### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13533093 Catalog #: 00318ST3HIE182T-W22 Frame : 182/4T Locked rotor time : 41s (cold) 23s (hot) Output : 3 HP (2.2 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 : 3.13 A Protection degree : IP55 L. R. Amperes : 25.3 A Cooling method : IC411 - TEFC LRC : 8.1x(Code K) Mounting : F-1 No load current : 1.60 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1760 rpm Noise level<sup>2</sup> : 56.0 dB(A) Starting method Slip : 2.22 % : Direct On Line Rated torque : 8.95 ft.lb Approx. weight<sup>3</sup> : 109 lb Locked rotor torque : 229 % Breakdown torque : 340 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.3401 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 87.5 88.5 : 140 lb Efficiency (%) 89.5 Max. traction Power Factor : 249 lb 0.61 0.73 0.79 Max. compression Non drive end Drive end Bearing type 6207 C3 6206 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 7 g 5 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

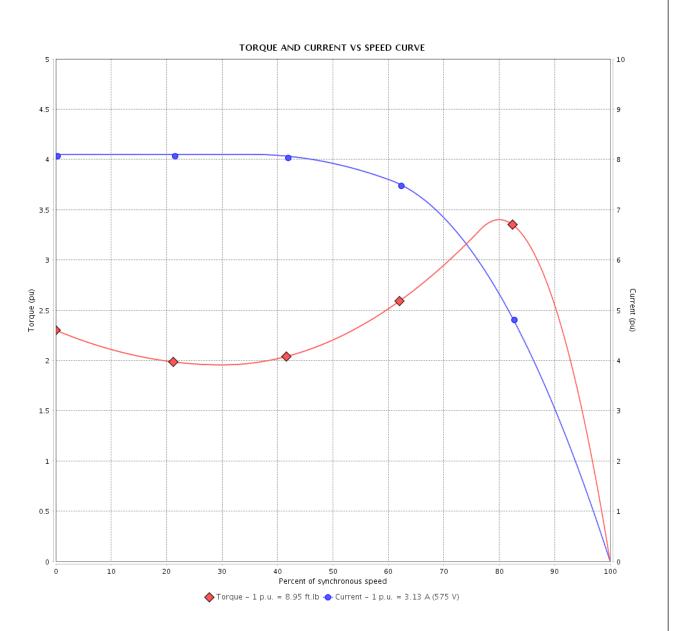
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13533093

Catalog #: 00318ST3HIE182T-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

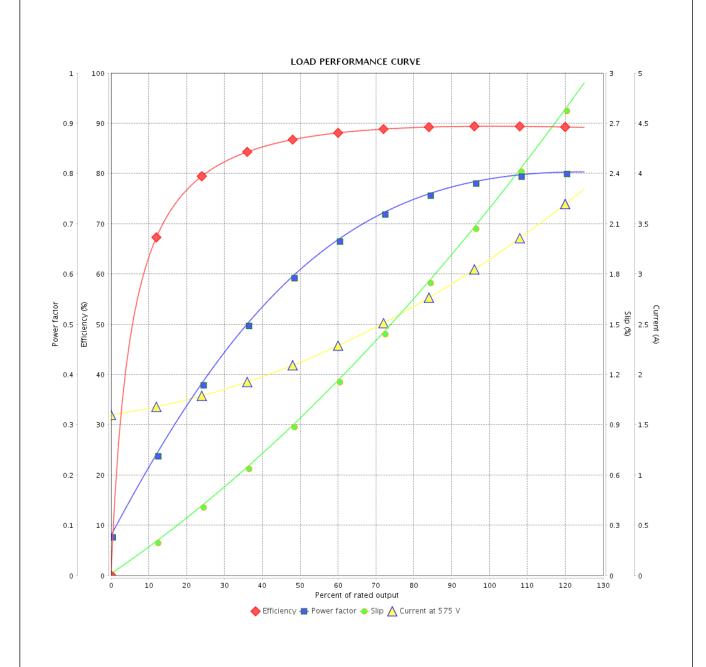
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00318ST3HIE182T-W22

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13533093



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

# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



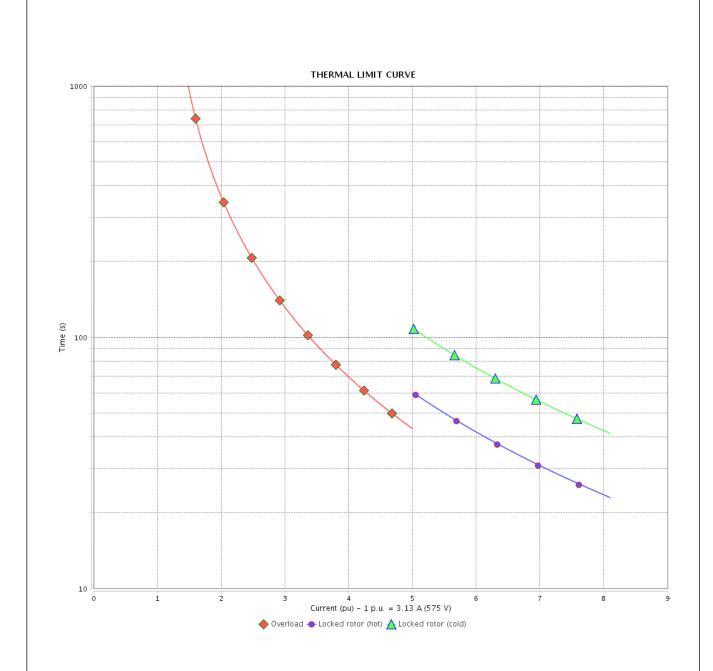
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	13533093 00318ST3HI	E182T-W22
Performance	: 575 V 60 Hz 4P				
Rated current LRC	: 3.13 A : 8.1	Duty cycle	f inertia (J)	: 0.3401 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor torque	: 8.95 ft.lb : 229 %	Insulation Service fa	ctor	: F : 1.25	
Breakdown torque Rated speed	: 340 % : 1760 rpm	Temperatu Design	ure rise	: 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



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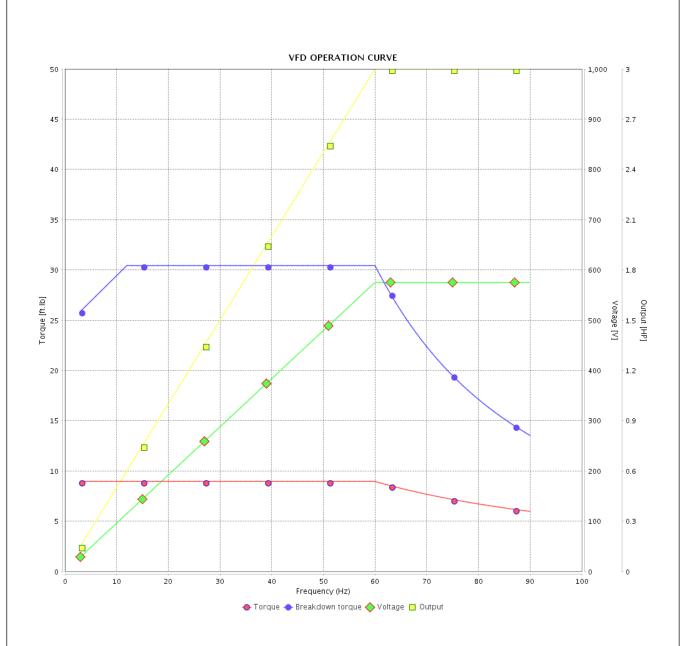
Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 13533093

Phase

Catalog #: 00318ST3HIE182T-W22



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

