### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13332153 Catalog #: 00518ST3HIE184TC-W22 Frame : 182/4TC Locked rotor time : 50s (cold) 28s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 575 V Altitude Rated current : 5.19 A Protection degree : IP55 L. R. Amperes : 40.0 A Cooling method : IC411 - TEFC LRC : 7.7x(Code J) Mounting : F-1 No load current : 2.32 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1750 rpm Noise level<sup>2</sup> : 56.0 dB(A) Starting method Slip : 2.78 % : Direct On Line Rated torque : 15.0 ft.lb Approx. weight<sup>3</sup> : 113 lb Locked rotor torque : 229 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.4003 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 89.5 : 231 lb Efficiency (%) 88.2 88.5 89.5 Max. traction Power Factor 0.74 0.80 : 344 lb 0.38 0.62 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



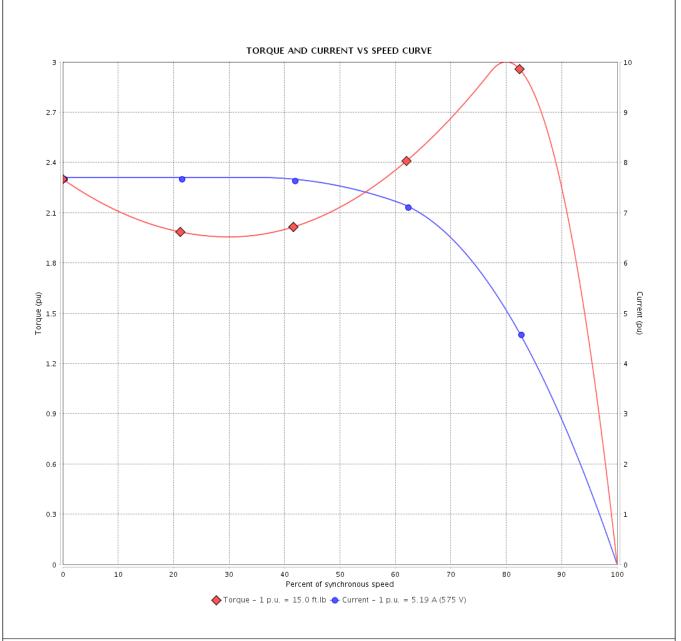
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13332153

Catalog #: 00518ST3HIE184TC-W22



Performance : 575 V 60 Hz 4P Rated current : 5.19 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 15.0 ft.lb Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 50s (cold) 28s (hot)

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

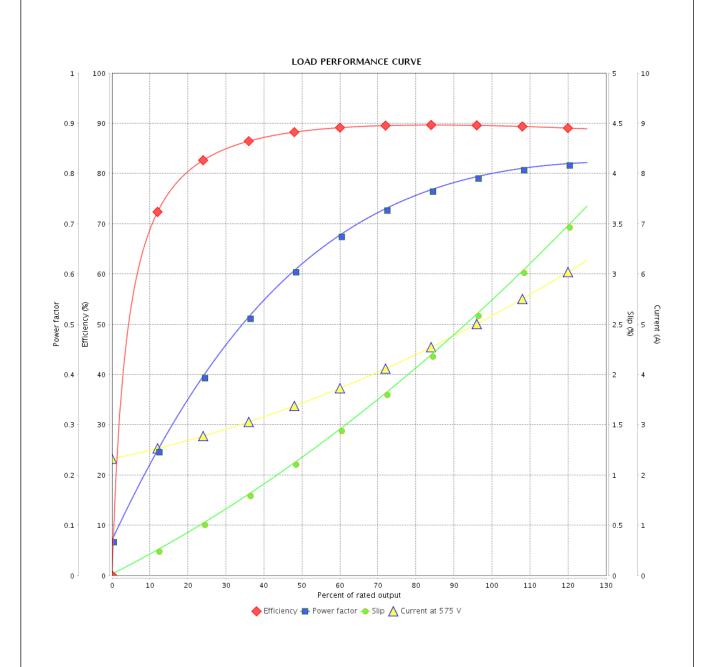


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13332153

Phase

Catalog #: 00518ST3HIE184TC-W22



Performance	: 5	575 V 60 Hz 4P					
Rated current	: 5	19 A Moment of inertia (J)		: 0.4003 sq.ft.lb			
LRC	: 7	7.7	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 1	15.0 ft.lb Insulation class		class	: F : 1.25 : 80 K		
Locked rotor torqu	ie : 2	229 %					
Breakdown torque	: 3	300 %					
Rated speed	: 1750 rpm		Design	Design			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



