### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14272880 Three-Phase Catalog #: 12518OT3G405T-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 : 460 V : 1000 m.a.s.l. Altitude Rated current : 138 A Protection degree : IP23 L. R. Amperes : 952 A Cooling method : IC01 - ODP : 6.9x(Code G) LRC Mounting : F-1 No load current : 47.0 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> : 1026 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 : 2892 lb Power Factor 0.50 0.86 0.75 0.83 Max. compression : 3918 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 Lubricant type

13 g

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



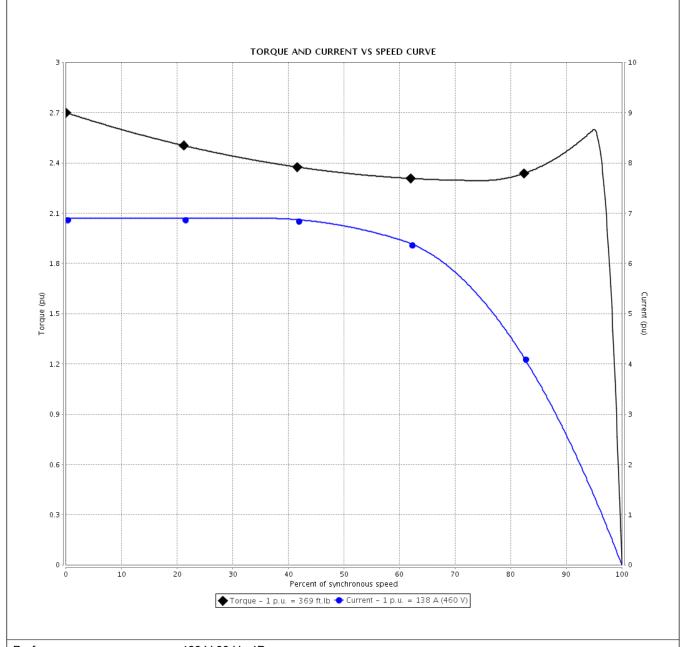
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272880

Catalog #: 12518OT3G405T-W40



 Performance
 : 460 V 60 Hz 4P

 Rated current LRC
 : 138 A Section 1.00 (S1)

 Incompanies to the performance of the p

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



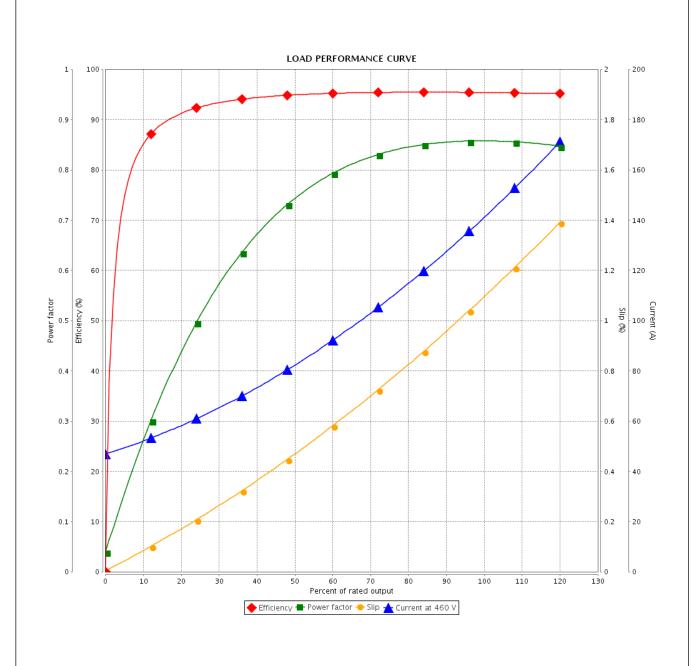
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 12518OT3G405T-W40

14272880



Performance : 46		60 V 60 Hz 4P				
Rated current :		38 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	
•		70 %	Service factor		: 1.25	
Breakdown torque	: 20	: 260 % : 1780 rpm D		ıre rise	: 80 K	
Rated speed	: 1				: B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



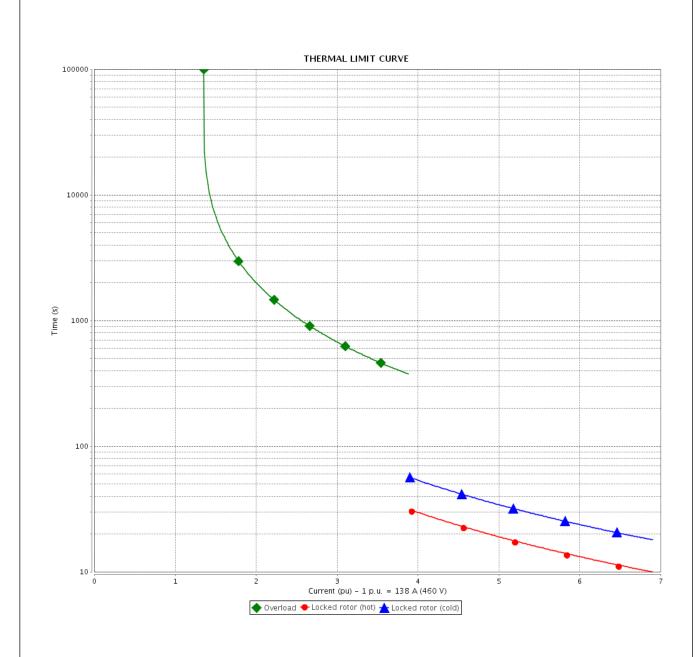
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Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14272880	
	11	iiee-riiase	(	Catalog # :	12518OT3G4	05T-W40
Performance		60 V 60 Hz 4P	T			
Rated current LRC	: 13 : 6.	38 A 9	Moment of Duty cycle	f inertia (J)	: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 36	69 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 60 %	Service fa		: 1.25 : 80 K	
Rated speed		780 rpm	Design	1136	: 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



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Checked by

Date

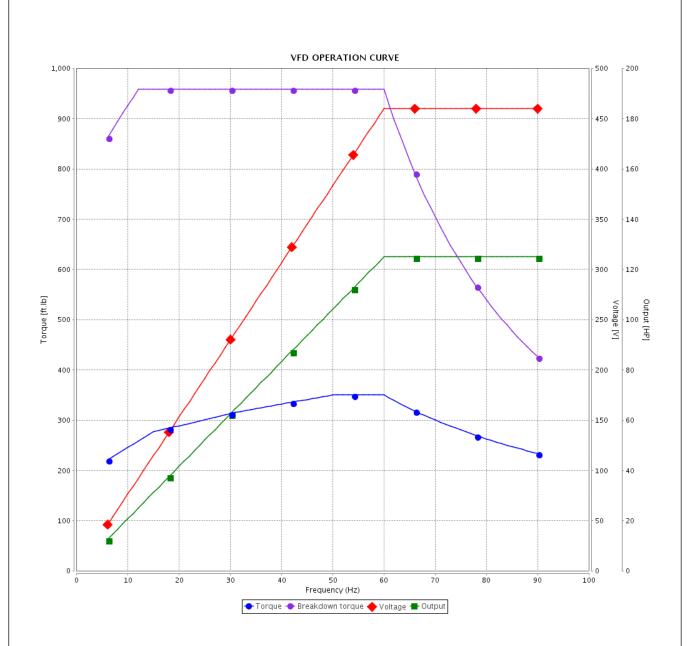
10/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272880

Catalog #: 12518OT3G405T-W40



Performance : 460 V 60 Hz 4P : 138 A Rated current Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 369 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

