DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 15958316 Catalog #: 00318ST3PIE182TC-W22 Frame : 182/4TC 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 : 200 V : 1000 m.a.s.l. Altitude Rated current : 8.99 A Protection degree : IP55 L. R. Amperes : 72.8 A Cooling method : IC411 - TEFC LRC : 8.1x(Code K) Mounting : F-1 No load current : 4.60 A Rotation¹ : Both (CW and CCW) Rated speed : 1760 rpm Noise level² : 56.0 dB(A) Starting method Slip : 2.22 % : Direct On Line Rated torque : 8.95 ft.lb Approx. weight³ : 2.2 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 : 193 lb Efficiency (%) 89.5 Max. traction Power Factor : 195 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

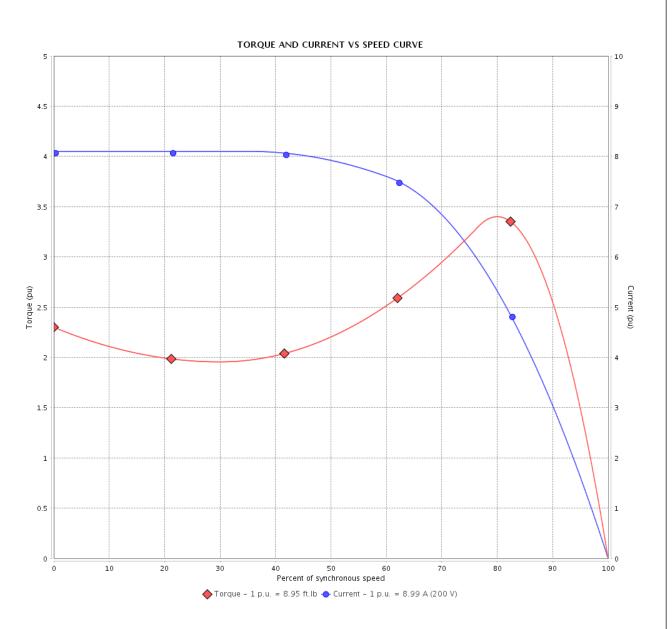
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 15958316

Catalog #: 00318ST3PIE182TC-W22



Performance : 200 V 60 Hz 4P Rated current : 8.99 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

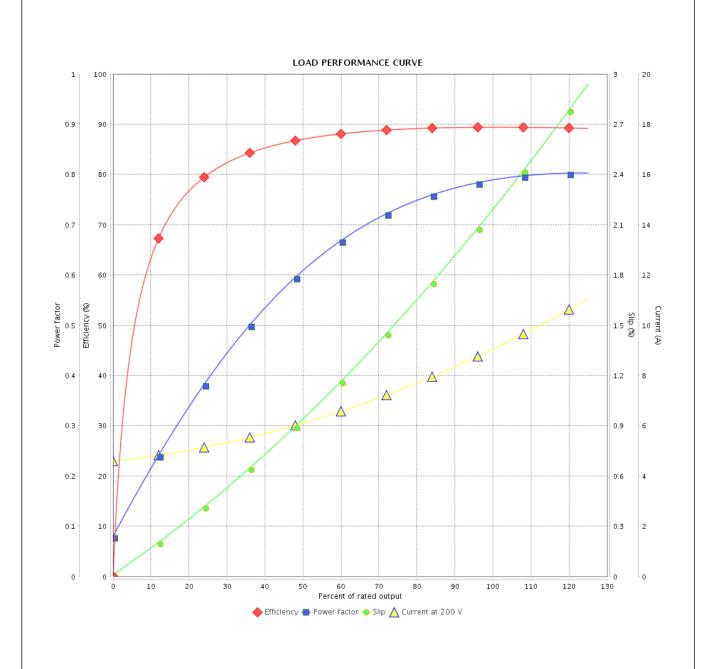


Customer

Product line : NEMA Premium Efficiency Three- Product code : 15958316

Phase

Catalog #: 00318ST3PIE182TC-W22



Performance		: 200 V 60 Hz 4P					
Rated current	:	.99 A Moment of inertia (J)		f inertia (J)	: 0.3401 sq.ft.lb		
LRC		8.1	Duty cycle		: Cont.(S1)		
Rated torque		8.95 ft.lb	Insulation class		: F		
Locked rotor torque		229 %	Service factor		: 1.25		
Breakdown torque	e :	: 340 % Temperature rise Design		Temperature rise			
Rated speed	:				: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



