DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: NEMA Premium Efficiency T Phase			Three- Product code : Catalog # :		13585401 04036ST3HIE324TS-W22
						Catalog # .	04030313111232413-7722
Frame Output Poles		: 40 H : 2	: 324/6TS : 40 HP (30 kW) : 2			ed rotor time erature rise cycle	: 81s (cold) 45s (hot) : 80 K : Cont.(S1)
Frequency		: 60 H				ent temperature	: -20°C to +40°C
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)		: 37.0 : 233 : 6.3> : 8.80 : 355 : 1.25 : 59.1 : 250 : 240 : F	: 575 V : 37.0 A : 233 A : 6.3x(Code G) : 8.80 A : 3555 rpm : 1.25 % : 59.1 ft.lb : 250 % : 240 % : F : 1.25 : 4.90 sq.ft.lb		Altitude Protection degree Cooling method Mounting Rotation ¹ Noise level ² Starting method Approx. weight ³		: 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 76.0 dB(A) : Direct On Line : 534 lb
Design	25%	50%	75%	100%	Founda	tion loads	
Output Efficiency (%) Power Factor	91.5 0.58	91.7 0.80	92.4 0.86	92.4 0.88	Max. tra		: 277 lb : 811 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	<u>Drive end</u> 6312 C3 Inpro/Seal 12000 h 21 g		Non drive end 6212 C3 Inpro/Seal 15000 h 13 g Iobil Polyrex EM		
Notes							

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.

Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

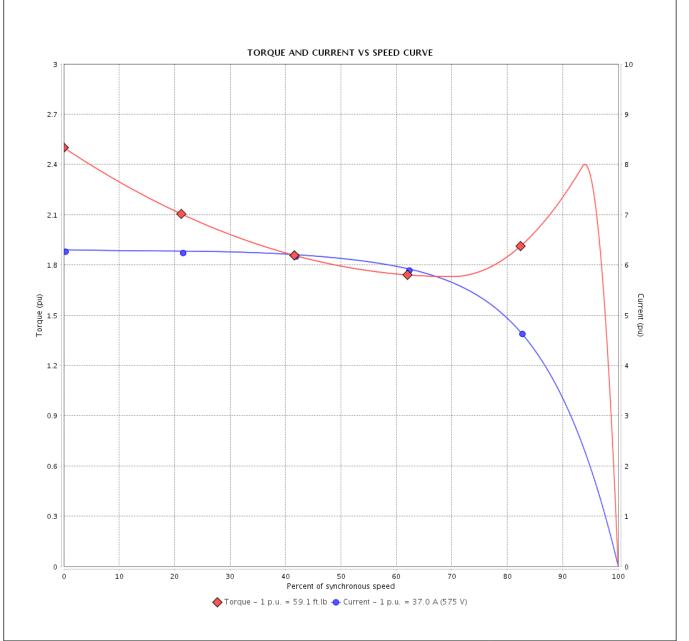


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13585401

Phase

Catalog #: 04036ST3HIE324TS-W22



Performance : 575 V 60 Hz 2P Rated current : 37.0 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.1 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 81s (cold) 45s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



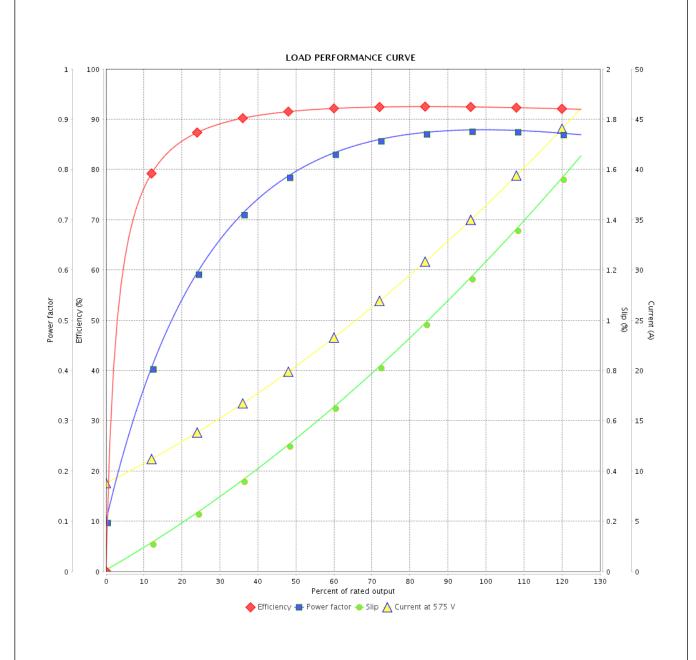
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13585401

