DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11556413 Catalog #: 05018ET3H326TC-W22 Frame : 324/6TC 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 L. R. Amperes : 294 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 18.8 A Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight³ : 608 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 : 1229 lb Power Factor 0.77 0.83 0.42 0.66 Max. compression : 1837 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



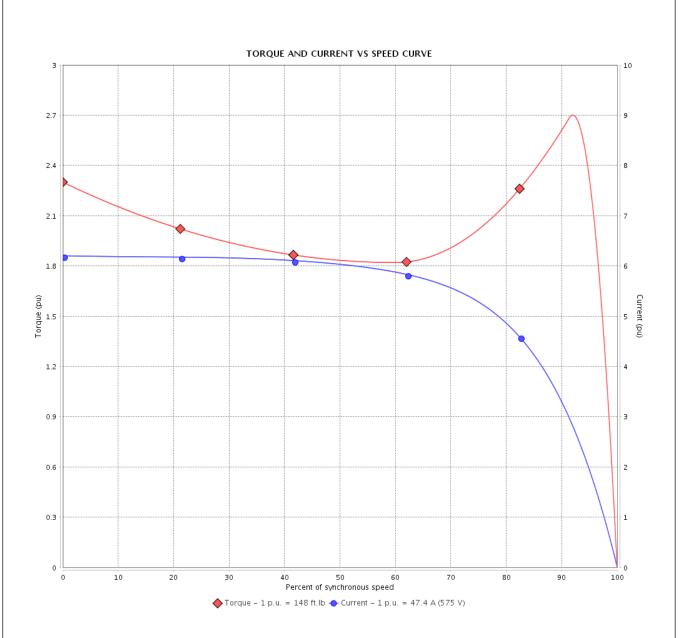
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 05018ET3H326TC-W22

11556413



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

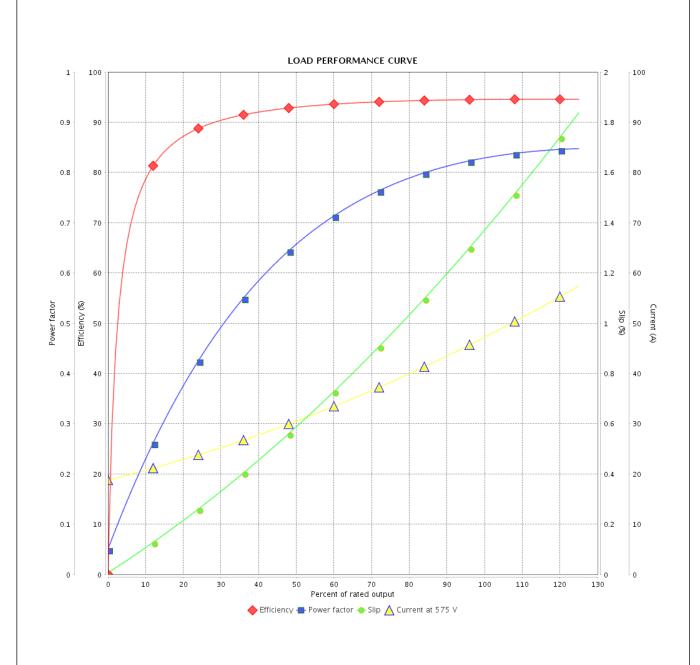


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11556413

Phase

Catalog #: 05018ET3H326TC-W22



Performance		: 575 V 60 Hz 4P						
Rated current		7.4 A Moment of inertia (J)		: 9.16 sq.ft.lb				
LRC :		.2	Duty cycle		: Cont.(S1)			
Rated torque		48 ft.lb	Insulation class		: F			
Locked rotor torqu	e :2	29 %	Service fa	Service factor		: 1.25		
Breakdown torque	: 2	70 %	Temperatu	Temperature rise				
Rated speed	: 1	1775 rpm Design			: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



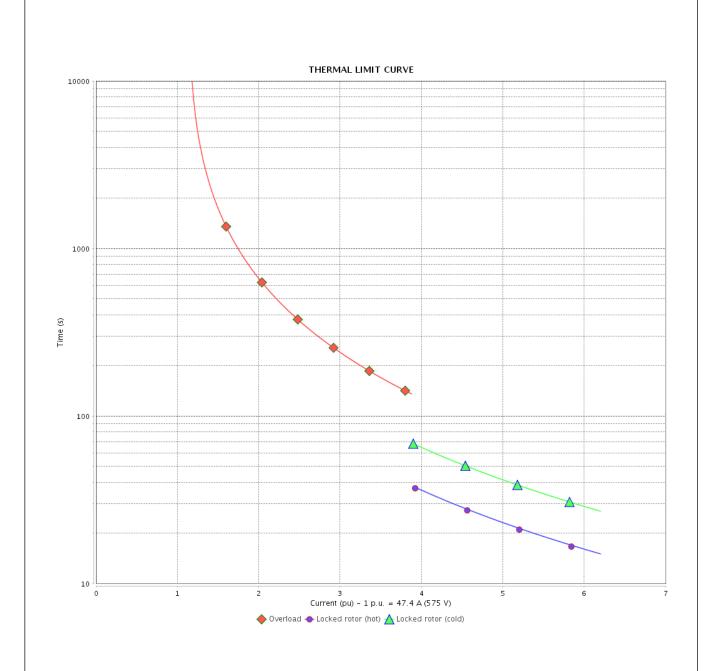
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Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11556413	
		Phase		Catalog # :	05018ET3H	326TC-W22
Performance		575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Rated speed	: : que :	575 V 60 H2 4P 47.4 A 6.2 148 ft.lb 229 % 270 % 1775 rpm	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	t					
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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

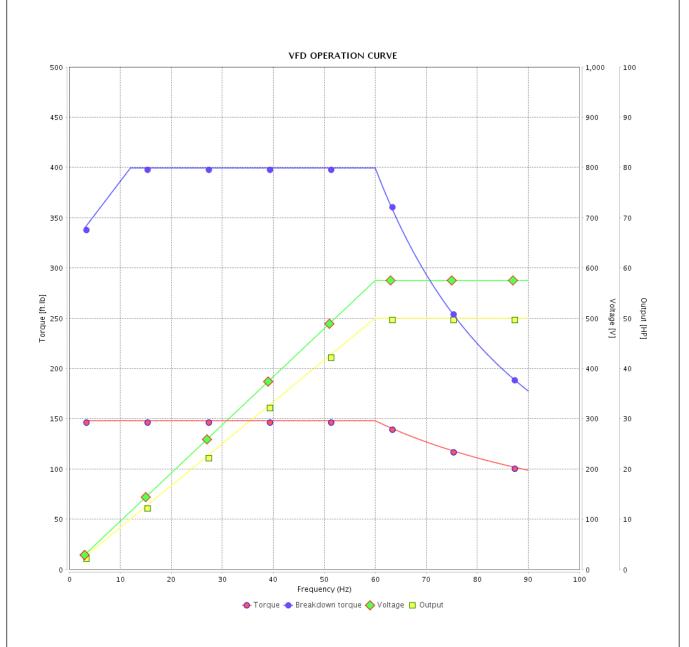
Product code: 11556413

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Revision



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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)	
Rated torque	: 148 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 1775 rpm	Design		: B	
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