DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272886 Three-Phase Catalog #: 12518OT3H405TC-W40 Frame : 404/5TC Locked rotor time : 18s (cold) 10s (hot) Output : 125 HP 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 : 110 A Protection degree : IP23 L. R. Amperes : 762 A Cooling method : IC01 - ODP : 6.9x(Code G) LRC Mounting : F-1 No load current : 37.6 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 : 369 ft.lb Approx. weight³ : 1048 lb Locked rotor torque : 270 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 25.5 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.4 Efficiency (%) 94.9 95.0 95.4 Max. traction : 2351 lb Power Factor 0.50 0.86 0.75 0.83 Max. compression : 3399 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



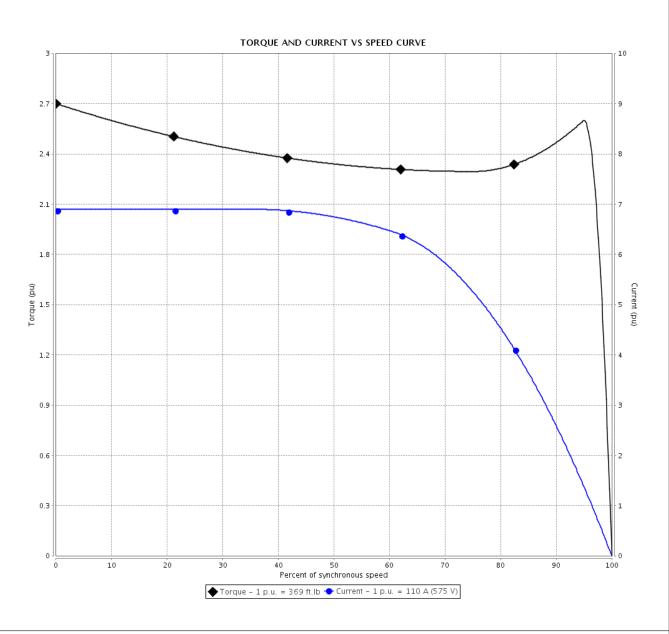
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272886

Catalog #: 12518OT3H405TC-W40



Performance : 575 V 60 Hz 4P Rated current : 110 A Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 369 ft.lb : F Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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Performed by					
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LOAD PERFORMANCE CURVE

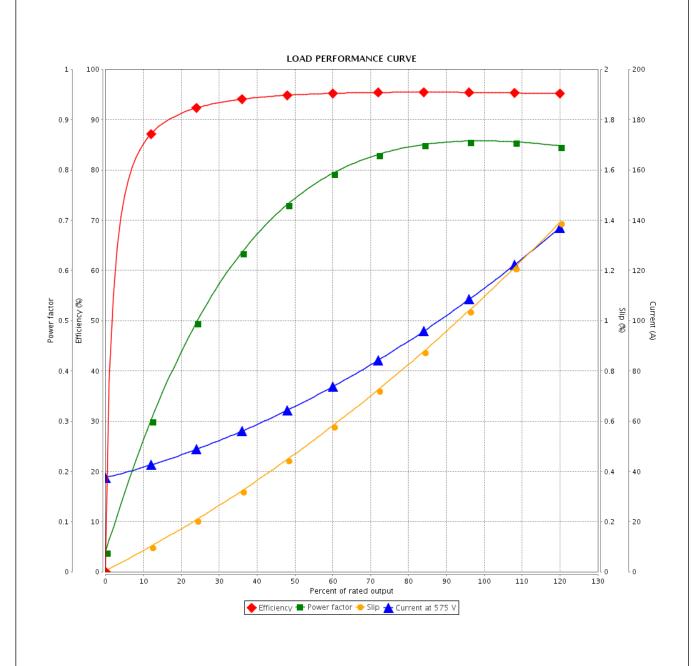
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code: 14272886

Catalog #: 12518OT3H405TC-W40



Performance	: 5	575 V 60 Hz 4P					
Rated current	: 1	: 110 A Moment of inertia : 6.9 Duty cycle : 369 ft.lb Insulation class : 270 % Service factor : 260 % Temperature rise		f inertia (J)	: 25.5 sq.ft.lb		
LRC	: 6			;	: Cont.(S1)		
Rated torque	: 3			class	: F		
Locked rotor torqu	e : 2			ctor	: 1.25		
Breakdown torque	: 2			Temperature rise			
Rated speed	: 1	780 rpm	Design		: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



