### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11457867 Catalog #: 05018ET3H326T-W22 Frame : 324/6T Locked rotor time : 27s (cold) 15s (hot) Output : 50 HP (37 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 : 47.4 A Protection degree : IP55 : 294 A L. R. Amperes Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 18.8 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1775 rpm Noise level<sup>2</sup> : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight<sup>3</sup> : 591 lb Locked rotor torque : 229 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.16 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 94.5 Efficiency (%) 92.5 93.0 94.1 Max. traction : 1237 lb Power Factor 0.77 0.83 0.42 0.66 Max. compression : 1828 lb Non drive end Drive end 6212 C3 Bearing type 6312 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 21 g 13 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



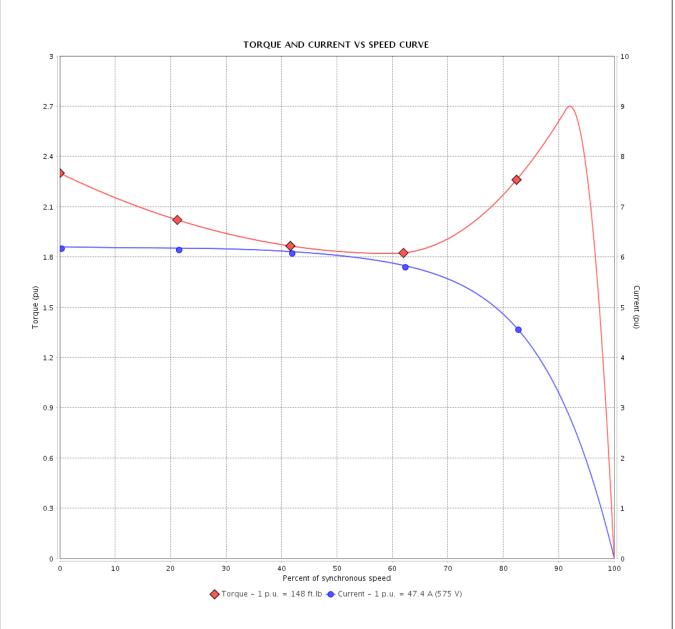
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018ET3H326T-W22

11457867



Performance : 575 V 60 Hz 4P Rated current : 47.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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# LOAD PERFORMANCE CURVE

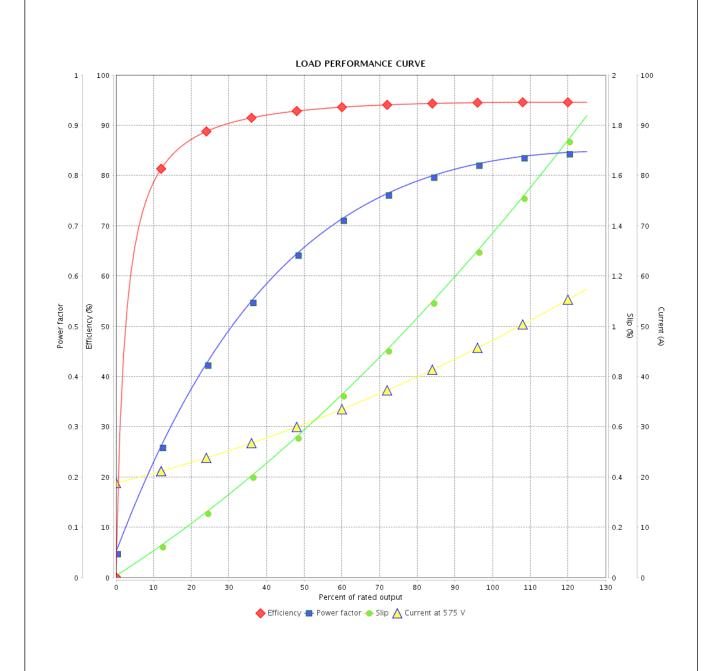
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11457867