Phase

Catalog #: 04036ST3HIE324TS-W22

3/6



Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.0 A : 6.3 : 59.1 ft.lb : 250 % : 240 % : 3555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.90 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				_	
Checked by				Page	Revision

12/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



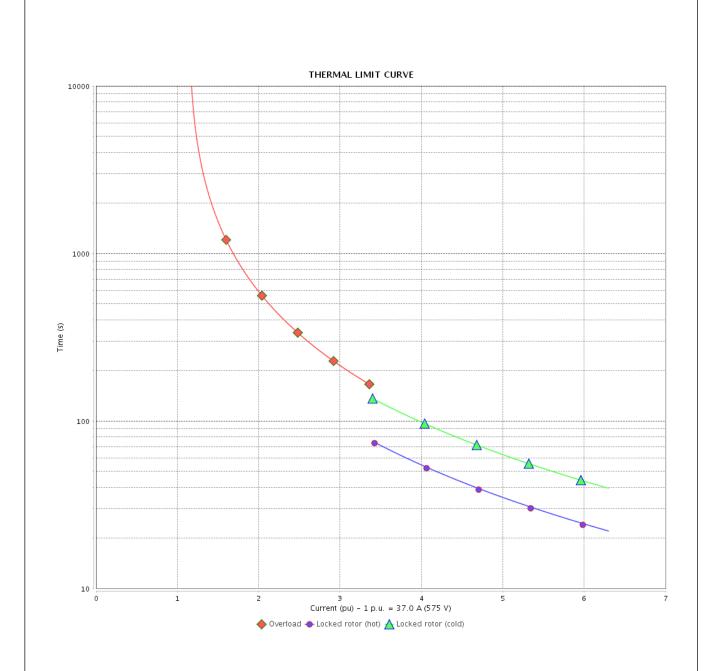
Customer	:			
Product line	: NEMA Premium Efficiency T Phase		13585401	DATE WOO
		Catalog # :	04036ST3HIE32	2415-7722
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Performance	: 575 V 60 Hz 2P	Mamont of incretic (1)	. 4 00 55 515	
Rated current LRC	: 37.0 A : 6.3	Moment of inertia (J) Duty cycle	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque	: 59.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 % : 240 %	Service factor	: 1.25 : 80 K	
Breakdown torque Rated speed	: 240 % : 3555 rpm	Temperature rise Design	: 80 K : B	
	•			
Heating constant Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by			<u> </u>	
Checked by			Page	Revision
Data 12/04/2	022		1/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

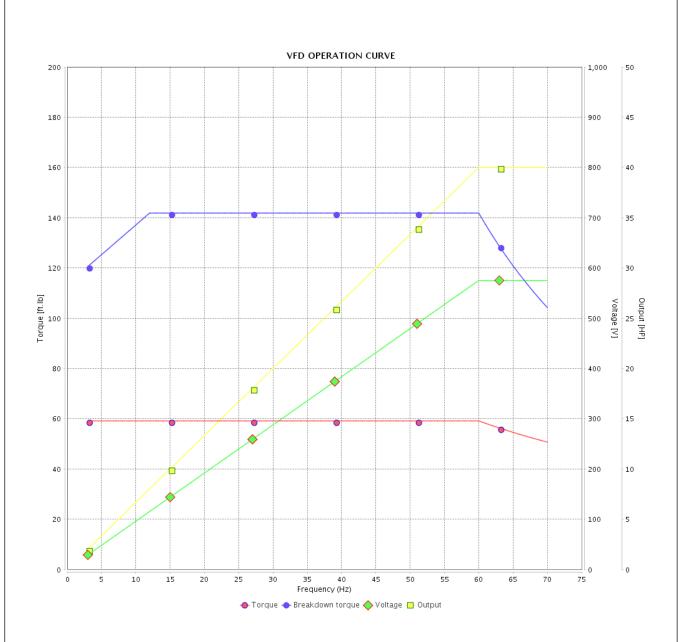
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Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 13585401

Catalog #: 04036ST3HIE324TS-W22



Performance : 575 V 60 Hz 2P : 37.0 A Rated current Moment of inertia (J) : 4.90 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : 59.1 ft.lb : F Rated torque Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