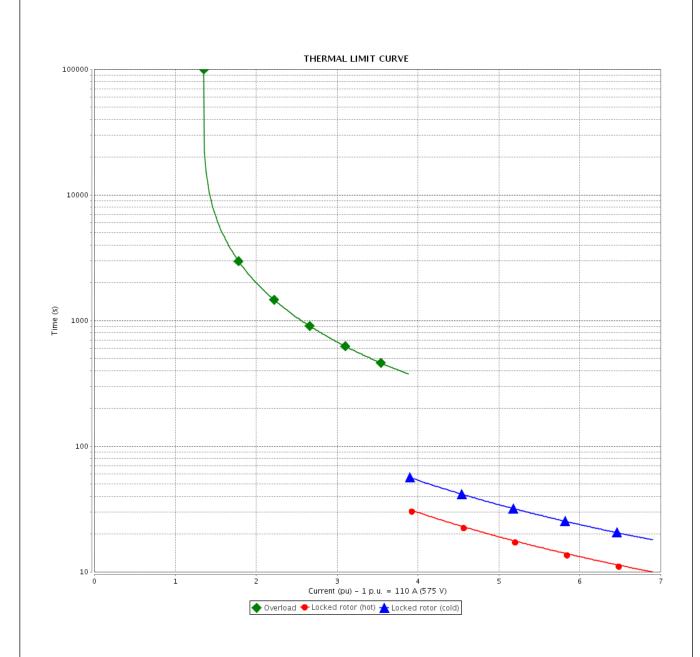
Customer		:				
Draduat line		· M/40 NEMA Promium Effici	2001	Product code :	14272886	
Product line		: W40 NEMA Premium Efficie Three-Phase			14272000	
				Catalog # :	12518OT3H4	105TC-W40
Performance	:	575 V 60 Hz 4P				
Rated current		110 A	Moment o	of inertia (J)	: 25.5 sq.ft.lb	
LRC Rated torque		6.9 369 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc	jue :	270 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		260 % 1780 rpm	Temperati Design	ure rise	: 80 K : B	
		17 00 1μπ	Design			
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Performed by						
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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 :

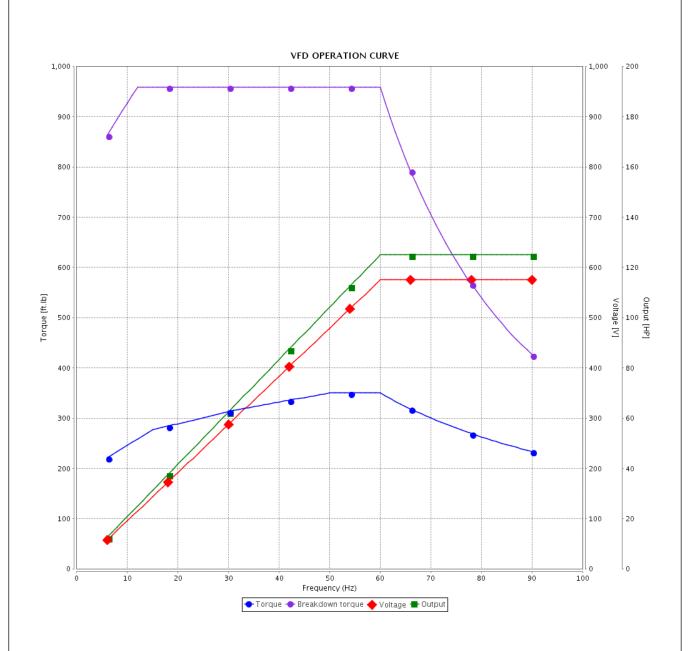
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272886

Catalog #: 12518OT3H405TC-W40

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Performance : 575 V 60 Hz 4P Rated current : 110 A						·	
LRC : 6.9 Duty cycle : Cont.(S1) Rated torque : 369 ft.lb Insulation class : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Changes Summary Performed Checked Date Performed by	Performance	: 5	575 V 60 Hz 4P				
Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Changes Summary Performed Checked Date Performed by		= :		1		•	
Rated speed : 1780 rpm Design : B Rev. Changes Summary Performed Checked Date Performed by	Locked rotor torq	que : 2	270 %	Service factor		: 1.25	
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·	Rev.		Changes Summa	ary	Performed	Checked	Date
	Performed by						
Checked by Page Revision	Checked by					Page	Revision

10/04/2020

Date

