## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line			: NEMA Premium Efficiency T Phase			Product code : Catalog # :	11434561 10036ST3HIE405TS-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 : 89.6 : 582 : 6.5> : 20.8 : 354 : 1.53 : 148 : 240 : 260 : F	HP (75 kV Hz V 6 A A ((Code G) 8 A 5 rpm 3 % ft.lb %	V)	Tempe Duty of Ambie Altitud Protec Coolir Mount Rotati Noise Startir	ent temperature le ction degree ng method ting on <sup>1</sup>	: 25s (cold) 14s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 79.0 dB(A) : Direct On Line : 1126 lb
Output	25%	50%	75%	100%	Founda	tion loads	
Efficiency (%)	92.8	93.0	94.1	94.1	Max. tra		: 593 lb
Power Factor	0.61	0.83	0.88	0.89	Max. co	mpression	: 1719 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	<u>Drive end</u> : 6314 C3 : Inpro/Seal : 4000 h : 27 g : Mo		Non drive end 6314 C3 Inpro/Seal 4000 h 27 g Mobil Polyrex EM		3 al

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



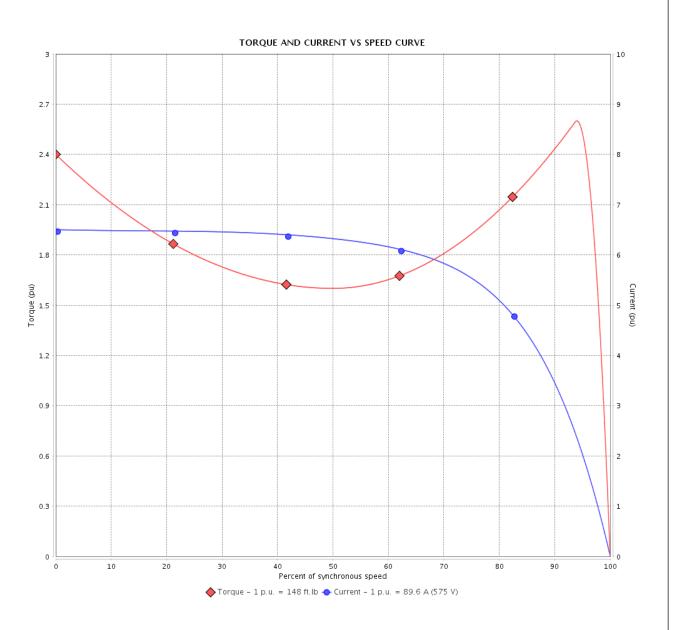
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10036ST3HIE405TS-W22

11434561



Performance	: 575 V 60 Hz 2P		
Rated current	: 89.6 A	Moment of inertia (J)	: 13.2 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 148 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B
Locked rotor time	: 25s (cold) 14s (hot)		

Locked rotor time : 25s (cold) 14s (hot)

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# LOAD PERFORMANCE CURVE

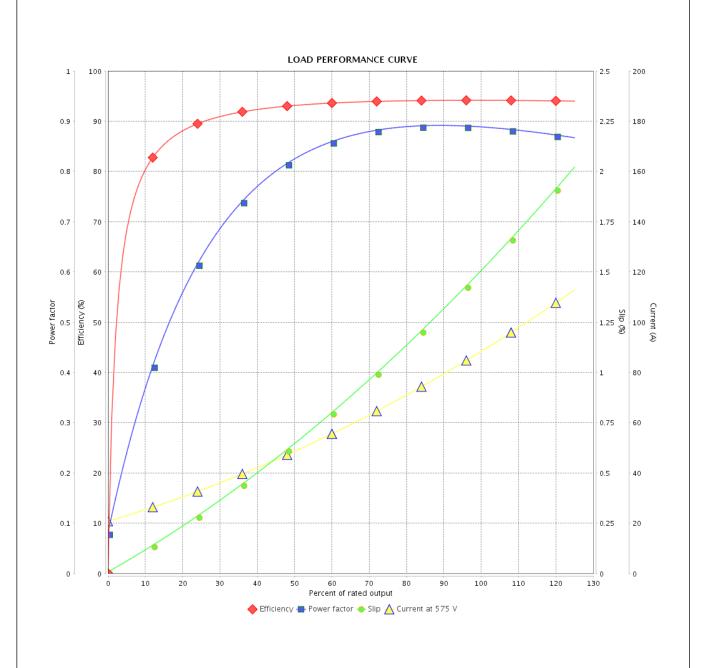
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11434561

