DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11433084 Catalog #: 03012ST3HIE326T-W22 Frame : 324/6T Locked rotor time : 37s (cold) 21s (hot) Output : 30 HP (22 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 : 29.0 A Protection degree : IP55 : 180 A L. R. Amperes Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 11.6 A Rotation¹ : Both (CW and CCW) Rated speed : 1180 rpm Noise level² : 62.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 134 ft.lb Approx. weight³ : 596 lb Locked rotor torque : 220 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 13.2 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 Efficiency (%) 91.5 91.7 93.0 Max. traction : 932 lb Power Factor 0.82 0.42 0.65 0.77 Max. compression : 1528 lb Drive end Non drive end Bearing type 6312 C3 6212 C3 Inpro/Seal Sealing Inpro/Seal Lubrication interval 20000 h 20000 h Lubricant amount 21 g 13 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



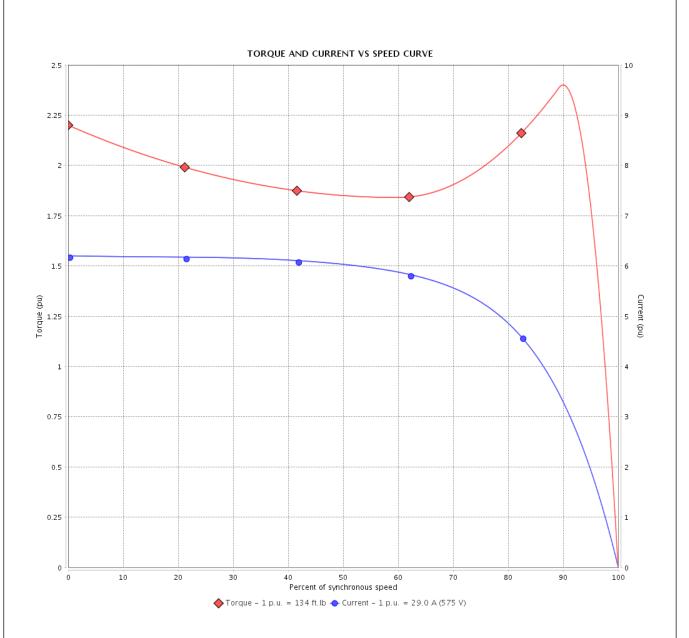
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03012ST3HIE326T-W22

11433084



Performance : 575 V 60 Hz 6P Rated current : 29.0 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 134 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 11433084

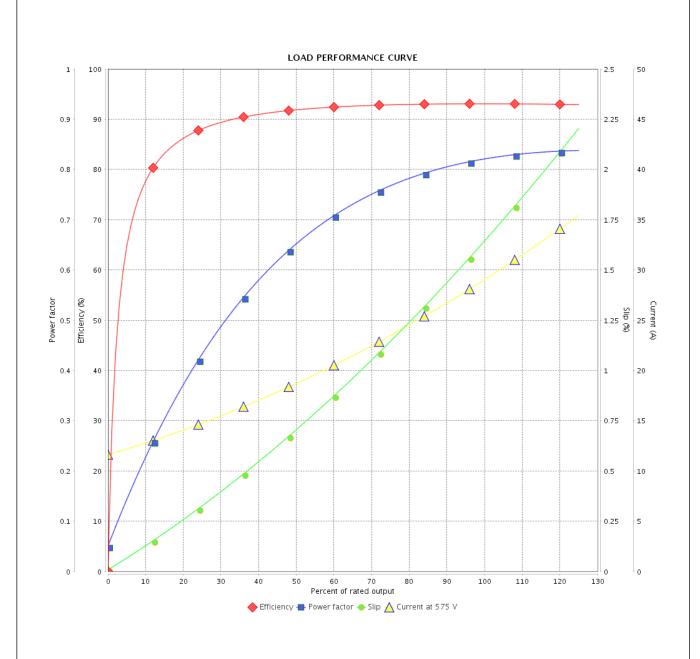
Phase

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Performance	: 575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.0 A : 6.2 : 134 ft.lb : 220 % : 240 % : 1180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



