DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13533088 Catalog #: 00336ST3HIE182T-W22 Frame : 182/4T Locked rotor time : 73s (cold) 41s (hot) Output : 3 HP (2.2 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 : 2.90 A Protection degree : IP55 L. R. Amperes : 25.0 A Cooling method : IC411 - TEFC LRC : 8.6x(Code K) Mounting : F-1 No load current : 1.04 A Rotation¹ : Both (CW and CCW) Rated speed : 3510 rpm Noise level² : 66.0 dB(A) Starting method Slip : 2.50 % : Direct On Line Rated torque : 4.49 ft.lb Approx. weight³ : 91.7 lb Locked rotor torque : 250 % Breakdown torque : 380 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1889 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 86.5 86.5 : 63 lb Efficiency (%) 82.0 82.5 Max. traction Power Factor 0.50 0.84 0.88 : 155 lb 0.75 Max. compression Non drive end Drive end Bearing type 6207 C3 6206 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 7 g 5 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

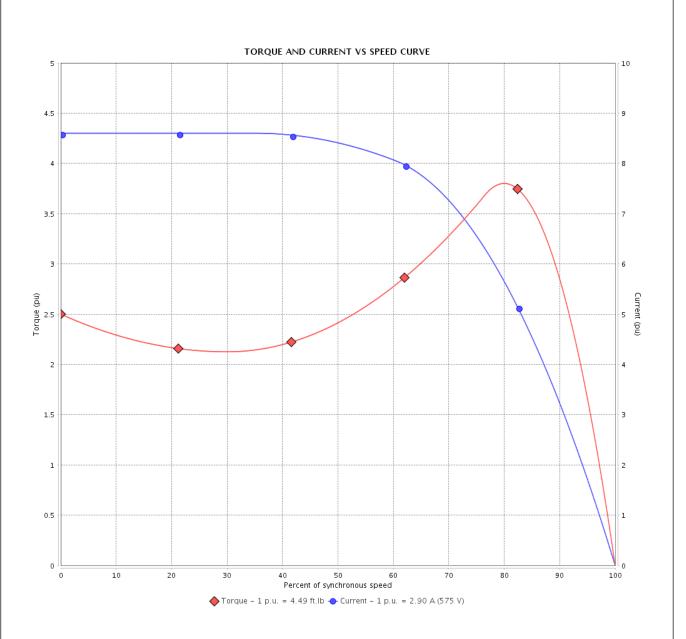


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00336ST3HIE182T-W22

13533088



Performance : 575 V 60 Hz 2P Rated current : 2.90 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 4.49 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Locked rotor time

: 73s (cold) 41s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

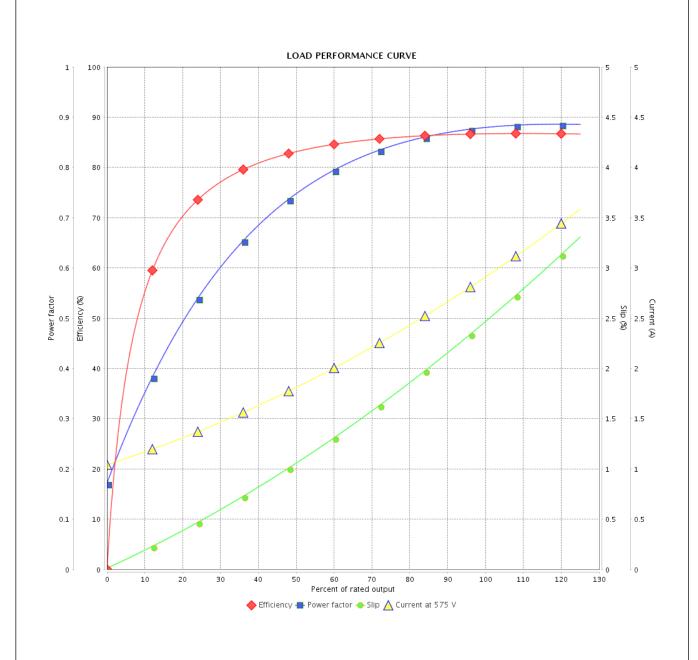
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Product line : NEMA Premium Efficiency Three-Product code: 13533088

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: 575 V 60 Hz 2P					
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: 4.49 ft.lb		Insulation class		:F	
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Subject to change without notice						

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



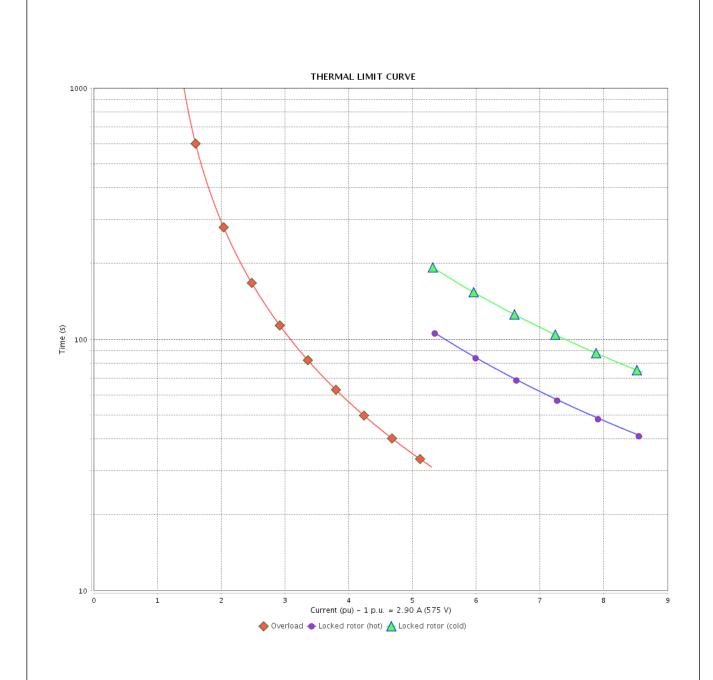
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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Customer :

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Date

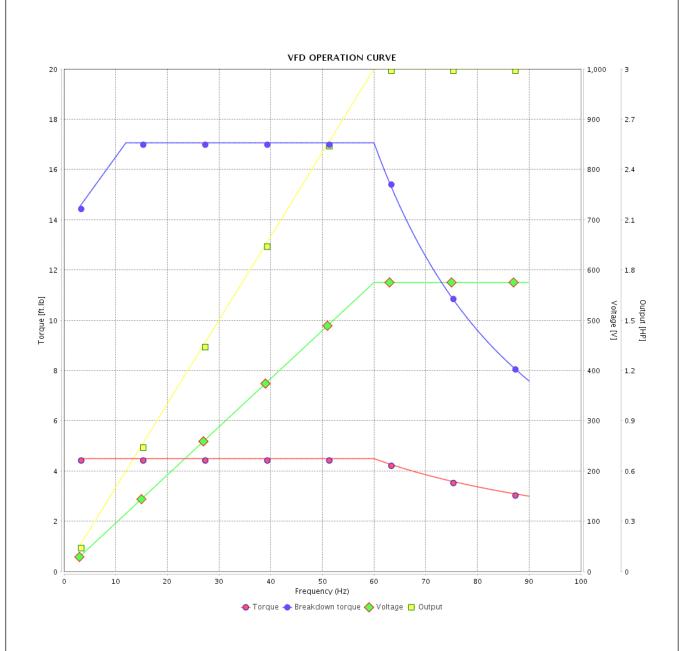
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13533088

Catalog #: 00336ST3HIE182T-W22



Performance : 575 V 60 Hz 2P : 2.90 A Rated current Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) : 4.49 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

