### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11434624 Catalog #: 12536ST3HIE444TS-W22 Frame : 444/5TS Locked rotor time : 52s (cold) 29s (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 : 107 A Rated current Protection degree : IP55 L. R. Amperes : 708 A Cooling method : IC411 - TEFC LRC : 6.6x(Code G) Mounting : F-1 No load current : 27.2 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3570 rpm Noise level<sup>2</sup> : 81.0 dB(A) Starting method Slip : 0.83 % : Direct On Line Rated torque : 184 ft.lb Approx. weight<sup>3</sup> : 1629 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 33.5 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.0 : 410 lb Efficiency (%) 93.0 93.6 94.5 Max. traction Power Factor 0.87 0.89 : 2040 lb 0.59 0.82 Max. compression Drive end Non drive end Bearing type 6314 C3 6314 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 4000 h 4000 h Lubricant amount 27 g 27 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

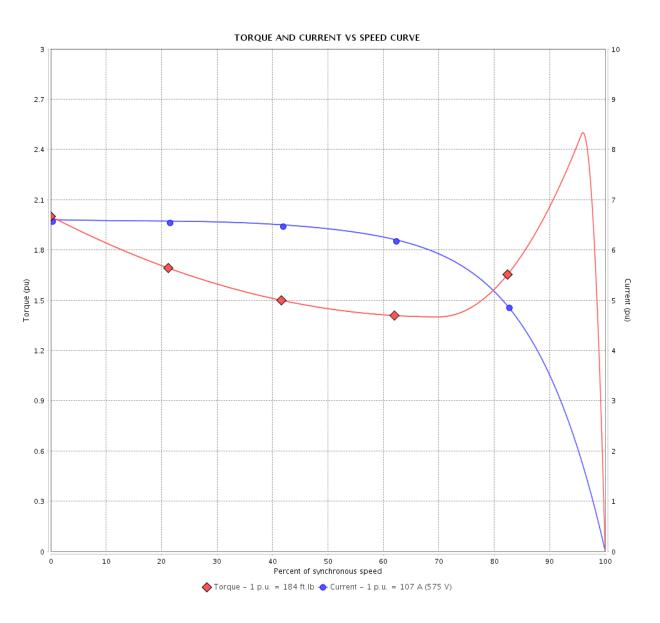
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11434624

Catalog #: 12536ST3HIE444TS-W22



Performance : 575 V 60 Hz 2P Rated current : 107 A Moment of inertia (J) : 33.5 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 184 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 : 250 % Breakdown torque Temperature rise : 80 K Rated speed : 3570 rpm Design : B Locked rotor time

: 52s (cold) 29s (hot)

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

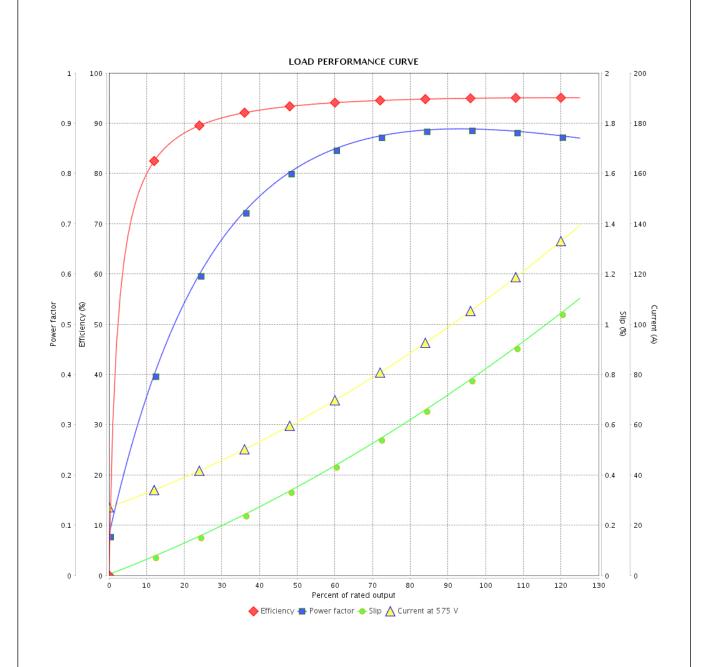


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11434624

Phase

Catalog #: 12536ST3HIE444TS-W22



Performance : 5		75 V 60 Hz 2P					
		07 A Moment of inertia (J)		: 33.5 sq.ft.lb			
LRC	: 6	· <del>·</del>		Duty cycle		: Cont.(S1)	
Rated torque :		84 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque		00 %	Service fa	Service factor		: 1.15	
Breakdown torque		250 % Temperat		ure rise	: 80 K		
Rated speed	: 3	570 rpm Design			: B		
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