Catalog #: 05018ET3H326T-W22



Performance	: 5	: 575 V 60 Hz 4P						
Rated current	: 4	7.4 A	Moment of inertia (J)		: 9.16 sq.ft.lb			
LRC		5.2	Duty cycle	Duty cycle				
Rated torque	: 1	48 ft.lb	Insulation class		: F			
Locked rotor tord	que : 2	229 %	Service fa	Service factor				
Breakdown torqu	ue : 2	: 270 % Tempera		ure rise	: 80 K			
Rated speed	: 1775 rpm		Design		: B			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



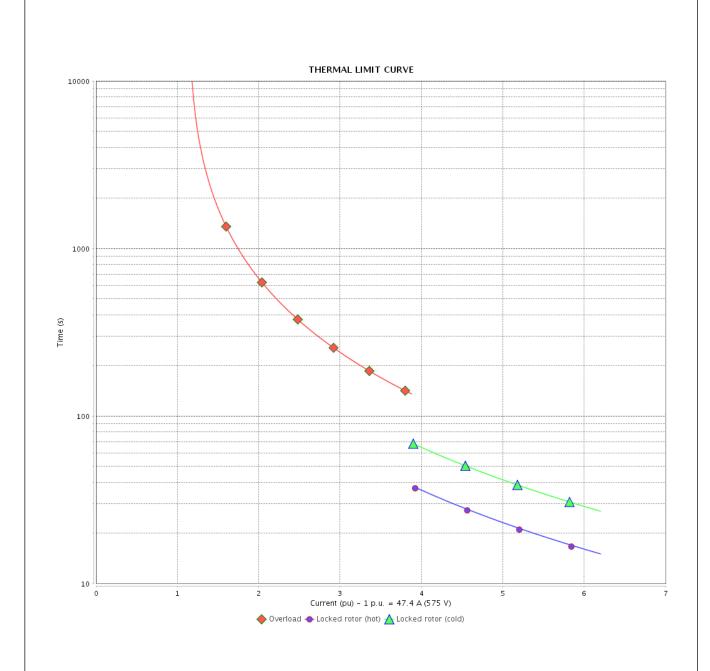
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Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup>	Three-	Product code :	11457867	
	P	mase	(	Catalog # :	05018ET3H32	26T-W22
Performance	. 5	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 4 : 6 : 1 que : 2 ue : 2	7.4 A	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constan		r				
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 :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

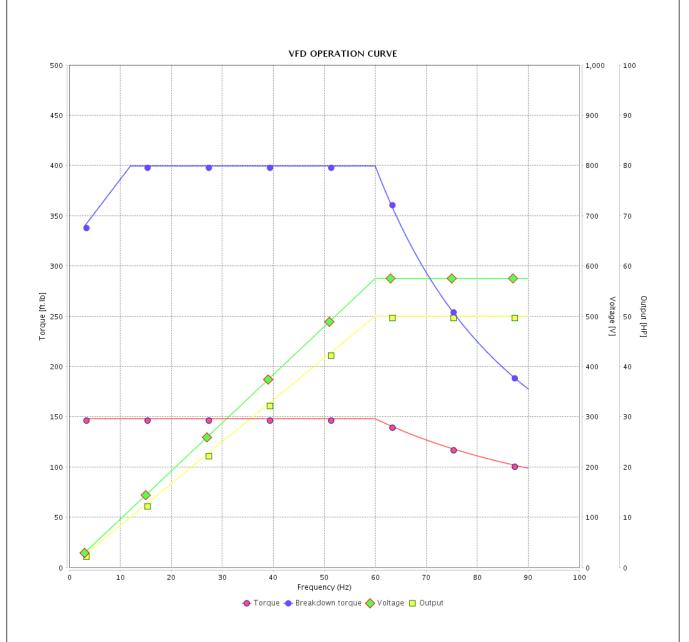
Product code: 11457867

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Revision



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 47.4 A : 6.2 : 148 ft.lb : 229 % : 270 % : 1775 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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