DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11623898 Catalog #: 40018ET3H449T-W22 Frame : L447/9T Locked rotor time : 37s (cold) 21s (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 : 575 V : 1000 m.a.s.l. Altitude Rated current : 356 A Protection degree : IP55 L. R. Amperes : 2314 A Cooling method : IC411 - TEFC : 6.5x(Code G) LRC Mounting : F-1 No load current : 100 A Rotation¹ : Both (CW and CCW) Rated speed : 1785 rpm Noise level² : 79.0 dB(A) Starting method Slip : 0.83 % : Direct On Line Rated torque : 1180 ft.lb Approx. weight³ : 3217 lb Locked rotor torque : 250 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 136 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 96.2 : 6548 lb Efficiency (%) 94.9 95.4 95.8 Max. traction Power Factor 0.88 0.55 0.80 0.85 Max. compression : 9765 lb Non drive end Drive end Bearing type 6322 C3 6319 C3 Sealing WSeal WSeal Lubrication interval 6000 h 8000 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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



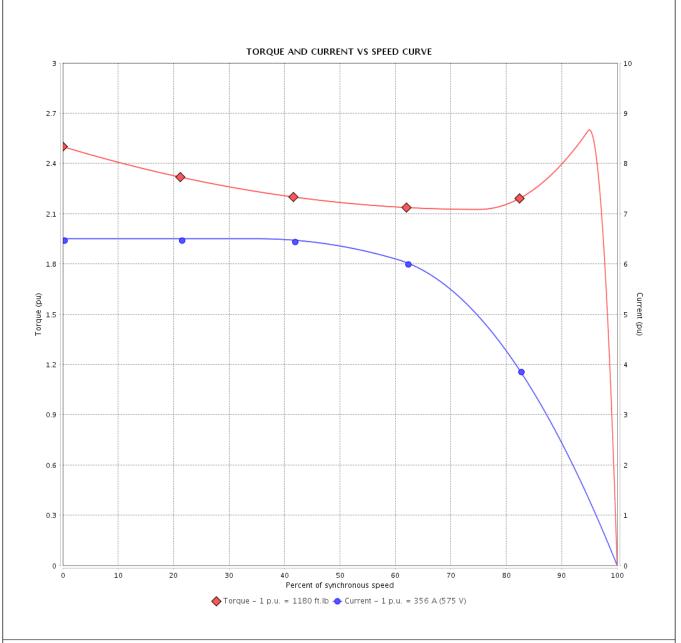
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11623898

Catalog #: 40018ET3H449T-W22



Performance : 575 V 60 Hz 4P Rated current : 356 A Moment of inertia (J) : 136 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F : 1180 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1785 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

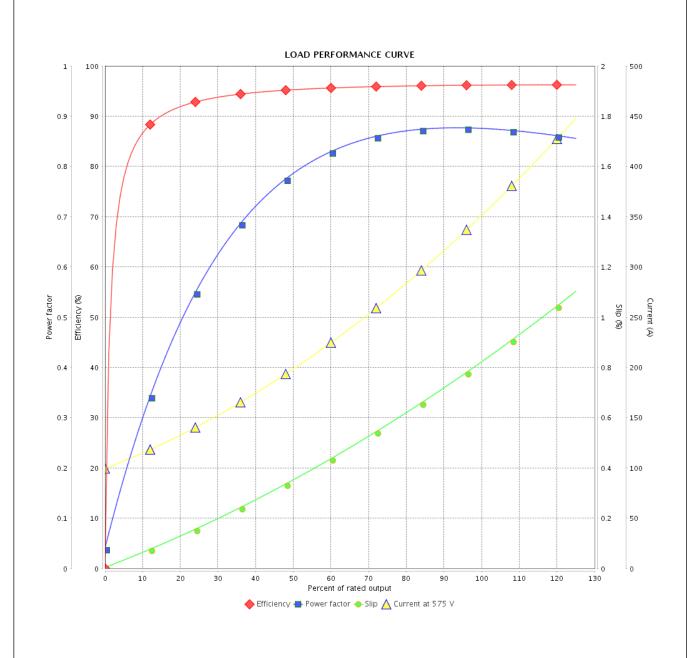


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11623898

Phase

Catalog #: 40018ET3H449T-W22



Performance	: 5	575 V 60 Hz 4P				
Rated current	: 3	56 A Moment of		f inertia (J)	: 136 sq.ft.lb	
LRC	: 6	5.5 Duty cycle		: Cont.(S1)		
Rated torque	: 1	180 ft.lb	ft.lb Insulation class		: F	
Locked rotor torqu	e : 2	: 250 % Service factor : 260 % Temperature rise : 1785 rpm Design		: 1.15		
Breakdown torque	: 2			ıre rise	: 80 K	
Rated speed	: 1			Design		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



