DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272478 Three-Phase Catalog #: 10018OT3H404T-W40 Frame : 404/5T Locked rotor time : 21s (cold) 12s (hot) Output : 100 HP (75 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 : 92.0 A Protection degree : IP23 L. R. Amperes : 626 A Cooling method : IC01 - ODP : 6.8x(Code G) LRC Mounting : F-1 No load current : 31.8 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 295 ft.lb Approx. weight³ : 950 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 21.9 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 94.9 95.4 Efficiency (%) 95.0 95.4 Max. traction : 1737 lb Power Factor 0.86 0.49 0.75 0.83 Max. compression : 2687 lb Non drive end Drive end Bearing type 6316 C3 6212 Z C3 Sealing Without Bearing Seal Without Bearing Seal Lubrication interval 20000 h 20000 h

Lubricant amount 34 g 13 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

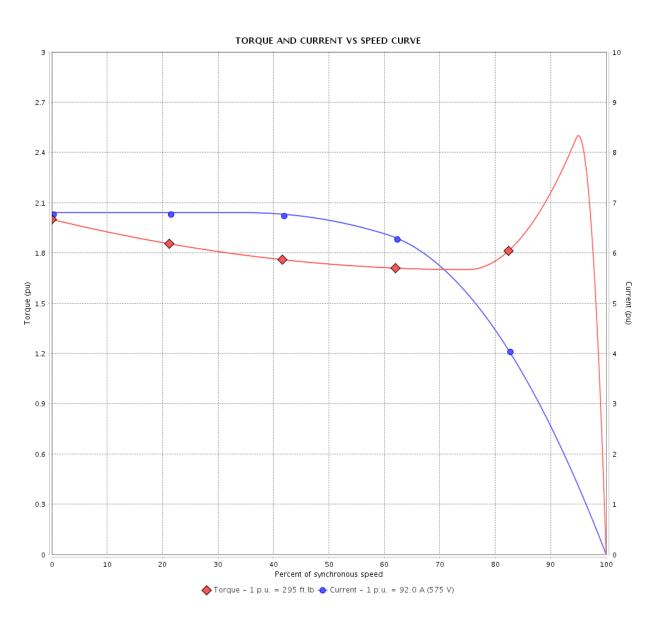


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272478

Three-Phase

Catalog #: 10018OT3H404T-W40



Performance	: 575 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 92.0 A : 6.8 : 295 ft.lb : 200 % : 250 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 21.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 21s (cold) 12s (hot)	l		

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

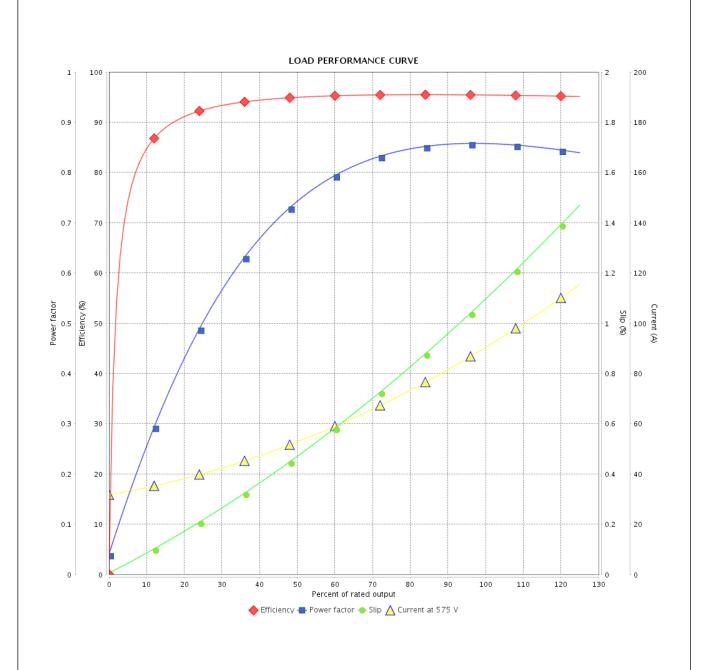


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272478

Three-Phase

Catalog #: 10018OT3H404T-W40



Performance	:	575 V 60 Hz 4P				
Rated current	:	: 92.0 A Moment of inertia (J)		f inertia (J)	: 21.9 sq.ft.lb	
LRC	:	6.8	Duty cycle)	: Cont.(S1)	
Rated torque	::	: 295 ft.lb Insulation clas : 200 % Service factor : 250 % Temperature ri : 1780 rpm Design		class	:F	
Locked rotor torque	e ::			ctor : 1.25		
Breakdown torque	:			ıre rise	: 80 K	
Rated speed	:				: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



