DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11432605 Catalog #: 00236ST3HIE145T-W22 Frame : 143/5T Locked rotor time : 30s (cold) 17s (hot) Output : 2 HP (1.5 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 : 2.05 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 18.2 A LRC : 8.9x(Code L) Mounting : F-1 No load current : 0.720 A Rotation¹ : Both (CW and CCW) Rated speed : 3475 rpm Noise level² : 68.0 dB(A) Starting method Slip : 3.47 % : Direct On Line Rated torque : 3.02 ft.lb Approx. weight³ : 57.3 lb Locked rotor torque : 350 % Breakdown torque : 380 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0605 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 : 71 lb Efficiency (%) 82.0 82.5 85.5 Max. traction Power Factor 0.80 0.86 : 128 lb 0.47 0.71 Max. compression Drive end Non drive end Bearing type 6205 C3 6204 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 4 g 4 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

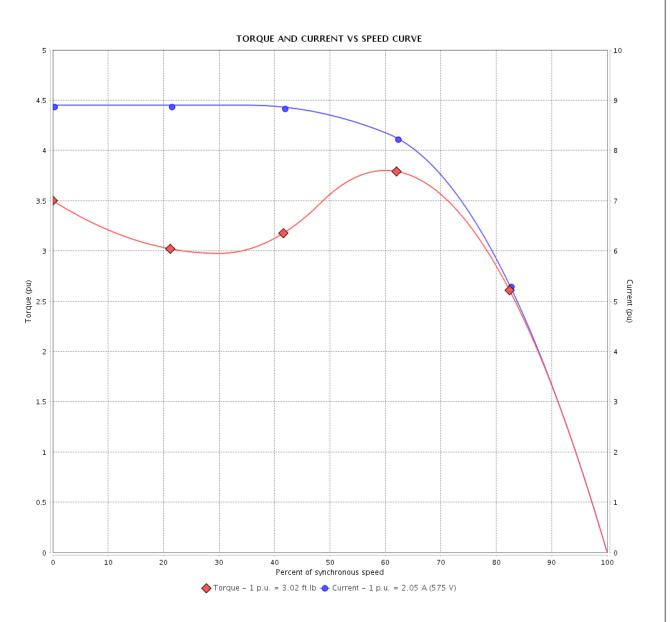


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11432605

Phase

Catalog #: 00236ST3HIE145T-W22



Performance : 575 V 60 Hz 2P Rated current : 2.05 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.02 ft.lb Service factor Locked rotor torque : 350 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3475 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



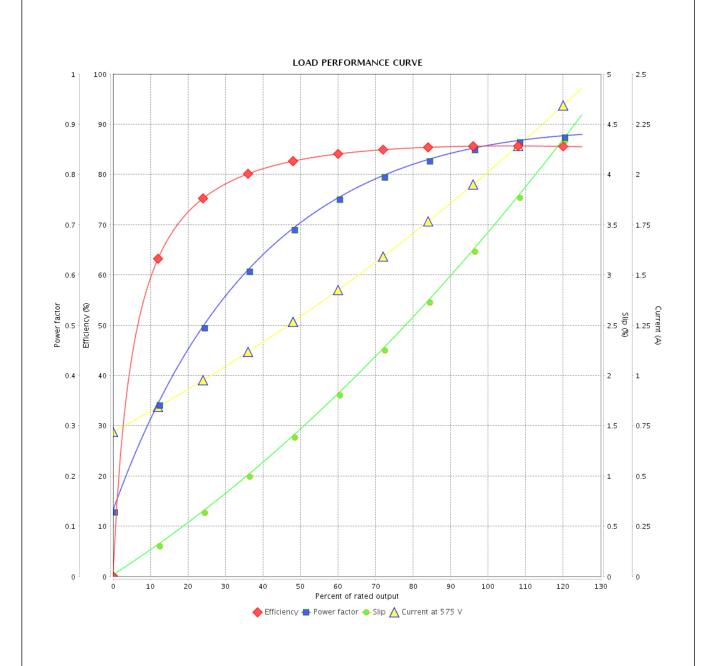
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432605

