## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: NEN Phas		n Efficiency <sup>-</sup>		Product code : Catalog # :	13906220 03036ST3HIE286TS-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 : 27.7 : 174 : 6.35 : 7.92 : 354 : 1.67 : 44.5 : 240 : 250 : F	HP (22 kW) Hz V 7 A A ((Code G) 2 A 0 rpm 7 % 5 ft.lb %		Temper Duty cy Ambier Altitude Protect Cooling Mountin Rotatio Noise In Starting	nt temperature e ion degree g method ng n <sup>1</sup>	: 27s (cold) 15s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 72.0 dB(A) : Direct On Line : 402 lb
Output Efficiency (%)	25% 91.6	50% 91.7	75% 91.7	100% 91.7	Foundation		: 284 lb
Power Factor	0.54	0.77	0.85	0.87	Max. com		: 686 lb
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		: : : :	Inpro 140	11 C3 o/Seal 000 h 8 g	obil Polyrex	Non drive end 6211 C3 Inpro/Seal 17000 h 11 g	
Mata							

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

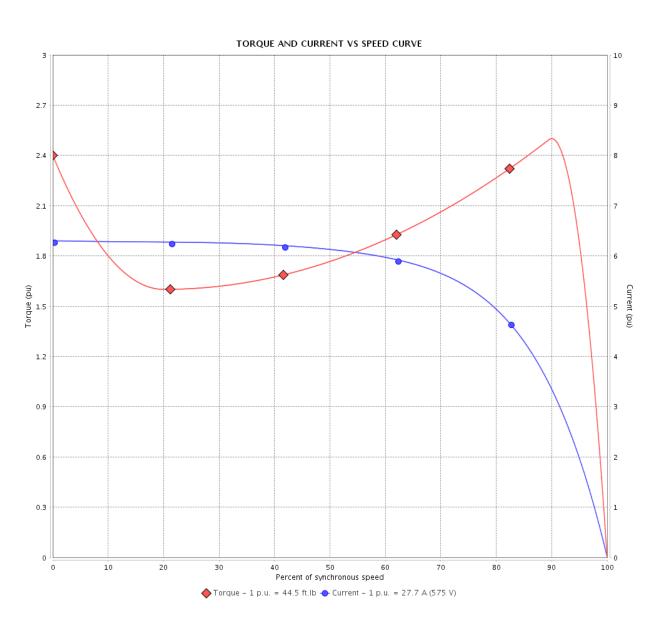


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13906220

Phase

Catalog #: 03036ST3HIE286TS-W22



Performance	: 575 V 60 Hz 2P		
Rated current	: 27.7 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 44.5 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3540 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)		

Locked rotor time : 27s (cold) 15s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

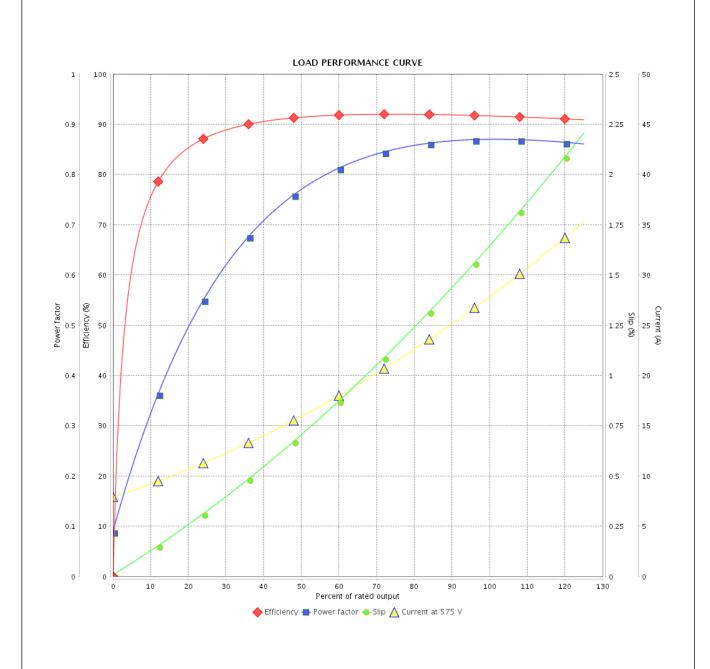


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13906220

Phase

Catalog #: 03036ST3HIE286TS-W22



Performance		: 575 V 60 Hz 2P						
Rated current		27.7 A	Moment o	Moment of inertia (J)				
LRC : 6		6.3	Duty cycle	Duty cycle				
Rated torque	:	44.5 ft.lb	Insulation	class	: Cont.(S1) : F			
Locked rotor torque		240 %	Service fa	ctor	: 1.25			
Breakdown torque	e :	250 %	Temperati	Temperature rise				
Rated speed	:	Design		: B				
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



