DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11573072 Catalog #: 10018ET3H405T-W22 Frame : 404/5T Locked rotor time : 23s (cold) 13s (hot) Output : 100 HP (75 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 : 90.4 A Protection degree : IP55 L. R. Amperes : 660 A Cooling method : IC411 - TEFC LRC : 7.3x(Code H) Mounting : F-1 No load current : 30.4 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 295 ft.lb Approx. weight³ : 1163 lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 29.9 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 95.0 95.0 Efficiency (%) 95.4 Max. traction : 1721 lb Power Factor 0.84 0.87 0.77 Max. compression : 2884 lb Non drive end Drive end Bearing type 6316 C3 6314 C3 Sealing WSeal WSeal Lubrication interval 10000 h 12000 h Lubricant amount 34 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



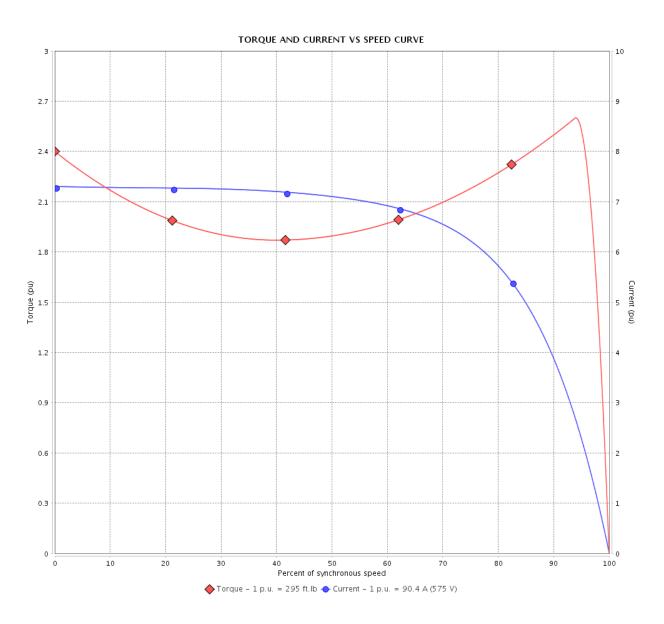
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11573072

Catalog #: 10018ET3H405T-W22



Performance : 575 V 60 Hz 4P Rated current : 90.4 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



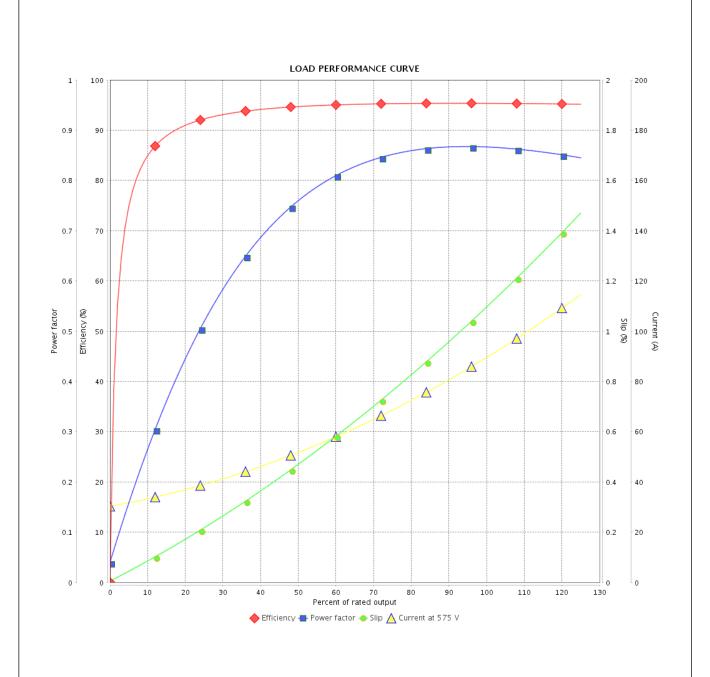
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3H405T-W22

