DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14387127 Catalog #: 03036ET3H286TS-W22G Frame : 284/6TS Locked rotor time : 27s (cold) 15s (hot) Output : 30 HP (22 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 : 27.4 A Protection degree : IP55 L. R. Amperes : 172 A Cooling method : IC411 - TEFC LRC : 6.3x(Code G) Mounting : F-1 No load current : 8.00 A Rotation¹ : Both (CW and CCW) Rated speed : 3540 rpm Noise level² : 72.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 44.6 ft.lb Approx. weight³ : 392 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.37 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.7 : 289 lb Efficiency (%) 91.6 91.7 91.7 Max. traction : 681 lb Power Factor 0.80 0.86 0.88 0.55 Max. compression Non drive end Drive end Bearing type 6311 C3 6211 C3 V'Ring Sealing V'Ring Lubrication interval 14000 h 17000 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



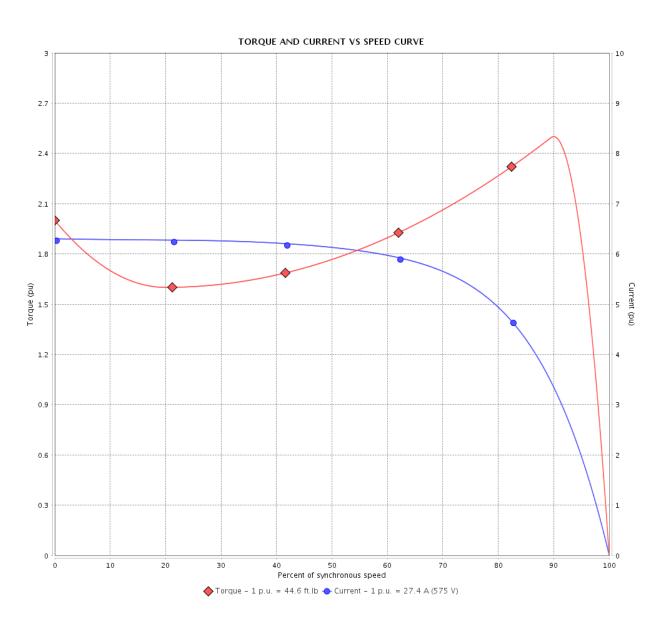
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14387127

Catalog #: 03036ET3H286TS-W22G



Performance : 575 V 60 Hz 2P Rated current : 27.4 A Moment of inertia (J) : 3.37 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.6 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3540 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



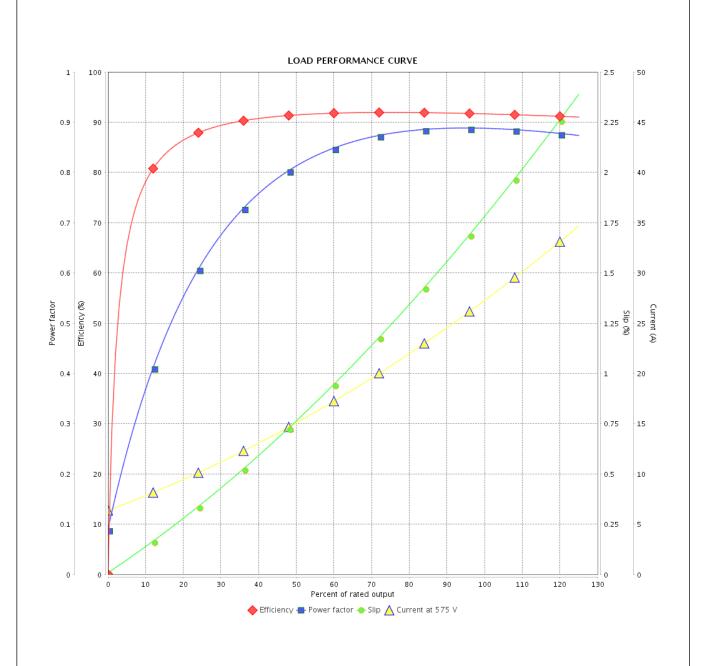
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03036ET3H286TS-W22G