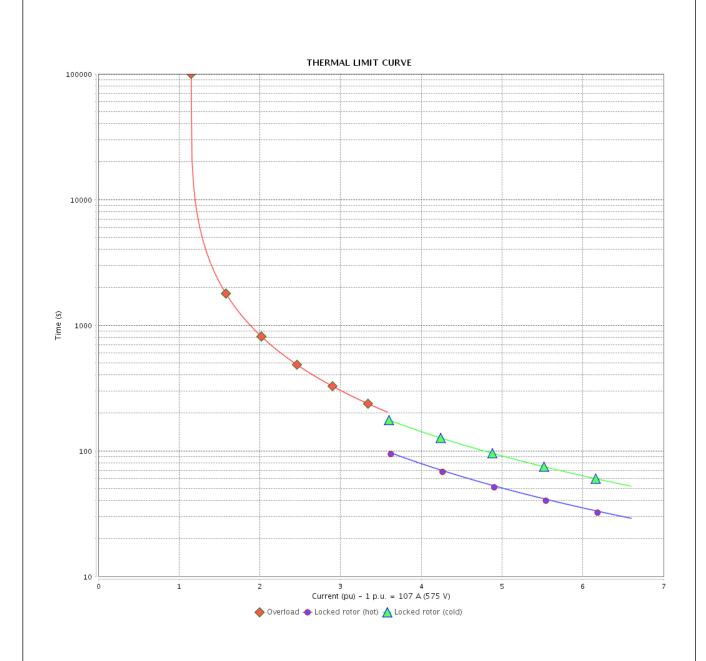
Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code :	11434624 12536ST3HIE	E444TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 575 V 60 Hz 2P : 107 A : 6.6 : 184 ft.lb : 200 % : 250 % : 3570 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 33.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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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



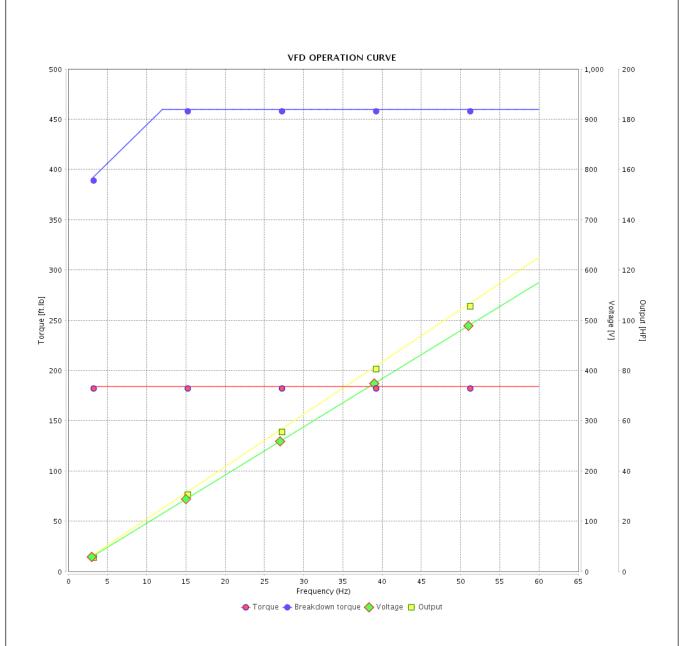
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11434624

Catalog #: 12536ST3HIE444TS-W22



Performance : 575 V 60 Hz 2P : 107 A Rated current Moment of inertia (J) : 33.5 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class : 184 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3570 rpm Design : B Rev. Performed Checked **Changes Summary** Date