11573072



Performance	: 5	: 575 V 60 Hz 4P						
Rated current	: 9	0.4 A	Moment of inertia (J)		: 29.9 sq.ft.lb			
LRC		.3	Duty cycle	Duty cycle				
Rated torque	: 2	95 ft.lb	Insulation	Insulation class				
Locked rotor torque	e : 2	40 %	Service fa	Service factor		: 1.25		
Breakdown torque	: 2	60 %	Temperature rise		: 80 K			
Rated speed	: 1	: 1780 rpm		Design				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



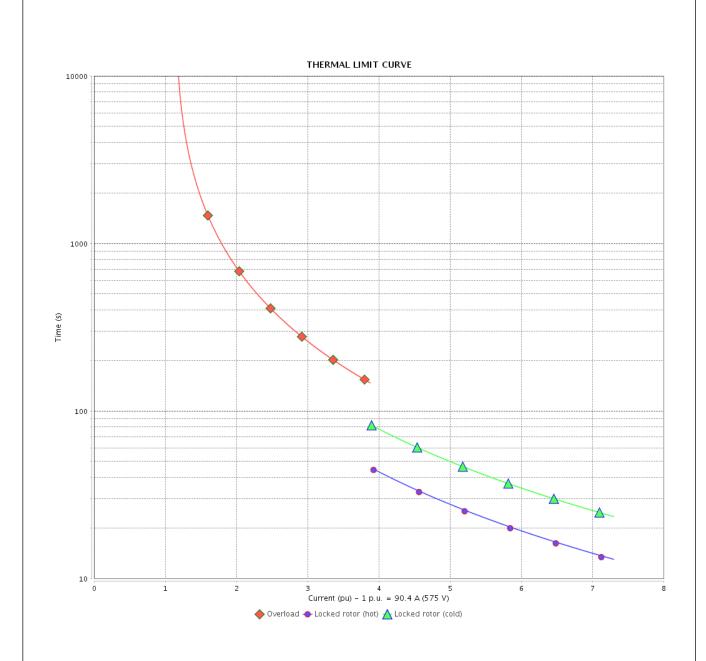
Customer	:				
Product line	: NEMA Premium Efficion Phase		Product code : Catalog # :	11573072 10018ET3H4	05T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 575 V 60 Hz 4P : 90.4 A : 7.3 : 295 ft.lb : 240 % : 260 % : 1780 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ictor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : 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



Customer :

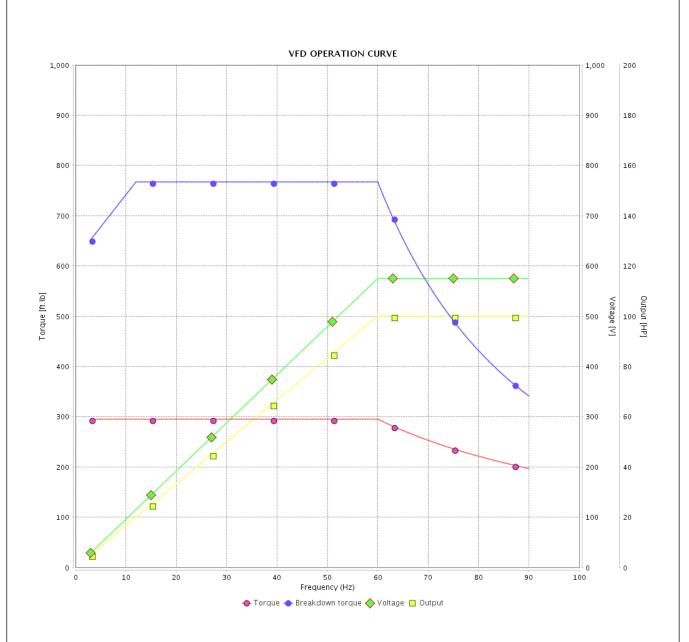
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11573072

Catalog #: 10018ET3H405T-W22

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Performance	: 575 V 60 Hz 4P						
Rated current	: 90.4 A	Moment of inertia (J)		: 29.9 sq.ft.lb			
LRC	: 7.3	Duty cycle		: Cont.(S1)			
Rated torque	: 295 ft.lb	Insulation class		: F			
Locked rotor torque	: 240 %	Service factor		: 1.25			
Breakdown torque	: 260 %	Temperature rise		: 80 K			
Rated speed	: 1780 rpm	Design		: B			
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14/04/2022

Date

