DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11535533 Catalog #: 02018ET3H256TC-W22 Frame : 254/6TC Locked rotor time : 54s (cold) 30s (hot) Output : 20 HP (15 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 : 19.3 A Protection degree : IP55 L. R. Amperes : 133 A Cooling method : IC411 - TEFC LRC : 6.9x(Code H) Mounting : F-1 No load current : 7.68 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 339 lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.10 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 92.4 : 570 lb Efficiency (%) 91.7 93.0 Max. traction Power Factor 0.79 0.84 : 909 lb 0.68 Max. compression Non drive end Drive end 6209 C3 Bearing type 6309 C3 V'Ring Sealing V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 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

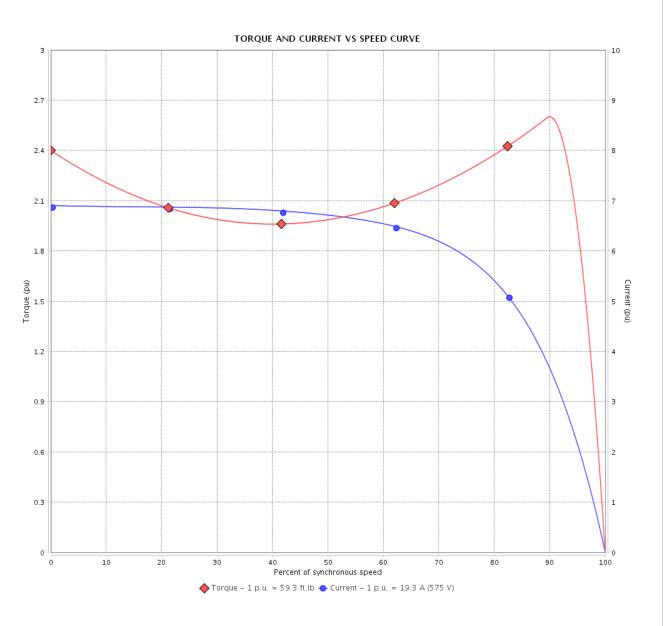


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11535533

Catalog #: 02018ET3H256TC-W22



Performance : 575 V 60 Hz 4P Rated current : 19.3 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Locked rotor time

: 54s (cold) 30s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



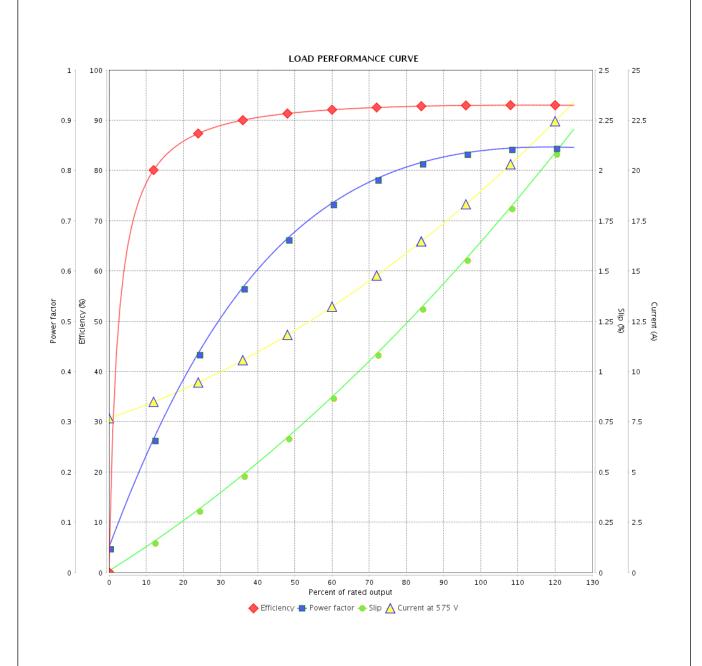
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02018ET3H256TC-W22

