DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer		:				
Product line		: NEN Phas		m Efficiency	Three- Product code : Catalog # :	12603171 00736ST3HIE213T-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 2 : 60 H : 575 : 7.0° : 50.5 : 7.25 : 2.16 : 352 : 2.22 : 11.2 : 210 : 300 : F : 1.25	HP (5.5 kV) Hz V 1 A 5 A K(Code H) 6 A 0 rpm 2 % 2 ft.lb 1 %		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 39s (cold) 22s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 68.0 dB(A) : Direct On Line : 156 lb
Output Efficiency (%)	25% 87.2	50% 87.5	75% 89.5	100% 89.5	Foundation loads Max. traction	: 111 lb
Power Factor	0.52	0.75	0.84	0.88	Max. compression	: 267 lb
Bearing type : 63 Sealing : Inp		63 Inp 20	<u>e end</u> 08 C3 ro/Seal 0000 h 11 g Mo	Non drive end 6207 C3 Inpro/Seal 20000 h 7 g bbil Polyrex EM		
Notes						

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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

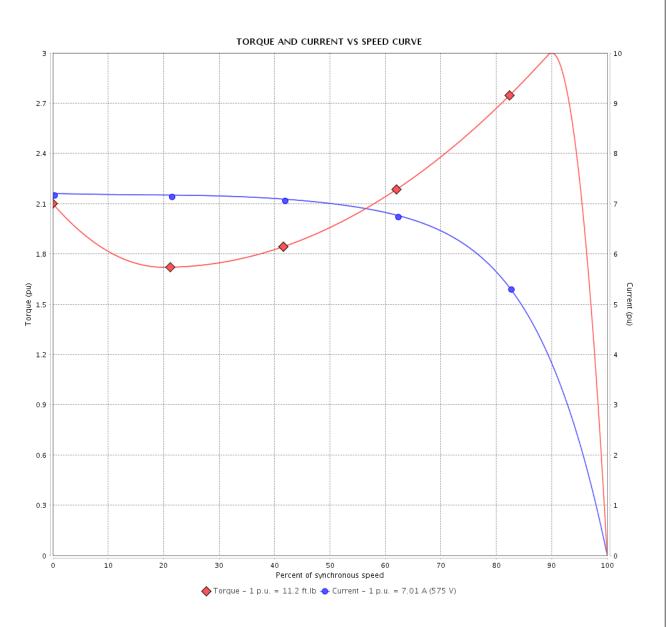
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12603171

Catalog #: 00736ST3HIE213T-W22



Performance : 575 V 60 Hz 2P Rated current : 7.01 A Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 11.2 ft.lb : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3520 rpm Design : B Locked rotor time

: 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



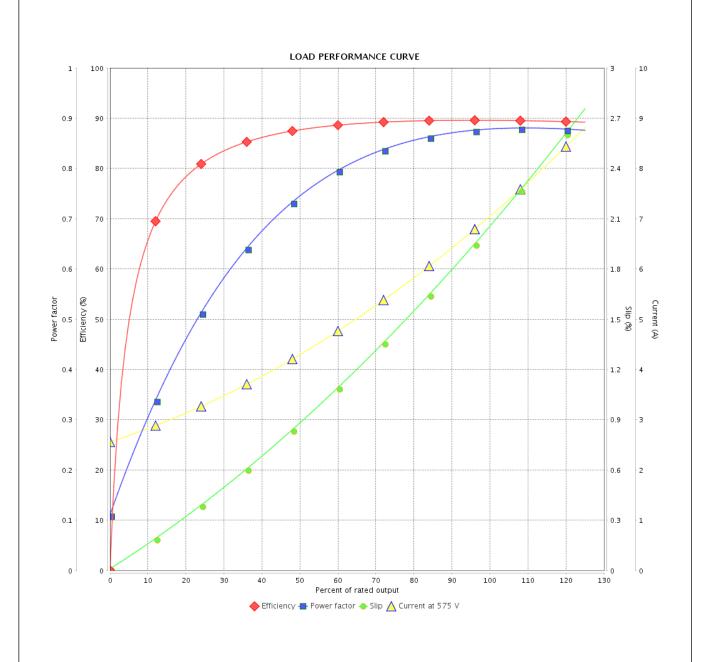
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12603171