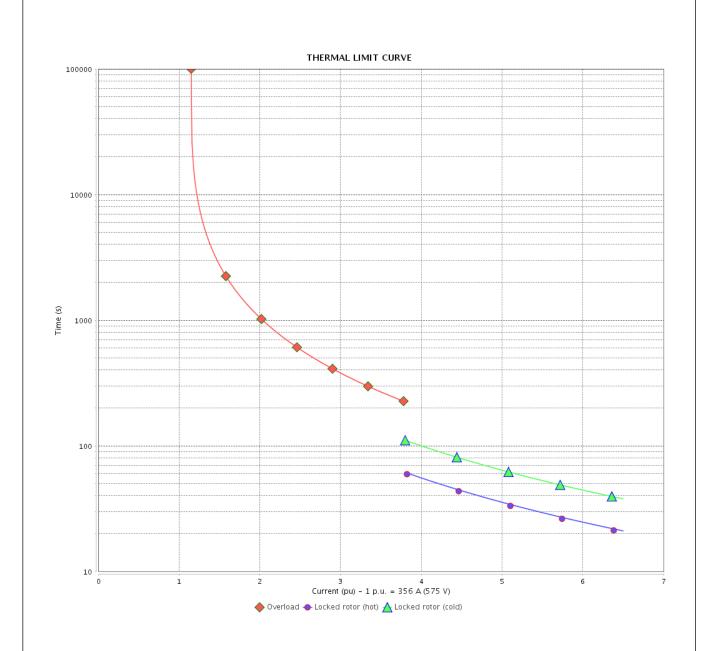
Customer		:				
Product line		: NEMA Premium Efficiency ¹ Phase		Product code : Catalog # :	11623898 40018ET3H4	49T-W22
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 575 V 60 Hz 4P : 356 A		class ctor	: 136 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary	2001911	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



Customer :

Date

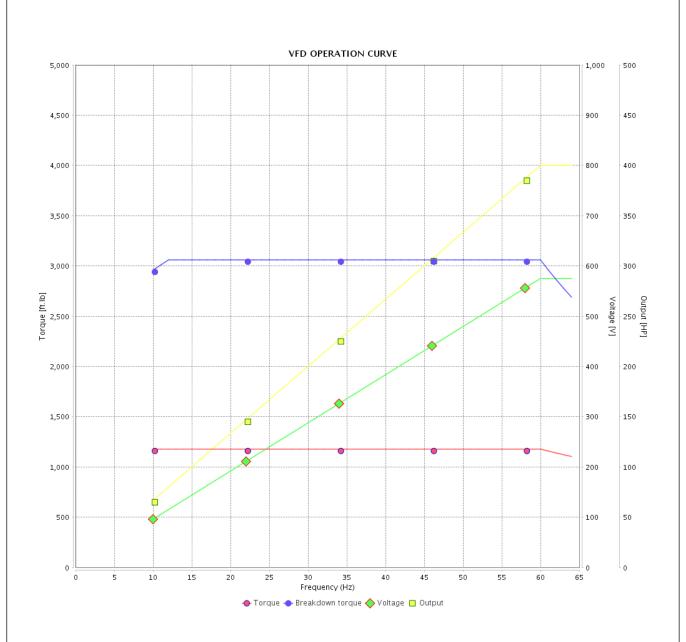
13/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11623898

Catalog #: 40018ET3H449T-W22



Performance : 575 V 60 Hz 4P Rated current : 356 A Moment of inertia (J) : 136 sq.ft.lb **LRC** Duty cycle : 6.5 : Cont.(S1) : 1180 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1785 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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