DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272884 Three-Phase Catalog #: 12518OT3H405T-W40 Frame : 404/5T 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 : 1025 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 : 2363 lb Power Factor 0.50 0.86 : 3388 lb 0.75 0.83 Max. compression Non drive end Drive end Bearing type 6316 C3 6212 Z C3

Bearing type : 6316 C3 6212 Z C3
Sealing : Without Bearing Seal
Lubrication interval : 20000 h
Lubricant amount : 34 g 13 g

Lubricant amount : 34 g I 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



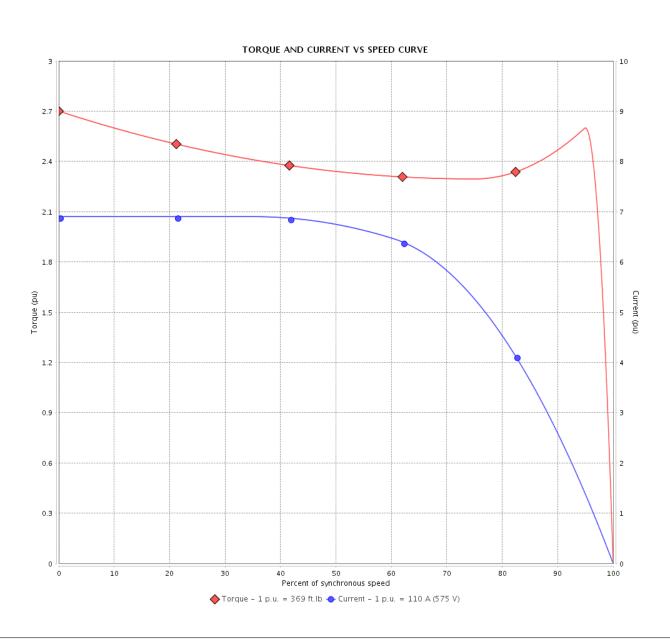
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272884

Catalog #: 12518OT3H405T-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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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

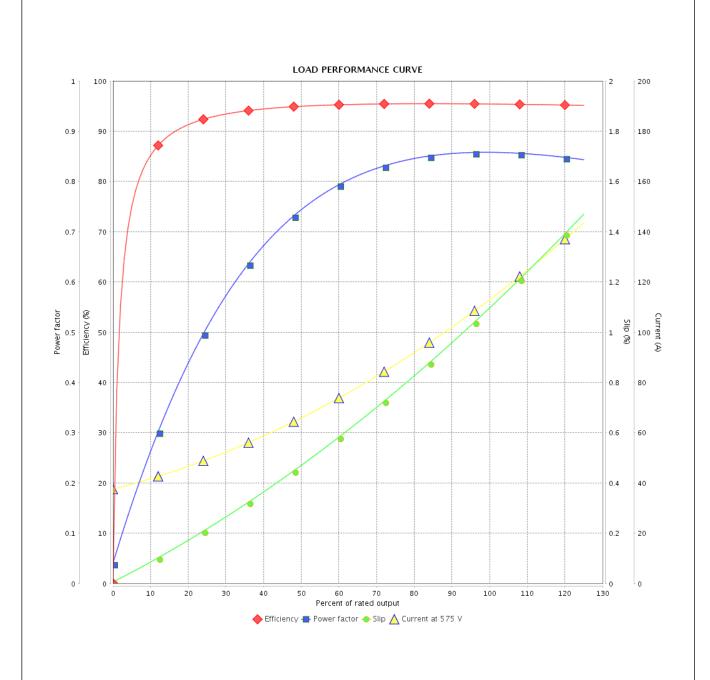


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14272884

Three-Phase

Catalog #: 12518OT3H405T-W40



Performance :		: 575 V 60 Hz 4P						
Rated current : 1		10 A	Moment o	Moment of inertia (J)				
LRC : 6.9		.9	Duty cycle	Duty cycle				
Rated torque : 36		69 ft.lb	Insulation	Insulation class				
Locked rotor torqu	ie : 2	70 %	Service fa	Service factor				
Breakdown torque		60 %	Temperati	Temperature rise				
Rated speed	: 17	780 rpm	Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



