DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11165697 Catalog #: 07536ET3H365TS-W22 Frame : 364/5TS Locked rotor time : 18s (cold) 10s (hot) Output : 75 HP (55 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 : 65.5 A Protection degree : IP55 L. R. Amperes : 439 A Cooling method : IC411 - TEFC LRC : 6.7x(Code G) Mounting : F-1 No load current : 16.0 A Rotation¹ : Both (CW and CCW) Rated speed : 3555 rpm Noise level² : 79.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 111 ft.lb Approx. weight³ : 851 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 11.9 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 92.2 92.4 93.6 93.6 Max. traction : 522 lb Power Factor 0.60 0.88 0.90 0.83 Max. compression : 1373 lb Non drive end Drive end 6314 C3 Bearing type 6314 C3 WSeal Sealing WSeal Lubrication interval 4000 h 4000 h Lubricant amount 27 g 27 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

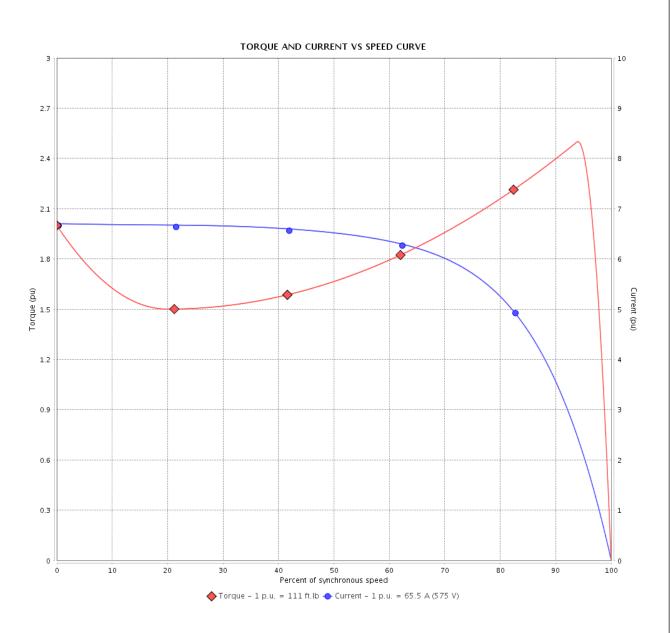


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165697

Phase

Catalog #: 07536ET3H365TS-W22



Performance : 575 V 60 Hz 2P Rated current : 65.5 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



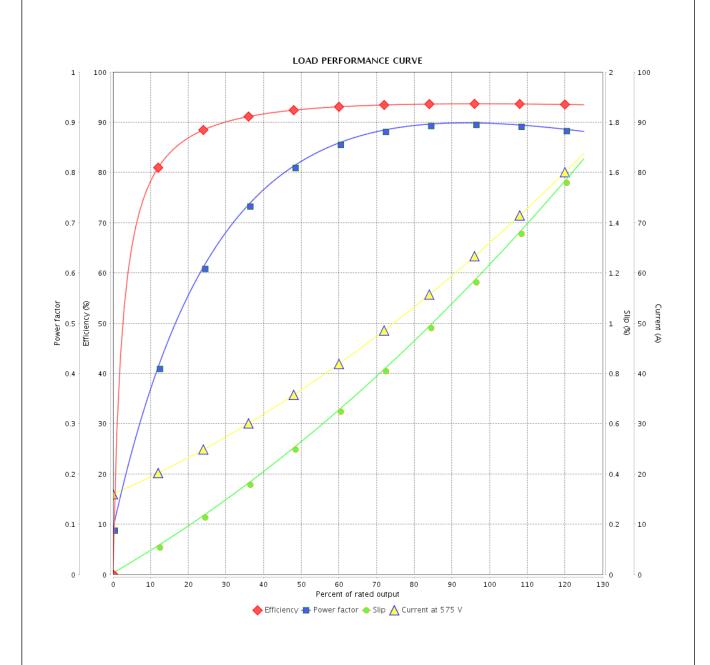
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165697

