DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14334997 Catalog #: 40009ET3G588/9-W22 Frame : 588/9T Locked rotor time : 45s (cold) 25s (hot) Output : 400 HP (300 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 498 A Protection degree : IP55 L. R. Amperes : 3586 A Cooling method : IC411 - TEFC LRC : 7.2x(Code J) Mounting : F-1 No load current : 210 A Rotation¹ : Both (CW and CCW) Rated speed : 894 rpm Starting method : Direct On Line Slip : 0.67 % Approx. weight³ : 5072 lb Rated torque : 2350 ft.lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 537 sq.ft.lb 25% 50% 75% 100% Foundation loads Output Efficiency (%) 93.0 95.0 95.6 95.8 Max. traction : 9720 lb Power Factor 0.38 0.62 0.73 0.79 Max. compression : 14791 lb Drive end Non drive end Bearing type 6322 C3 6319 C3 Taconite Labyrinth Taconite Labyrinth Sealing Lubrication interval 11801 h 14016 h Lubricant amount 60 g 45 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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer	:					
		Space	heater informat	ion		
Voltage: 200 - 24	10 V					
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TORQUE AND CURRENT VS SPEED CURVE

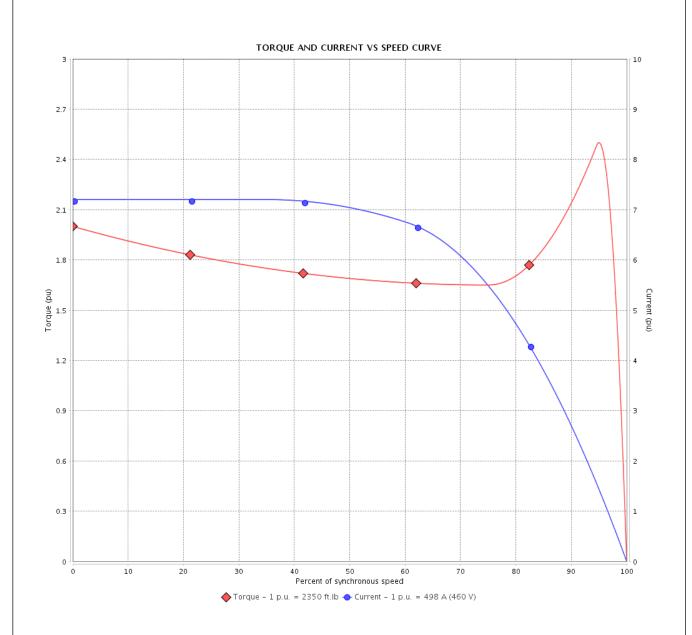
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14334997

Catalog #: 40009ET3G588/9-W22



Performance	: 460 V 60 Hz 8P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 498 A : 7.2 : 2350 ft.lb : 200 % : 250 % : 894 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 537 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 894 rpm			

Locked rotor time

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



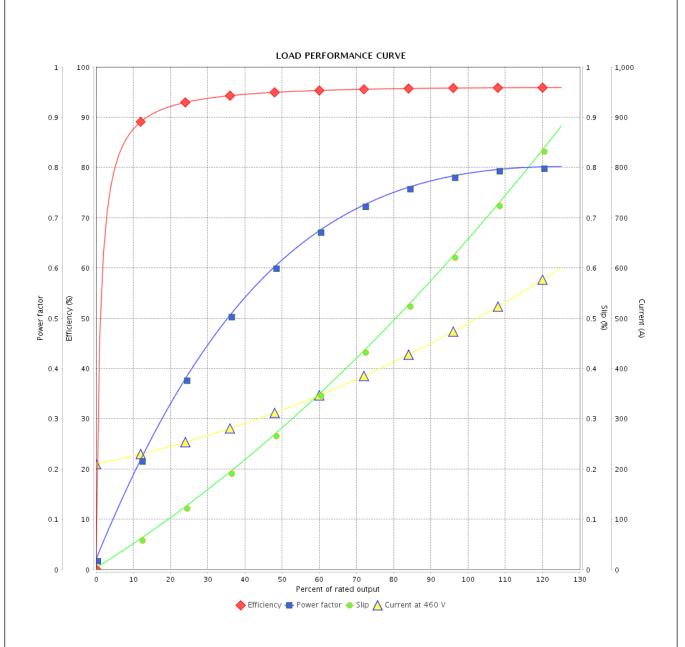
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 14334997