11535533



Performance		: 575 V 60 Hz 4P						
Rated current	:	: 19.3 A Moment of		f inertia (J)	: 3.10 sq.ft.lb			
LRC		6.9	Duty cycle		: Cont.(S1)			
Rated torque		59.3 ft.lb	Insulation class		: F			
Locked rotor torque		240 %	Service factor		: 1.25			
Breakdown torque	:	: 260 % : 1770 rpm		ıre rise	: 80 K			
Rated speed	:				: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



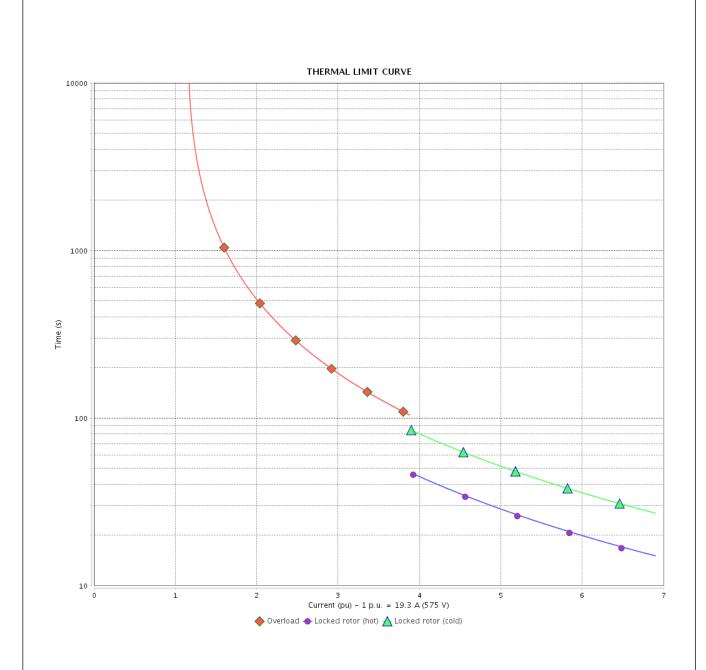
Customer	:					
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Product line		NEMA Premium Efficiency	Three-	Product code :	11535533	
	Pl	hase		Catalog # :	02018ET3H2	56TC-W22
Performance	: 57	75 V 60 Hz 4P				
Rated current		9.3 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC Rated torque	: 6. : 59	9 9.3 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torqu	ue : 24	40 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		60 % 770 rpm	Temperatu Design	ıre rise	: 80 K : B	
			Doorgii			
Heating constant 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

Date

14/04/2022

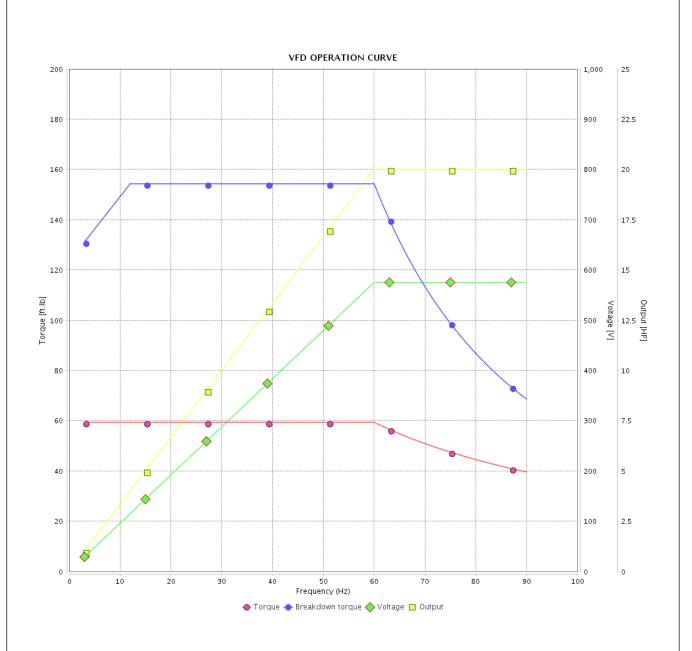
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11535533

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Performance : 575 V 60 Hz 4P : 19.3 A Rated current Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : 59.3 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