Phase

Catalog #: 00736ST3HIE213T-W22

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.01 A : 7.2 : 11.2 ft.lb : 210 % : 300 % : 3520 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 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



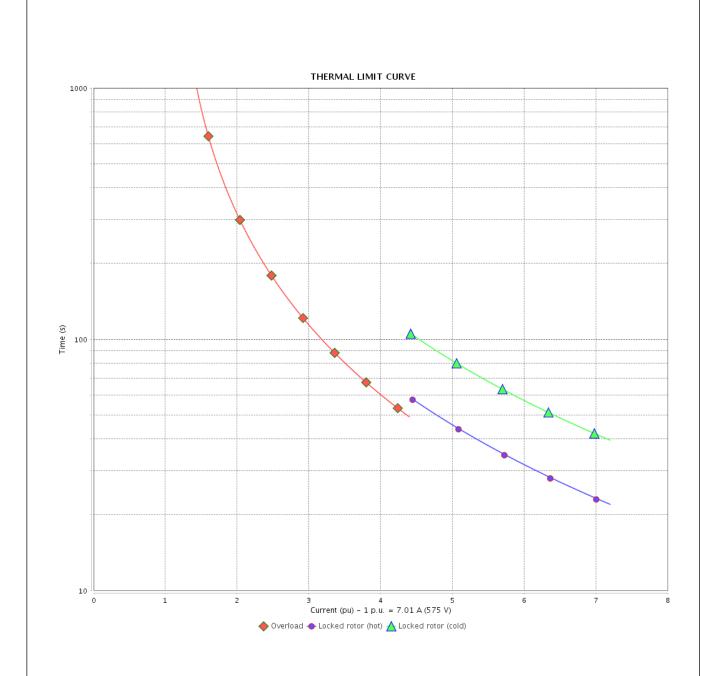
Customer		:				
Product line		: NEMA Premium Efficiency		Product code :	12603171	
		Phase		Catalog # :	00736ST3HIE213T-W22	
Performance Rated current LRC Rated torque Locked rotor toro	lue	: 575 V 60 Hz 2P : 7.01 A : 7.2 : 11.2 ft.lb : 210 %	Duty cycle Insulation Service fa	class ictor	: 0.4665 sq.ft. : Cont.(S1) : F : 1.25	lb
Rated speed Heating constant		: 300 % : 3520 rpm	Temperati Design	uie lise	: 80 K : B	
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 :

Date

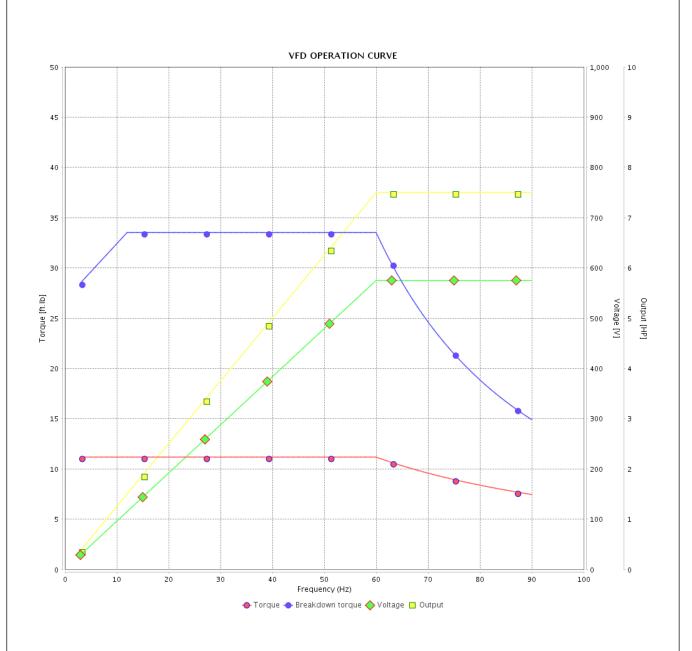
13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12603171

Phase

Catalog #: 00736ST3HIE213T-W22

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Performance : 575 V 60 Hz 2P : 7.01 A Rated current Moment of inertia (J) : 0.4665 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 11.2 ft.lb : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3520 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