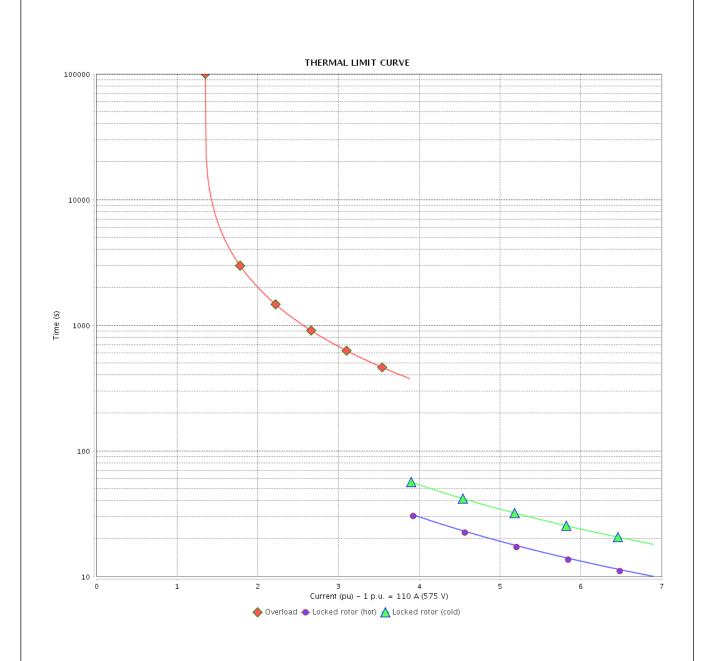
Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	14272884 12518OT3H40	05T-W40
Performance		575 V 60 Hz 4P				
Rated current LRC	:	110 A 6.9	Duty cycle		: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque		369 ft.lb 270 %	Insulation Service fa		: F : 1.25	
Locked rotor tord Breakdown torqu		260 %	Temperatu		: 1.25 : 80 K	
Rated speed		1780 rpm	Design	- · · · · · ·	: B	
Heating constant Cooling constant						
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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 :

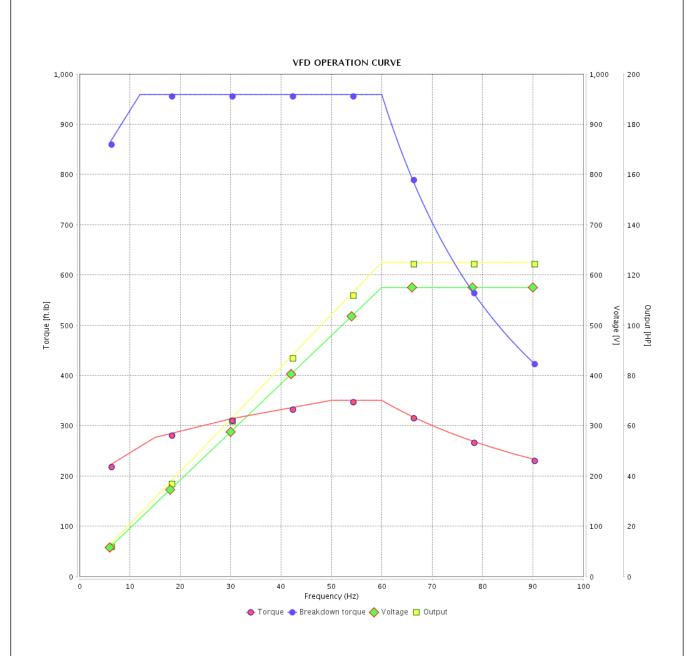
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272884

Catalog #: 12518OT3H405T-W40

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Performance	: 575 V 60 Hz 4P				
		1		05.5 (1.11	
Rated current	: 110 A	Moment of inertia (J)		: 25.5 sq.ft.lb	
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 369 ft.lb	Insulation class		: F	
Locked rotor torque	: 270 % Ser		ctor	: 1.25	
Breakdown torque	: 260 %	Temperature rise Design		: 80 K	
Rated speed	: 1780 rpm			: B	
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13/04/2022

Date