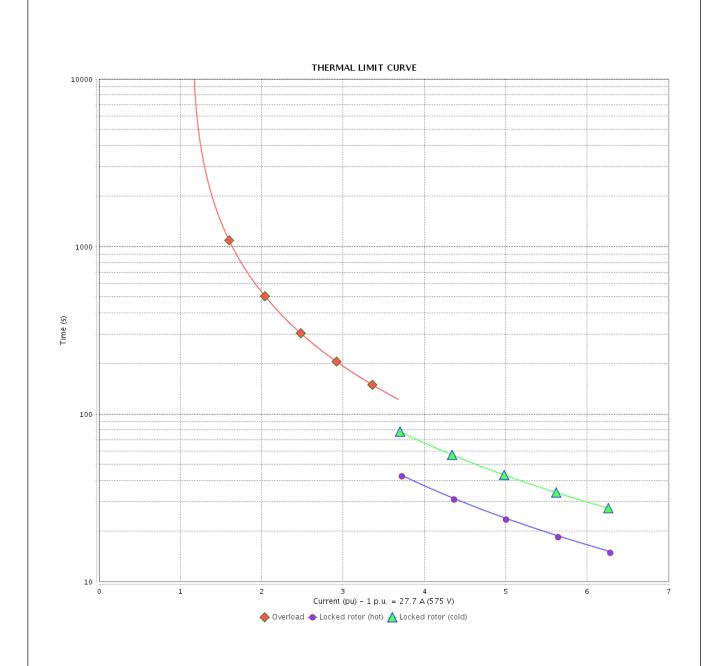
Customer	:				
Product line	: NEMA Premium Effici Phase		Product code : Catalog # :	13906220 03036ST3HIE	E286TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 575 V 60 Hz 2P : 27.7 A : 6.3 : 44.5 ft.lb : 240 % : 250 % : 3540 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	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

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

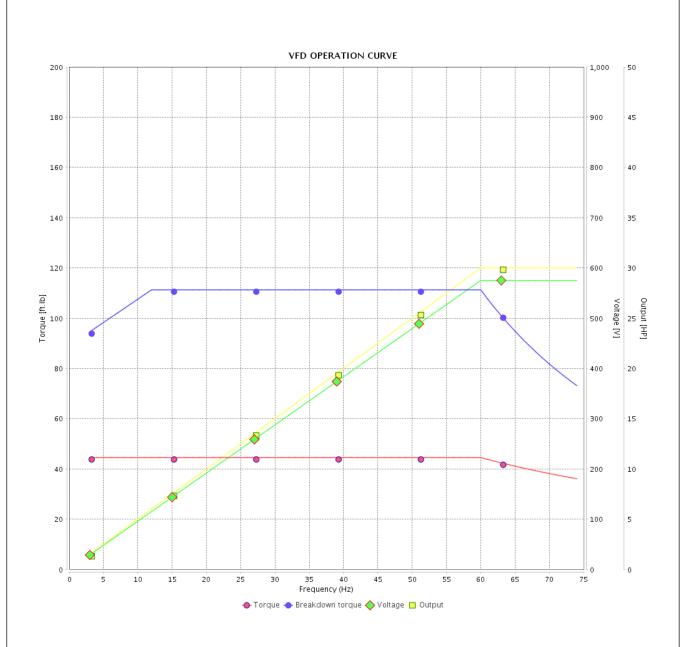
Product code: 13906220

Catalog #: 03036ST3HIE286TS-W22

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Revision



Performance	: 575 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.7 A : 6.3 : 44.5 ft.lb : 240 % : 250 % : 3540 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
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