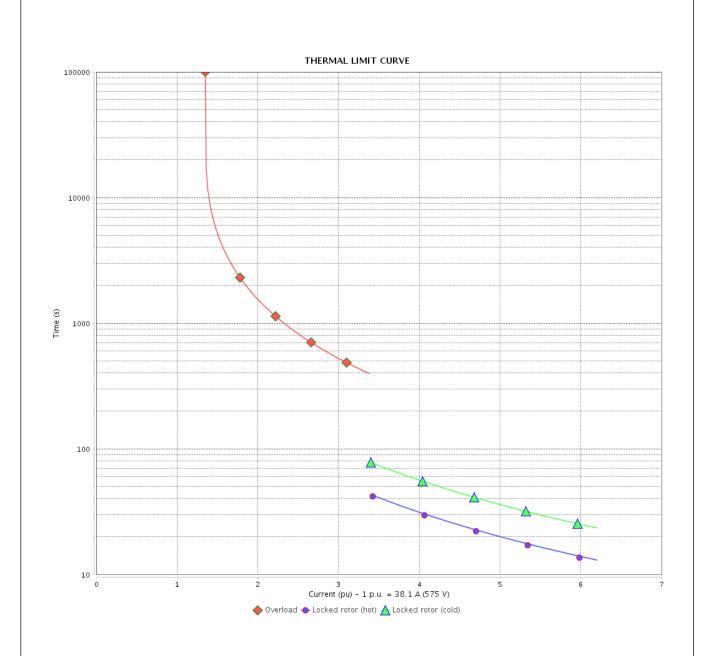
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Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14503953	
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Performance	: 57	75 V 60 Hz 4P				
Rated current LRC	: 38 : 6.	3.1 A 2	Duty cycle	f inertia (J)	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu		18 ft.lb 00 %	Insulation Service fac		: F : 1.25	
Breakdown torque Rated speed	: 24	70 % 10 % 175 rpm	Temperatu Design		: 80 K : B	
Heating constant						
Cooling constant					1	
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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 :

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Date

12/04/2022

Product line : W40 NEMA Premium Efficiency

Three-Phase

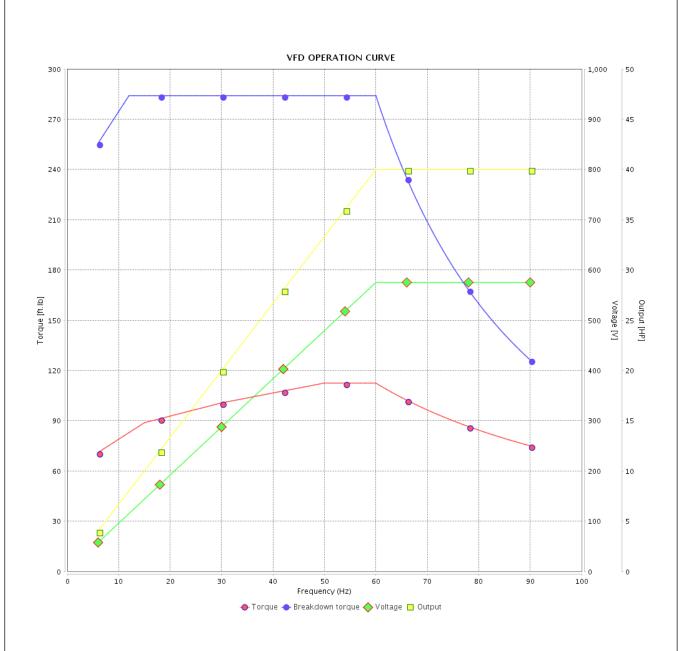
Product code: 14503953

Catalog #: 04018OT3H324T-W40G

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Revision



Performance	: 57	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 11 jue : 20 ie : 24	: 38.1 A Moment of i : 6.2 Duty cycle : 118 ft.lb Insulation of insulation of service fact : 200 % Service fact : 240 % Temperature : 1775 rpm Design		class ctor	: Cont.(S1) class : F ctor : 1.25	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
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