Phase

Catalog #: 07536ET3H365TS-W22

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Performance	: 575 V 60 Hz 2P				
Rated current LRC	: 65.5 A Moment of inertia (J) : 6.7 Duty cycle		nertia (J)	: 11.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 111 ft.lb Insulation			: F	
Locked rotor torque		Service fact	or	: 1.25	
Breakdown torque		Temperature rise Design		: 80 K	
Rated speed	: 3555 rpm			: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



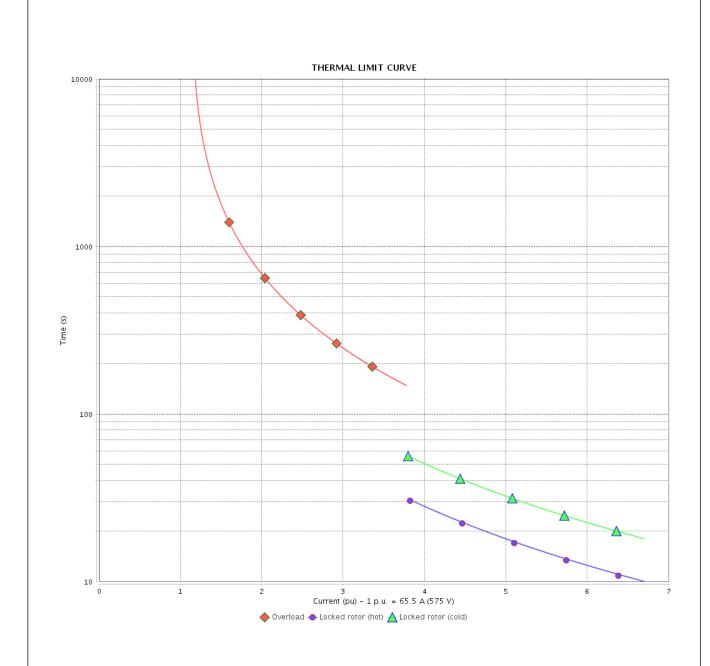
Customer	:			·	
Product line	: NEMA Premium Effici	ency Three-	Product code :	11165697	
	Phase		Catalog # :	07536ET3H3	SETS MOO
			Catalog # .	07536E13H3	0010-4422
Performance	: 575 V 60 Hz 2P				
Rated current LRC	: 65.5 A : 6.7	Moment of Duty cycle	of inertia (J)	: 11.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 111 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 % : 250 %	Service fa		: 1.25 : 80 K	
Breakdown torque Rated speed	: 250 % : 3555 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		-			
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 :

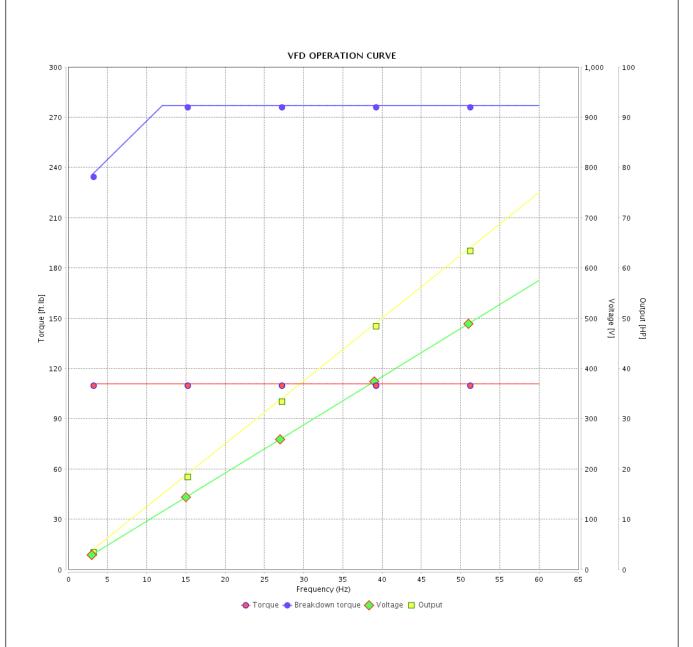
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165697

Catalog #: 07536ET3H365TS-W22

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Rated current LRC Rated torque	: 65.5 A : 6.7 : 111 ft.lb : 200 %	Duty cycle Insulation	e ` ´	: 11.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 250 % : 3555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1)	
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