Catalog #: 10036ST3HIE405TS-W22



Performance	: 5	: 575 V 60 Hz 2P						
Rated current	: 8	: 89.6 A Moment of ir		f inertia (J)	: 13.2 sq.ft.lb			
LRC	: 6	6.5	Duty cycle	<b>;</b>	: Cont.(S1)			
Rated torque		148 ft.lb	Insulation class		:F			
Locked rotor torqu	ie : 2	240 %	Service fa	Service factor				
Breakdown torque	: 2	: 260 % : 3545 rpm		Temperature rise Design				
Rated speed	: 3							
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



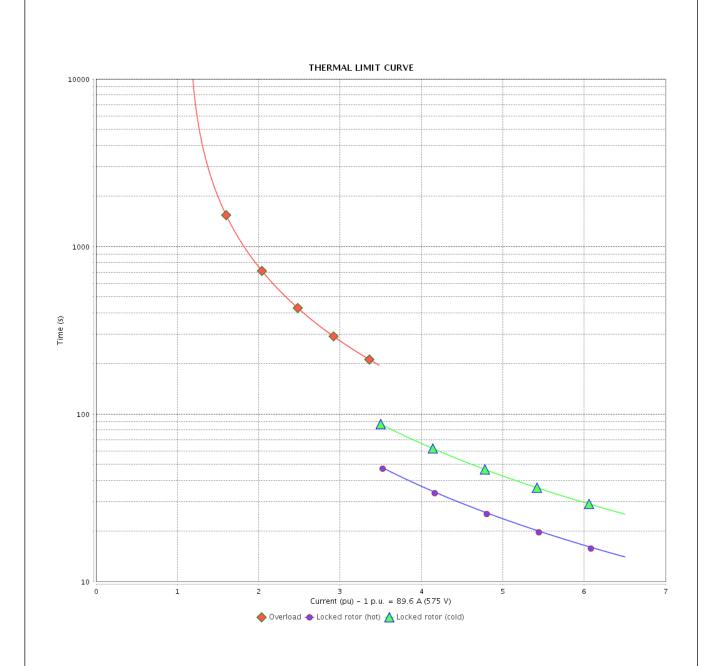
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11434561 10036ST3HIE	E405TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 575 V 60 Hz 2P : 89.6 A : 6.5 : 148 ft.lb : 240 % : 260 % : 3545 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant 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 :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

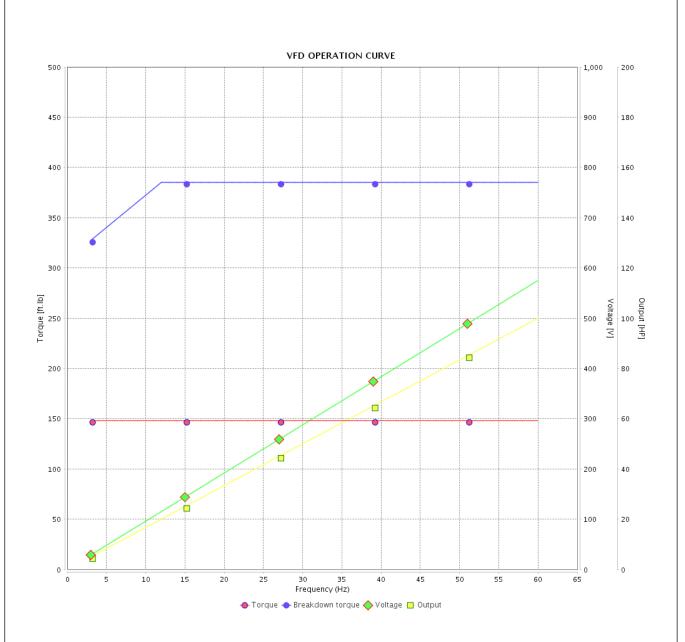
Product code: 11434561

Catalog #: 10036ST3HIE405TS-W22

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Revision



5 (	575.1/00.11.00				
Performance	: 575 V 60 Hz 2P				
Rated current	: 89.6 A	: 89.6 A Moment of in		f inertia (J) : 13.2 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 148 ft.lb	Insulation class		: F	
Locked rotor torque	: 240 %	Service factor		: 1.25	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 3545 rpm	Design		: B	
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