### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272926 Three-Phase Catalog #: 12518OT3H405T-W40G 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 Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1780 rpm Noise level<sup>2</sup> : 69.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 369 ft.lb Approx. weight<sup>3</sup> : 1072 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 : 2339 lb Power Factor 0.50 0.86 0.75 0.83 Max. compression : 3411 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



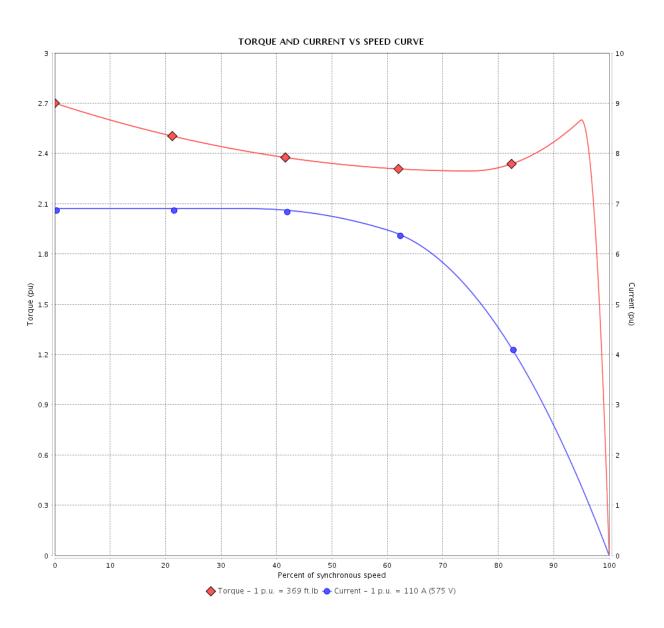
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272926

Catalog #: 12518OT3H405T-W40G



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



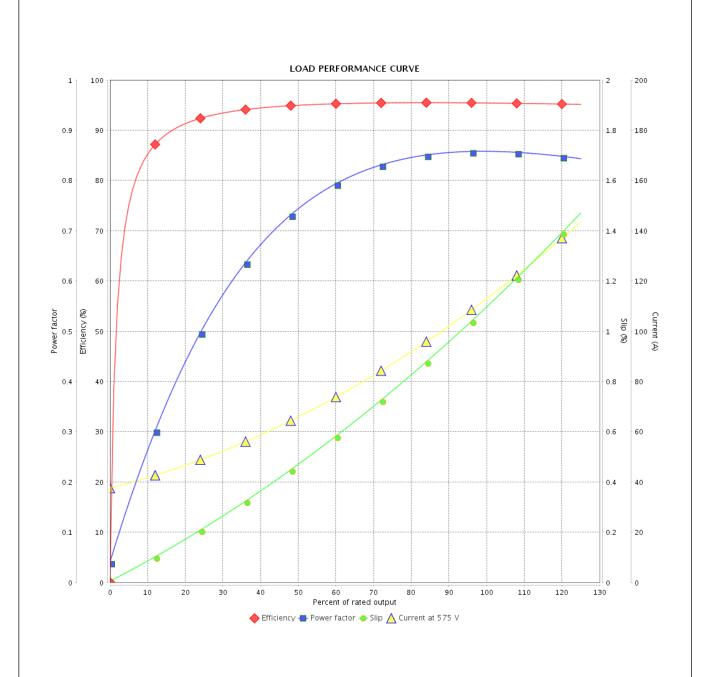
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 12518OT3H405T-W40G

14272926



					·	
Performance	: 5	75 V 60 Hz 4P				
Rated current	: 1	10 A	Moment o	f inertia (J)	: 25.5 sq.ft.lb	
LRC	: 6	.9	Duty cycle		: Cont.(S1)	
Rated torque	: 3	69 ft.lb	Insulation class		:F	
Locked rotor torque	e : 2	70 %	Service factor		: 1.25	
Breakdown torque	: 2	60 %	Temperati	ure rise	: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



