### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12447100 Catalog #: 02518ET3H284T-W22 Frame : 284/6T Locked rotor time : 43s (cold) 24s (hot) Output : 25 HP (18.5 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 : 23.6 A Protection degree : IP55 L. R. Amperes : 146 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 8.40 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1765 rpm Noise level<sup>2</sup> : 63.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 74.4 ft.lb Approx. weight<sup>3</sup> : 427 lb : 240 % Locked rotor torque Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.11 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 93.6 : 662 lb Efficiency (%) 91.7 92.4 93.0 Max. traction Power Factor 0.70 0.80 0.84 : 1089 lb 0.46 Max. compression Non drive end Drive end Bearing type 6311 C3 6211 C3 V'Ring Sealing V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 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



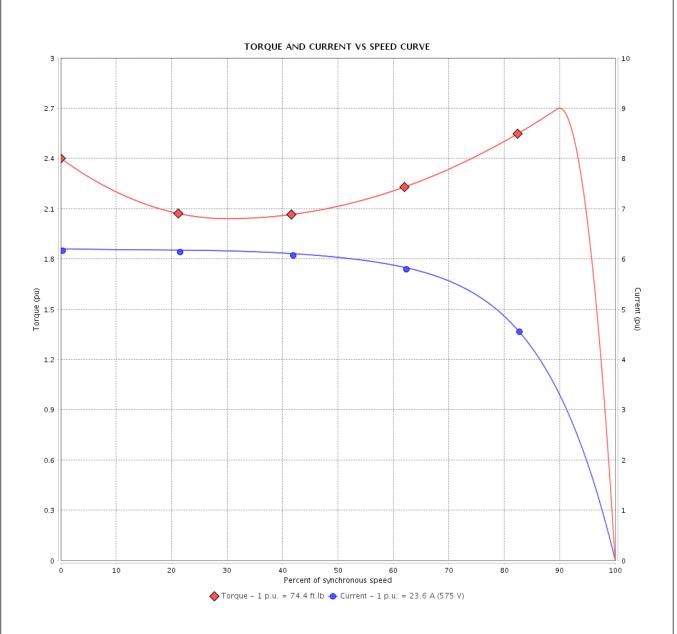
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02518ET3H284T-W22

12447100



Performance	: 575 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 23.6 A : 6.2 : 74.4 ft.lb : 240 % : 270 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 43s (cold) 24s (hot)			

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



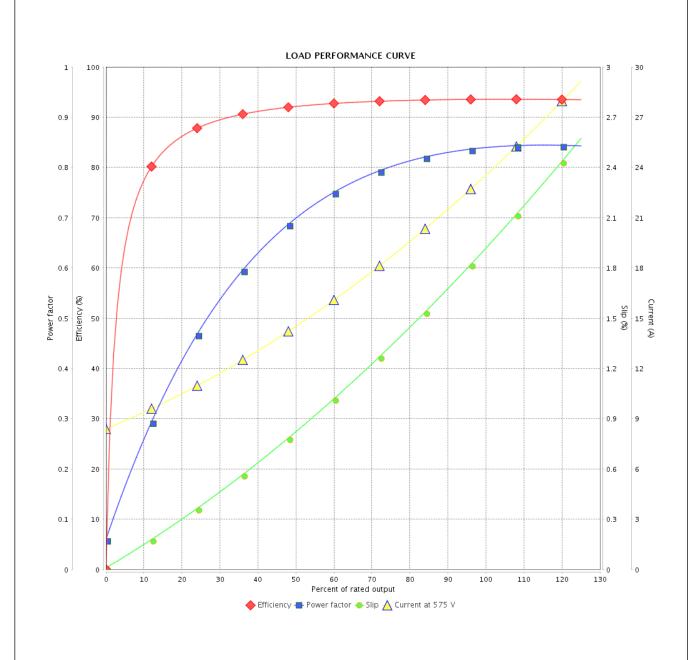
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447100

Phase

Catalog #: 02518ET3H284T-W22

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Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 23.6 A : 6.2 : 74.4 ft.lb : 240 % : 270 % : 1765 rpm	Duty cycle Insulation Service fac	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