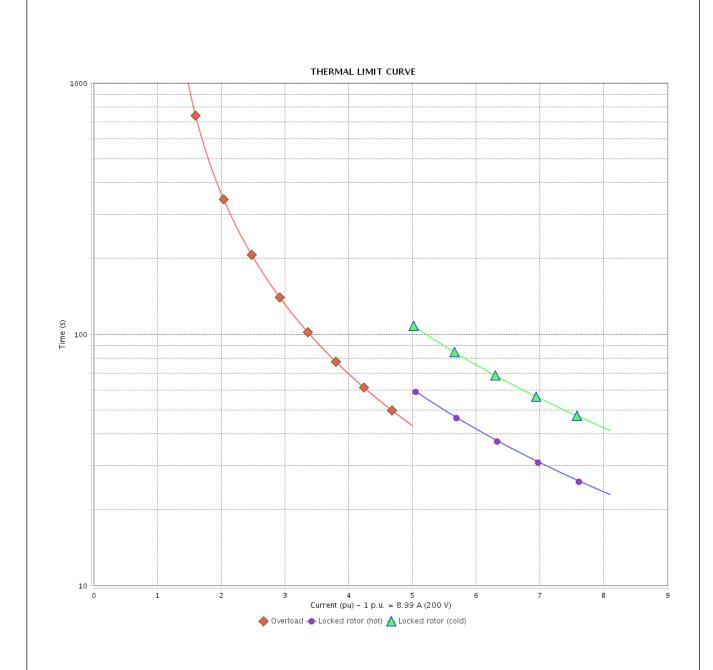
Customer		:					
Product line		: NEMA Premium Efficiency Three-Phase		Product code :	15958316		
				Catalog # :	00318ST3PI	E182TC-W22	
Performance	:	200 V 60 Hz 4P					
Rated current		8.99 A	Moment o	of inertia (J)	: 0.3401 sq.ft.	b	
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Locked rotor tord	que :	229 %	Service fa	ictor	: 1.25		
Breakdown torqu		340 %	Temperati	ure rise	: 80 K		
Rated speed		1760 rpm	Design		: 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



Revision

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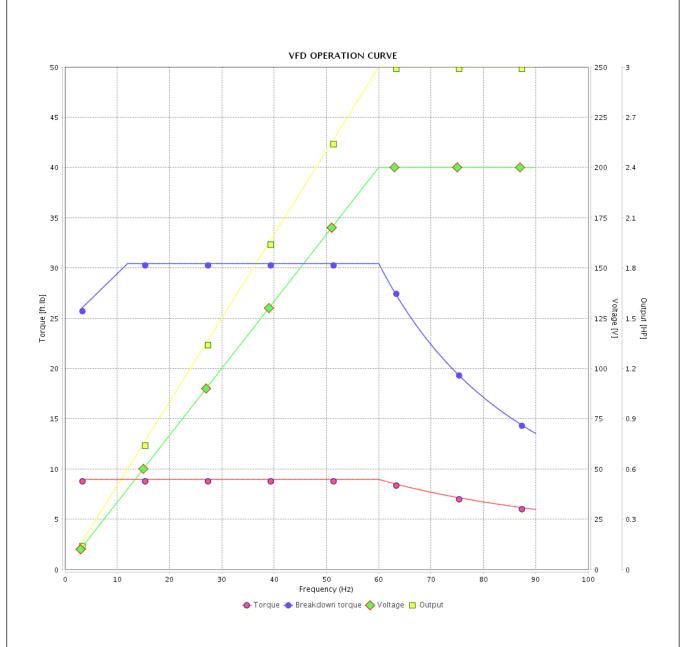
01/06/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 15958316

Catalog #: 00318ST3PIE182TC-W22



Performance : 200 V 60 Hz 4P Rated current : 8.99 A Moment of inertia (J) : 0.3401 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.1 Insulation class : 8.95 ft.lb : F Rated torque 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

