### **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: NEN Phas		n Efficiency	Three- Product code : Catalog #:	13533095 00318ST3HIE182TC-W22	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torqu Insulation class Service factor Moment of inertic	ie	: 3 H : 4 : 60 F : 575 : 3.13 : 25.3 : 8.15 : 1.60 : 176 : 2.22 : 8.95 : 229 : 340 : F : 1.25	V 3 A 3 A 4 (Code K) 0 A 0 rpm 2 % 5 ft.lb		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 41s (cold) 23s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 56.0 dB(A) : Direct On Line : 104 lb	
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	86.4	87.5	88.5	89.5	Max. traction	: 142 lb	
Power Factor	0.36	0.61	0.73	0.79	Max. compression	: 246 lb	
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : : : : : : : : : : : : : : : : : :	620 Inpr 20	e end 07 C3 ro/Seal 000 h 7 g	Non drive end 6206 C3 Inpro/Seal 20000 h 5 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.

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

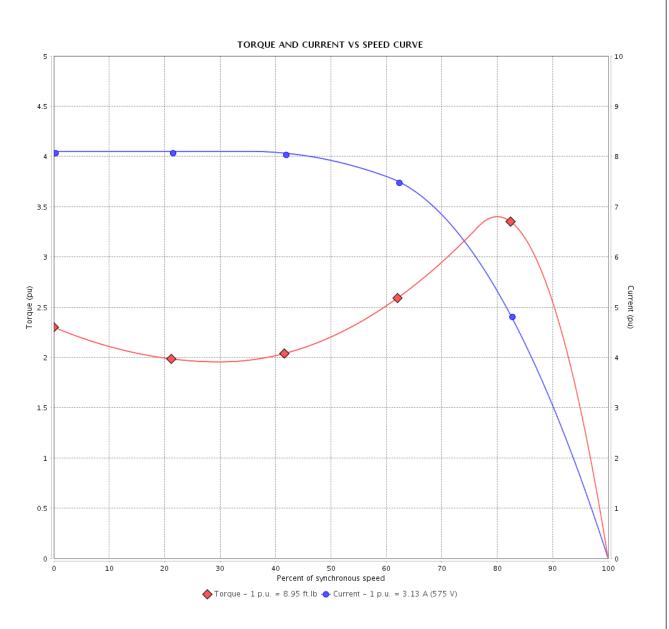


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13533095

Phase

Catalog #: 00318ST3HIE182TC-W22



Performance : 575 V 60 Hz 4P Rated current : 3.13 A Moment of inertia (J) : 0.3401 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 8.95 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Locked rotor time : 41s (cold) 23s (hot)

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



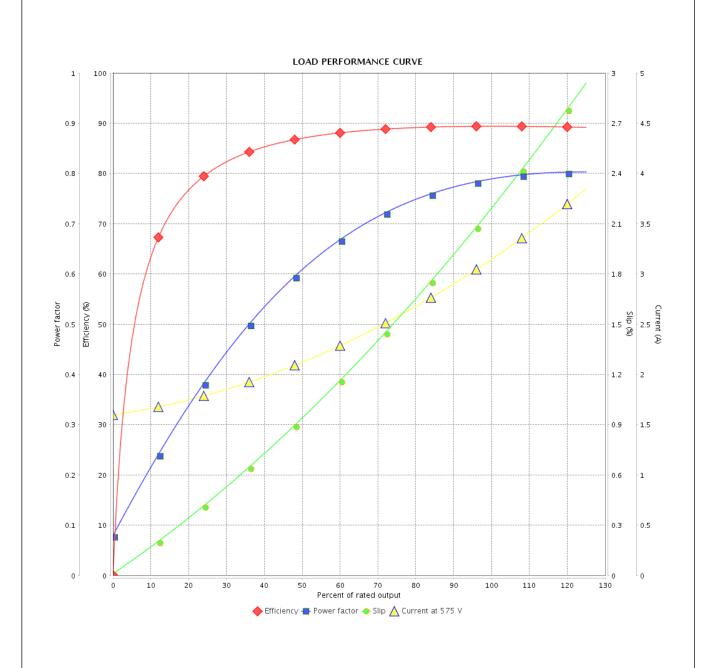
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13533095

Phase

Catalog #: 00318ST3HIE182TC-W22

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Performance	: 575 V 60 Hz 4P						
Rated current	: 3.13 A	Moment of inertia	Moment of inertia (J)		: 0.3401 sq.ft.lb		
LRC	: 8.1	Duty cycle		: Cont.(S1)			
Rated torque	: 8.95 ft.lb	Insulation class	Insulation class Service factor				
Locked rotor torque	: 229 %	Service factor					
Breakdown torque	: 340 %	Temperature rise Design		: 80 K : B			
Rated speed	: 1760 rpm						
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Date

## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



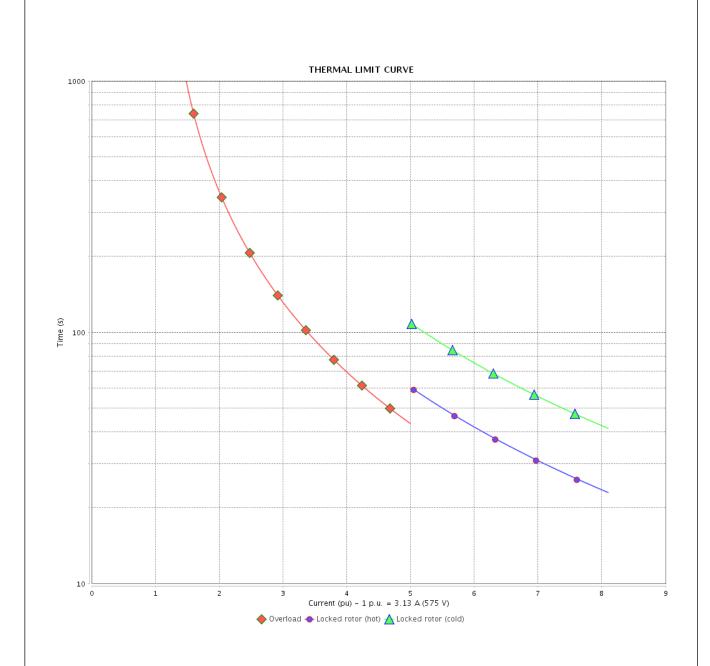
Customer	:					
Product line		NEMA Premium Efficienc		Product code :	13533095 00318ST3HII	E182TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 3. : 8. : 8. : 22 : 34	75 V 60 Hz 4P .13 A .1 .95 ft.lb .29 % 40 % 760 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.3401 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
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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

01/06/2022

Product line : NEMA Premium Efficiency Three- Product code : 13533095

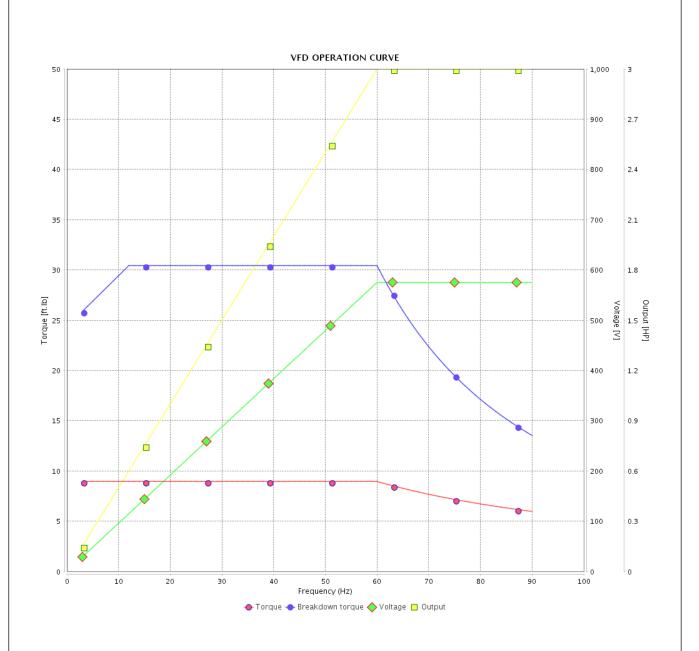
Phase

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Revision



: 57	75 V 60 Hz 4P				
: 8. : 8. que : 22 ue : 34	: 8.1 Duty cycle : 8.95 ft.lb Insulation : 229 % Service far : 340 % Temperatu		class ctor	: 0.3401 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Changes Summary		<u>'</u>	Performed	Checked	Date
	: 3 : 8 : 8 : 2 : que : 3	ie : 340 % : 1760 rpm	: 3.13 A Moment o : 8.1 Duty cycle : 8.95 ft.lb Insulation que : 229 % Service fa ue : 340 % Temperatu : 1760 rpm Design	: 3.13 A Moment of inertia (J) : 8.1 Duty cycle : 8.95 ft.lb Insulation class que : 229 % Service factor ue : 340 % Temperature rise : 1760 rpm Design	: 3.13 A       Moment of inertia (J)       : 0.3401 sq.ft.         : 8.1       Duty cycle       : Cont.(S1)         : 8.95 ft.lb       Insulation class       : F         que       : 229 %       Service factor       : 1.25         ue       : 340 %       Temperature rise       : 80 K         : 1760 rpm       Design       : B