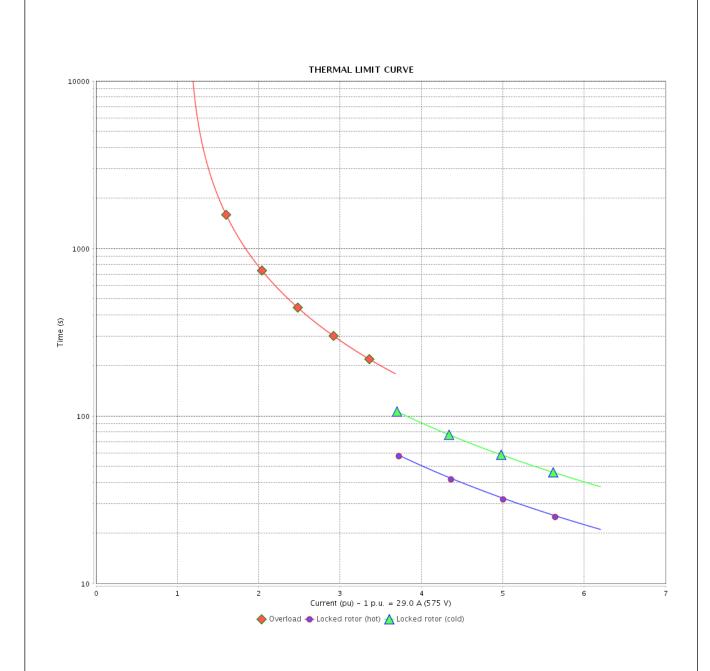
Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11433084	
	PI	hase		Catalog # :	03012ST3HIE	:326T-W22
Danfanna an a		75 \				
Performance Rated current		75 V 60 Hz 6P 9.0 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6.	2	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque		34 ft.lb 20 %	Insulation Service fa		: F : 1.25	
Breakdown torque		40 %	Temperatu	ure rise	: 80 K	
Rated speed	: 11	180 rpm	Design		: B	
Heating constant Cooling constant						
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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 :

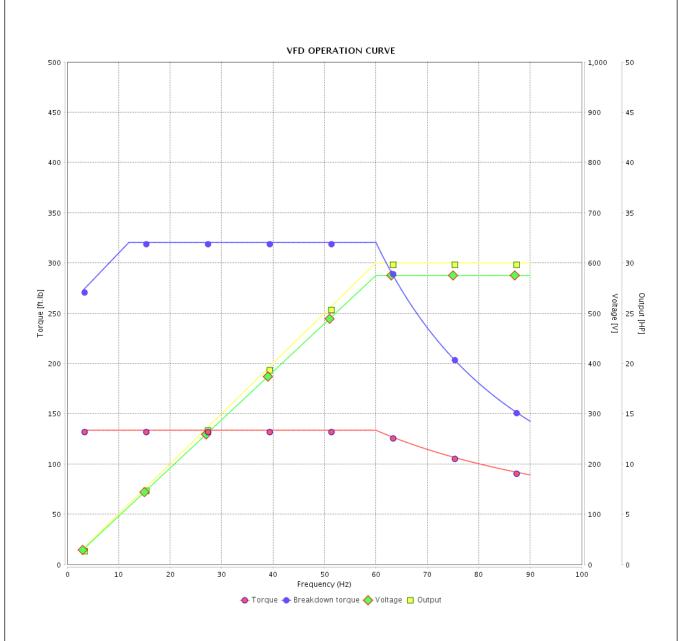
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11433084

Catalog #: 03012ST3HIE326T-W22

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Performance	: 575 V 60 Hz 6P				
Rated current	: 29.0 A	Moment of inertia (J)		: 13.2 sq.ft.lb	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class		: F	
Locked rotor torque	: 220 %	Service factor		: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1180 rpm	Design		: B	
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