Catalog #: 40009ET3G588/9-W22



Performance : 460 V 60 Hz 8P Rated current : 498 A Moment of inertia (J) : 537 sq.ft.lb **LRC** : 7.2 : Cont.(S1) Duty cycle : 2350 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 894 rpm

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



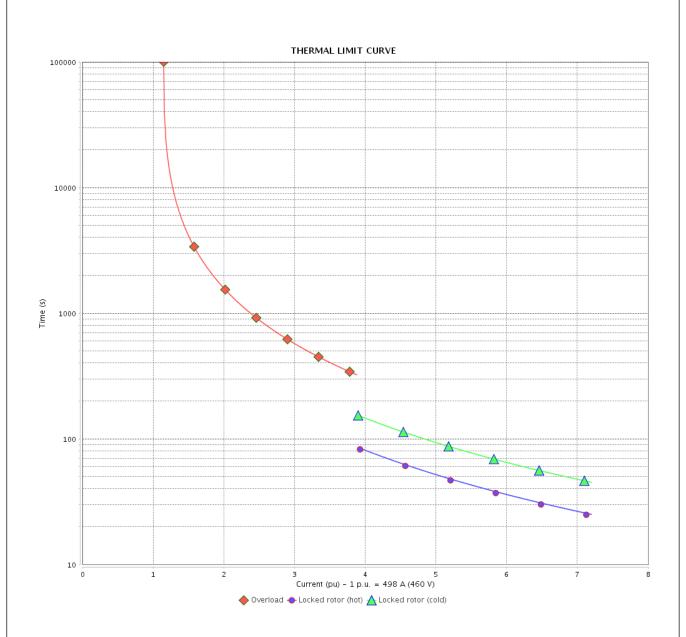
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Customer	:					
Product line	: 1 Pl	NEMA Premium Efficiency [·] hase	Three-	Product code :	14334997	
				Catalog # :	40009ET3G	588/9-W22
Performance	: 46	60 V 60 Hz 8P				
Rated current		98 A	Moment o	f inertia (J)	: 537 sq.ft.lb	
LRC Rated torque	: 7.	.2 350 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		00 %	Service fa		. r : 1.00	
Breakdown torqu	ue : 25	50 %	Temperati		: 80 K	
Rated speed	: 89	94 rpm				
Heating constan	t					
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



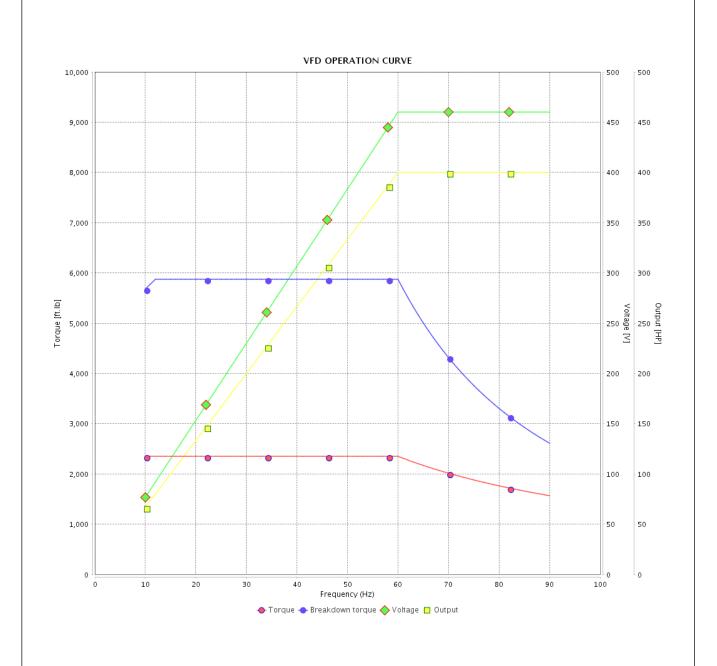
Customer

Performed by

Product line : NEMA Premium Efficiency Three- Product code : 14334997

Phase

Catalog #: 40009ET3G588/9-W22



Performance	: 460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 498 A : 7.2 : 2350 ft.lb : 200 % : 250 % : 894 rpm	Moment of Duty cycle Insulation Service fac Temperatu	class	: 537 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
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