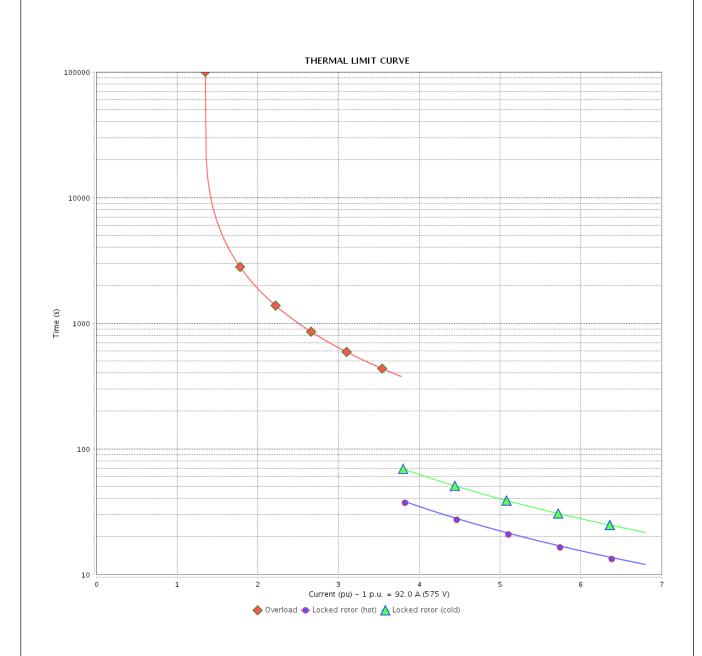
Customer	:					
Product line		N40 NEMA Premium Efficionree-Phase		Product code :	14272478	047 1440
				Catalog # :	10018OT3H4	04T-W40
Performance Rated current LRC Rated torque	: 92 : 6. : 29	95 ft.lb	Moment of Duty cycle Insulation	class	: 21.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 25	00 % 50 % 780 rpm	Service fac Temperatu Design		: 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		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



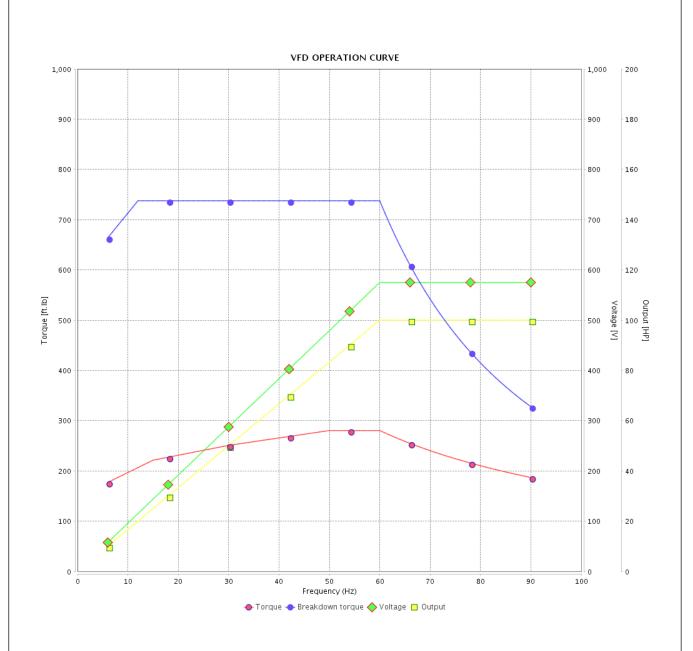
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272478

Catalog #: 10018OT3H404T-W40



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 92.0 A : 6.8 : 295 ft.lb : 200 % : 250 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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12/04/2022

Date