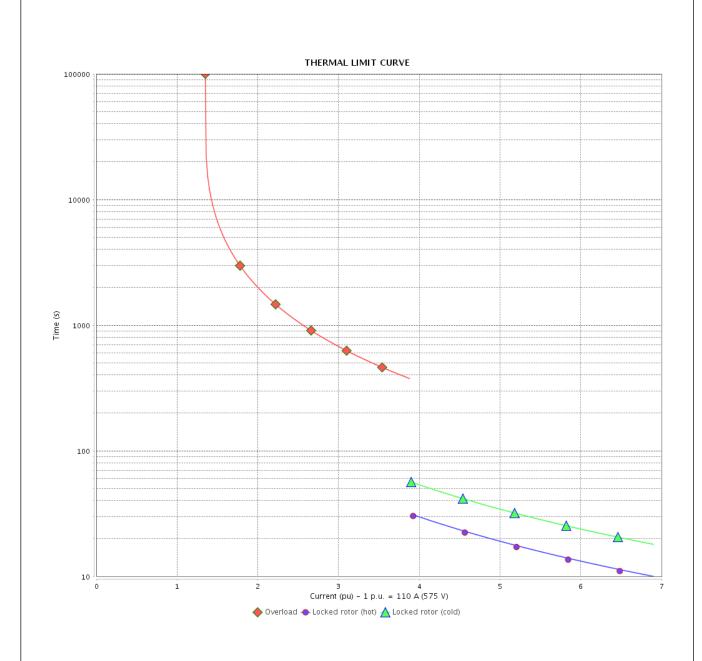
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Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14272926	
				Catalog # :	12518OT3H4	05T-W40G
Performance		575 V 60 Hz 4P				
Rated current	:	110 A	Moment o	of inertia (J)	: 25.5 sq.ft.lb	
LRC	:	6.9	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torc		369 ft.lb 270 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie :	260 %	Temperati		: 80 K	
Rated speed	:	1780 rpm	Design		: B	
Heating constant	t					
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



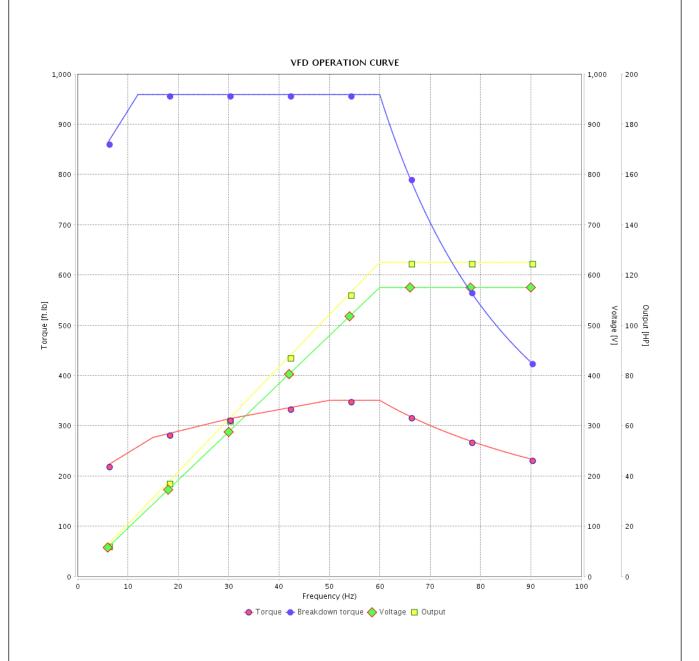
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272926

Catalog #: 12518OT3H405T-W40G



Performance	: 5	75 V 60 Hz 4P				
Rated current : 1		10 A	Moment of	Moment of inertia (J)		
LRC : 6.9		.9	Duty cycle	Duty cycle		
Rated torque : 36		69 ft.lb	Insulation	Insulation class		
Locked rotor torq	ue : 2	70 %	Service fa	Service factor		
Breakdown torque		60 %	Temperat	Temperature rise		
Rated speed	: 1	780 rpm	Design		: B	
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