14387127



Performance :		: 575 V 60 Hz 2P					
Rated current		27.4 A	Moment o	Moment of inertia (J)		: 3.37 sq.ft.lb	
LRC : 6		5.3	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque :		4.6 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque :		200 %	Service fa	Service factor		: 1.25	
Breakdown torque	: 2	250 % Temperature rise Design		re rise : 80 K			
Rated speed	: 3				: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



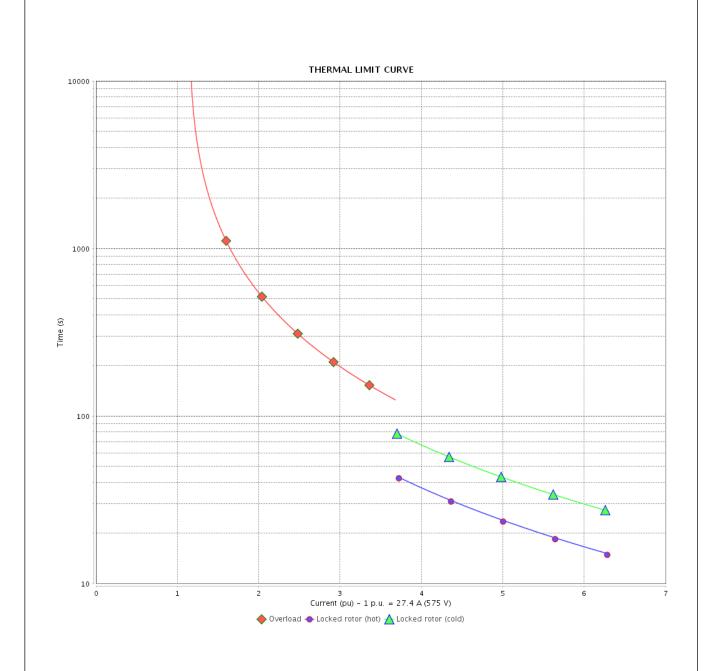
Customer	:			
Product line	: NEMA Premium Efficiency Phase		14387127	
		Catalog # :	03036ET3H2	86TS-W22G
Performance	: 575 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.4 A : 6.3 : 44.6 ft.lb : 200 % : 250 % : 3540 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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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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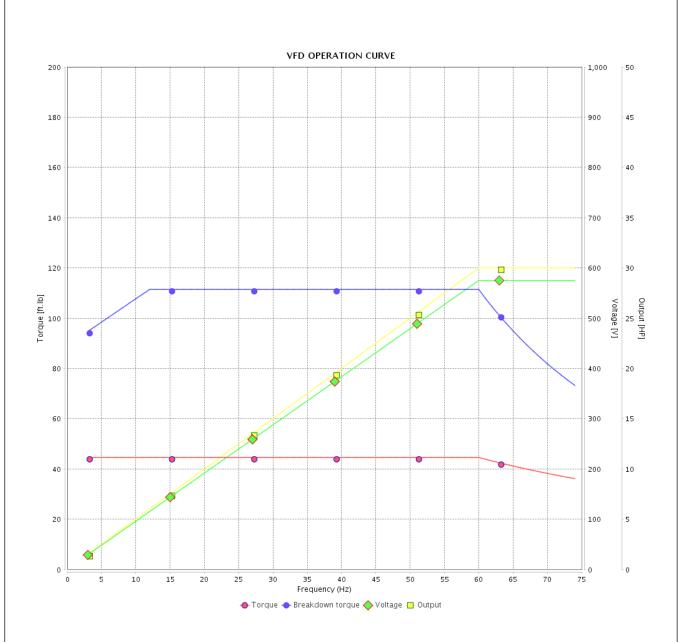
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14387127

Catalog #: 03036ET3H286TS-W22G



Performance : 575 V 60 Hz 2P : 27.4 A Rated current Moment of inertia (J) : 3.37 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 44.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3540 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