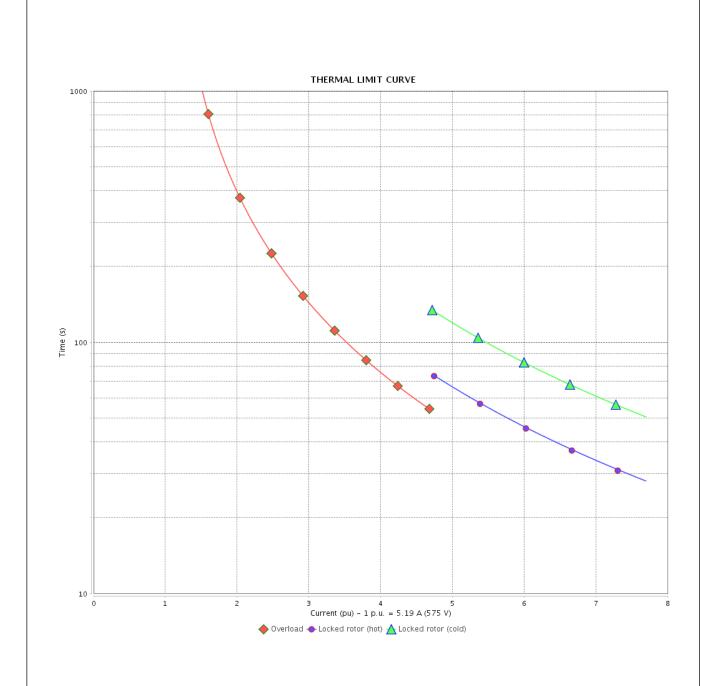
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	13332153 00518ST3HII	E184TC-W22
Performance	: 575 V 60 Hz 4P				
Rated current LRC	: 5.19 A : 7.7	Moment of Duty cycle	f inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor torque	: 15.0 ft.lb : 229 %	Insulation Service fa	class	: F : 1.25	
Breakdown torque Rated speed	: 300 % : 1750 rpm	Temperatu Design		: 80 K : B	
Heating constant	. 17 ου τριτι	Design		. U	
Cooling constant					
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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



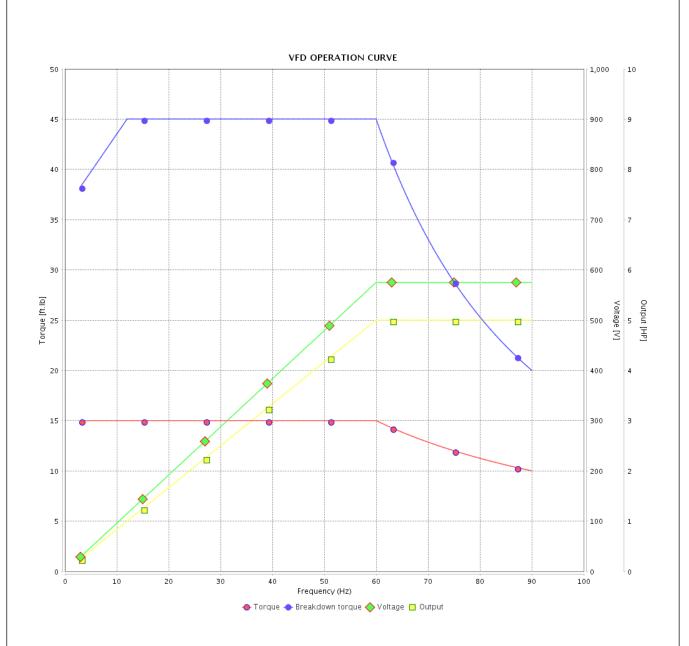
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13332153

Catalog #: 00518ST3HIE184TC-W22



Performance : 575 V 60 Hz 4P Rated current : 5.19 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 15.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

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