Phase

Catalog #: 00236ST3HIE145T-W22

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.05 A : 8.9 : 3.02 ft.lb : 350 % : 380 % : 3475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



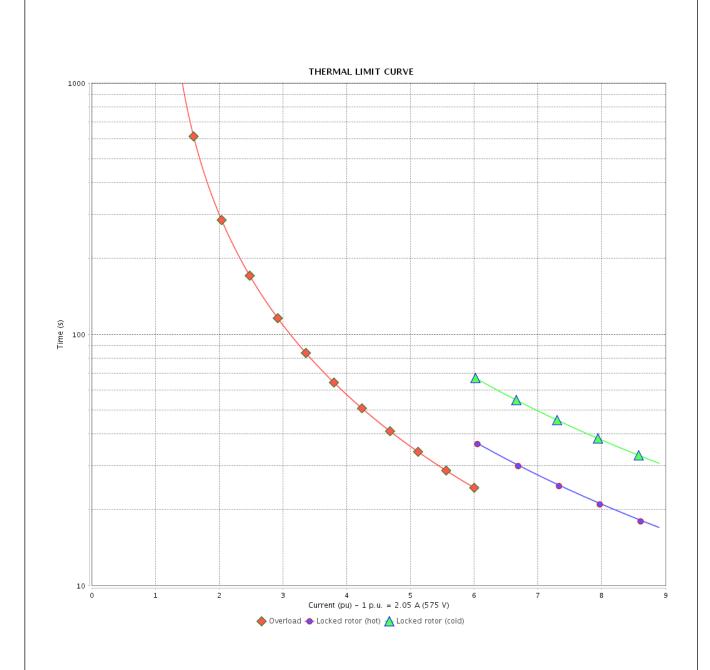
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Product line	: NEMA Premium Efficiency Phase		Product code :	11432605 00236ST3HI	E145T-W22
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Rated current : 2.05 A RC : 8.9		Moment of inertia (J) Duty cycle Insulation class		: 0.0605 sq.ft.lb : Cont.(S1)	
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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 :

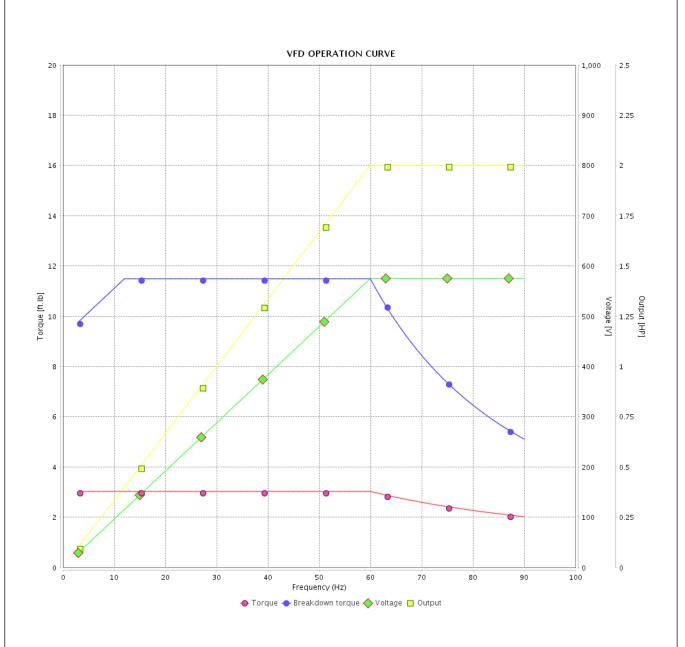
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11432605

Catalog #: 00236ST3HIE145T-W22

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Performance	: 575 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.05 A : 8.9 : 3.02 ft.lb : 350 % : 380 % : 3475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0605 sq.f : Cont.(S1) : F : 1.25 : 80 K : B	t.lb
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