DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11431996 01036ST3HIE215T-W22 Catalog #: Frame : 213/5T Locked rotor time : 43s (cold) 24s (hot) Output : 10 HP (7.5 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 : 9.28 A Protection degree : IP55 L. R. Amperes : 66.8 A Cooling method : IC411 - TEFC LRC : 7.2x(Code H) Mounting : F-1 No load current : 2.72 A Rotation¹ : Both (CW and CCW) Rated speed : 3510 rpm Noise level² : 68.0 dB(A) Starting method Slip : 2.50 % : Direct On Line Rated torque : 15.0 ft.lb Approx. weight³ : 177 lb Locked rotor torque : 220 % Breakdown torque : 290 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.6362 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 90.2 : 156 lb Efficiency (%) 89.3 89.5 90.2 Max. traction Power Factor 0.87 0.90 : 333 lb 0.54 0.79 Max. compression Non drive end Drive end Bearing type 6308 C3 6207 C3 Inpro/Seal Sealing Inpro/Seal Lubrication interval 20000 h 20000 h Lubricant amount 7 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



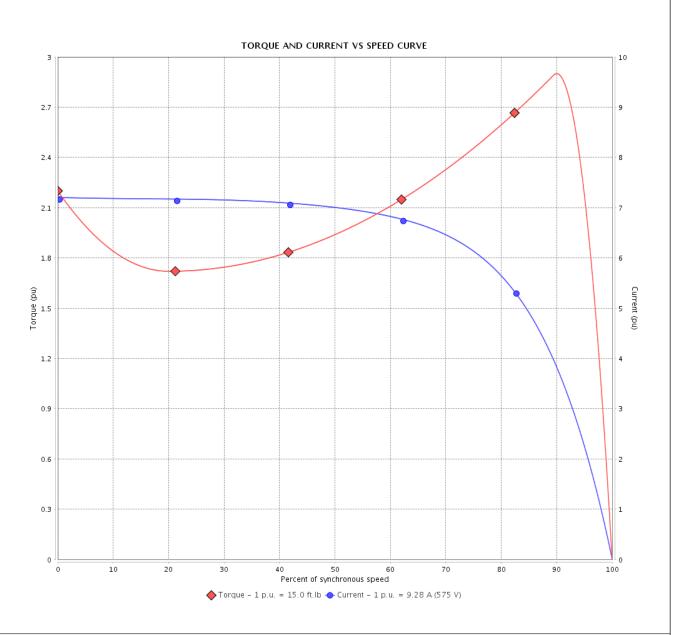
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11431996

Catalog #: 01036ST3HIE215T-W22



Performance : 575 V 60 Hz 2P Rated current : 9.28 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 15.0 ft.lb Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B

Locked rotor time : 43s (cold) 24s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



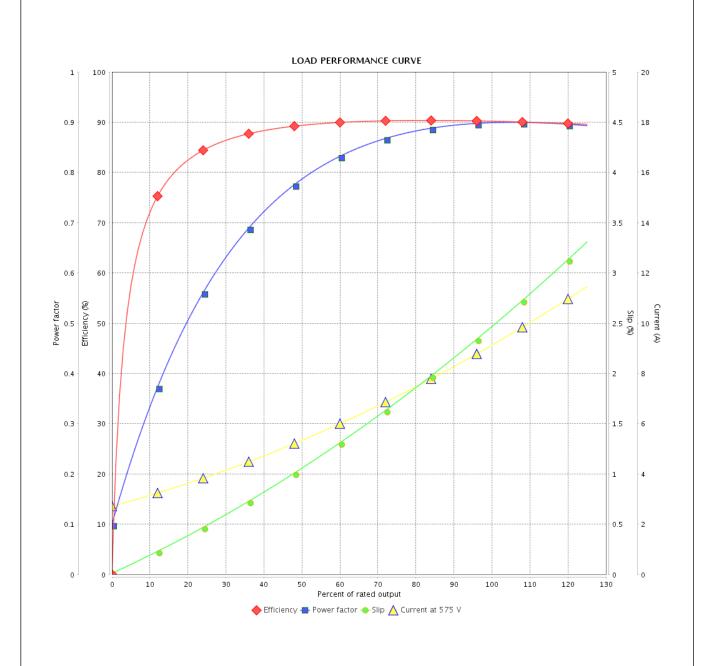
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431996