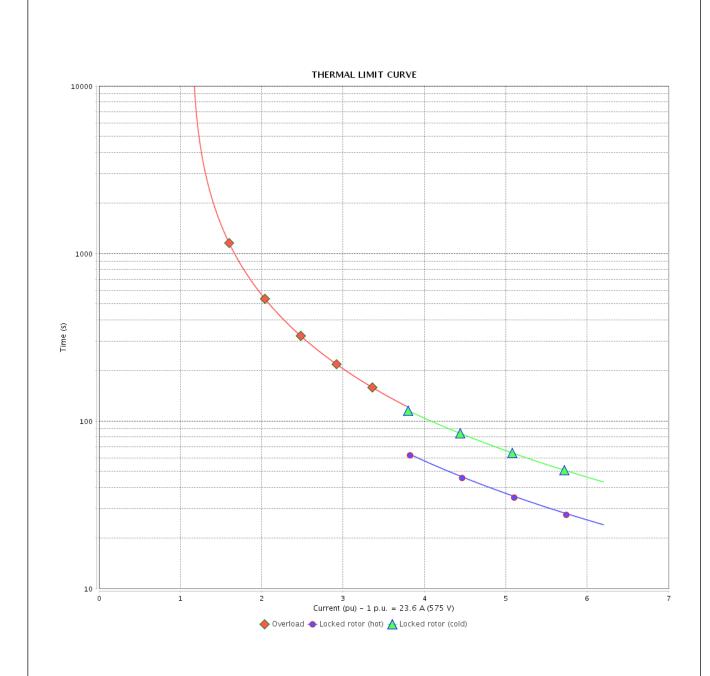
Customer		:						
Product line		: NEMA Premium Efficiency Three-		Product code :	12447100	12447100		
		Phase				0.4T \4400		
				Catalog # :	02518ET3H28	841-W22		
Performance		: 575 V 60 Hz 4P	N4	f:	. 5 44 4 11-			
Rated current LRC		: 23.6 A : 6.2	Duty cycle	of inertia (J)	: 5.11 sq.ft.lb : Cont.(S1)			
Rated torque	:	: 74.4 ft.lb	Insulation	class	: F			
Locked rotor tord Breakdown torqu		: 240 % : 270 %	Service fa Temperati		: 1.25 : 80 K			
Rated speed		: 1765 rpm	Design	uic lisc	: 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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Date

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Product line : NEMA Premium Efficiency Three-

Phase

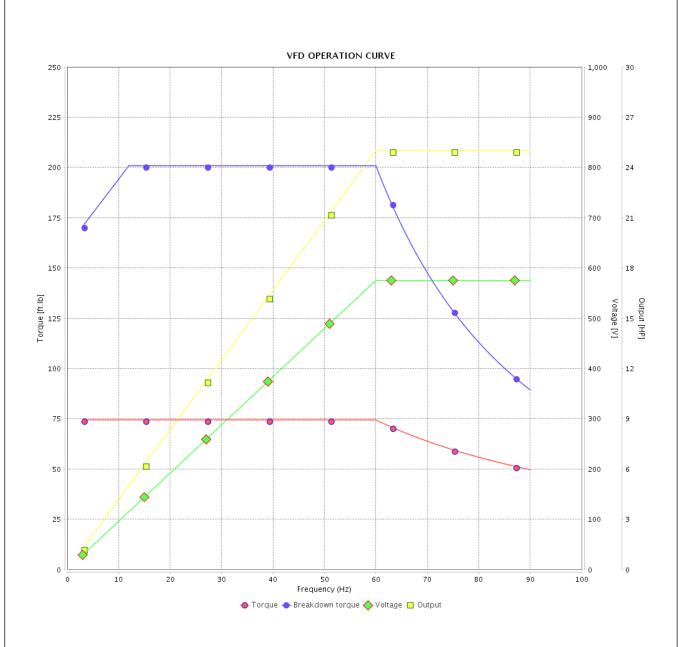
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Performance	:	: 575 V 60 Hz 4F	<b>D</b>				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 6.2       Duty cycle       : Co         : 74.4 ft.lb       Insulation class       : F         : 240 %       Service factor       : 1.2		: 1.25 : 80 K			
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