Phase

Catalog #: 01036ST3HIE215T-W22

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.28 A : 7.2 : 15.0 ft.lb : 220 % : 290 % : 3510 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	ass or	: 0.6362 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



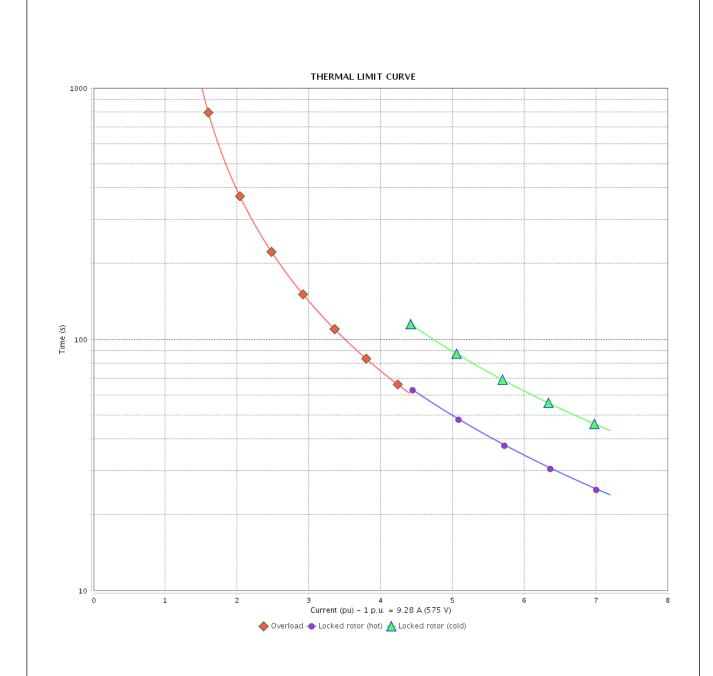
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431996 01036ST3HI	E215T-W22
Performance	: 575 V 60 Hz 2P				
Rated current LRC	: 9.28 A : 7.2	Moment o	f inertia (J)	: 0.6362 sq.ft. : Cont.(S1)	b
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Locked rotor torque : 220 % Breakdown torque : 290 % Rated speed : 3510 rpm		Service factor : 1.25 Temperature rise : 80 K Design : B			
Heating constant					
Cooling constant	Changes Comment		Dorformed	Charles	Dota
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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



Revision

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Customer :

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Date

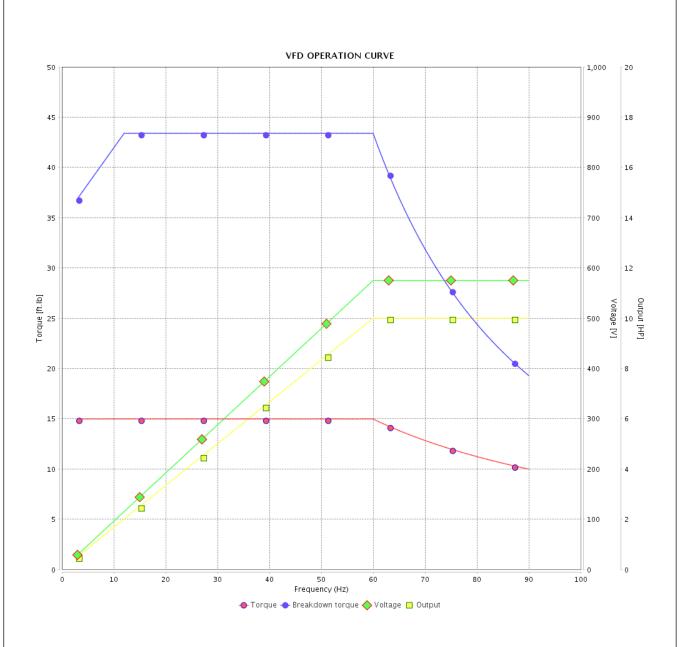
12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431996

Catalog #: 01036ST3HIE215T-W22



Performance : 575 V 60 Hz 2P Rated current : 9.28 A Moment of inertia (J) : 0.6362 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 15.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

