DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: NEN Phas		m Efficiency			14406978
					Catalog #	:	02036XT3H256T
Frame Output Poles		: 256 : 20 H : 2	T HP (15 kW))	Locked rotor time Temperature rise Duty cycle		: 46s (cold) 26s (hot) : 80 K : Cont.(S1)
Frequency		: 60 H			Ambient tempera	iture	: -20°C to +40°C
Rated voltage Rated current L. R. Amperes		: 575 : 18.6 : 115	6 A A		Altitude Protection degree Cooling method		: 1000 m.a.s.l. : IP55 : IC411 - TEFC
LRC No load current Rated speed		: 5.36	(Code G) A 0 rpm		Mounting Rotation ¹ Noise level ²		: F-1 : Both (CW and CCW) : 75.0 dB(A)
Slip Rated torque Locked rotor torg		: 1.9 ² : 29.8 : 200	3 ft.lb		Starting method Approx. weight ³		: Direct On Line : 357 lb
Breakdown torqu Insulation class		: 250 : 250 : F	, -				
Service factor		: 1.15					
Moment of inertian Design	a (J)	: 1.45 : B	5 sq.ft.lb				
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	90.0	90.2	91.0	91.0	Max. traction		: 178 lb
Power Factor	0.55	0.79	0.86	0.89	Max. compression		: 535 lb
			Driv	e end	Non d	Irive end	
Bearing type		:		09 C3		209 C3	
Sealing		:		l Seal		p Seal	
Lubrication interv		:		797 h	18	3447 h	
Lubricant amoun	t	:	•	13 g	101 But 514	9 g	
Lubricant type		:		M	obil 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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Customer	
Customer	

Thermal protection

		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE



Revision

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14406978 Catalog #: 02036XT3H256T TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 29.8 ft.lb ◆ Current - 1 p.u. = 18.6 A (575 V) Performance : 575 V 60 Hz 2P Rated current : 18.6 A Moment of inertia (J) : 1.45 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 29.8 ft.lb : F : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B Locked rotor time : 46s (cold) 26s (hot) Rev. Performed Checked Date **Changes Summary**

Performed by Checked by

Date

14/04/2022

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

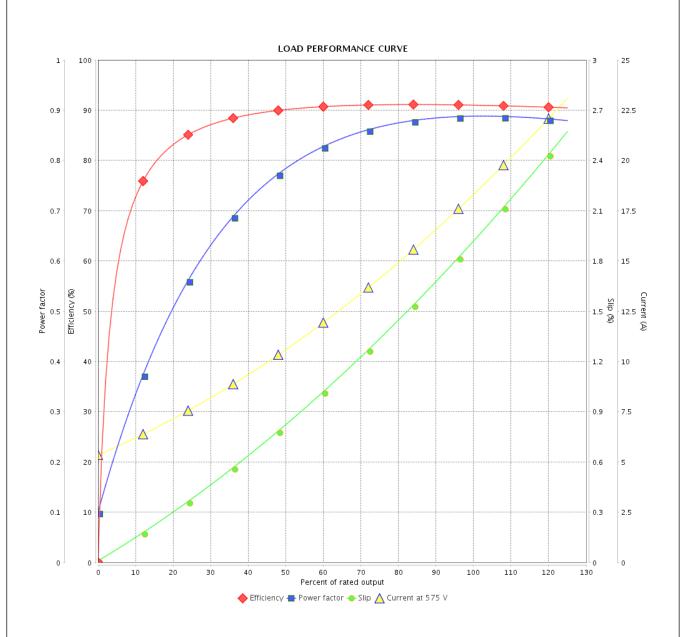
14/04/2022

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 14406978

Catalog #: 02036XT3H256T



Performance : 575 V 60 Hz 2P : 18.6 A Rated current Moment of inertia (J) : 1.45 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 29.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



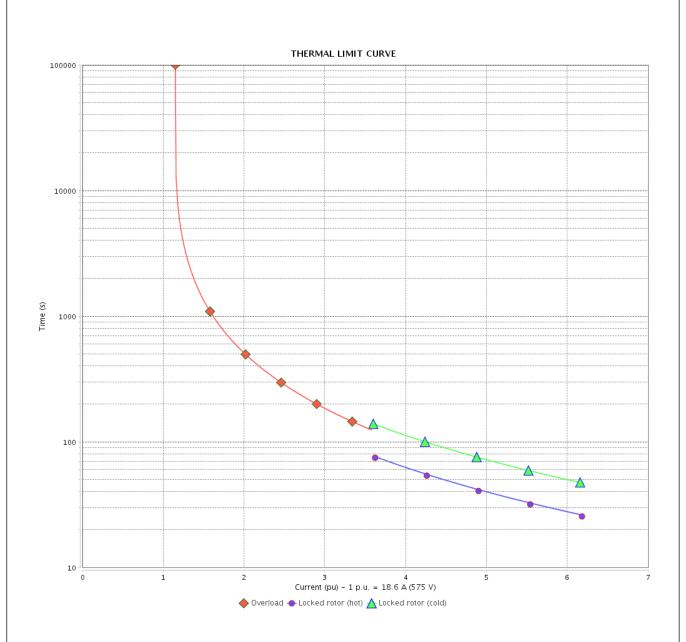
Customer	:					
Product line		NEMA Premium Efficiency [·] hase		Product code :	14406978 02036XT3H2	5 6T
				Catalog # :	0203071302	.001
Performance	: 5	75 V 60 Hz 2P				
Rated current		8.6 A	Moment of	of inertia (J)	: 1.45 sq.ft.lb	
LRC	: 6.	.2	Duty cycle	Э	: Cont.(S1)	
Rated torque		9.8 ft.lb	Insulation		: F	
Locked rotor tord Breakdown tord		00 % 50 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		530 rpm	Design	ure rise	: B	
		· p ····				
Heating constant						
Cooling constant	[Change O		De-f	Ohl !	D-4-
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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



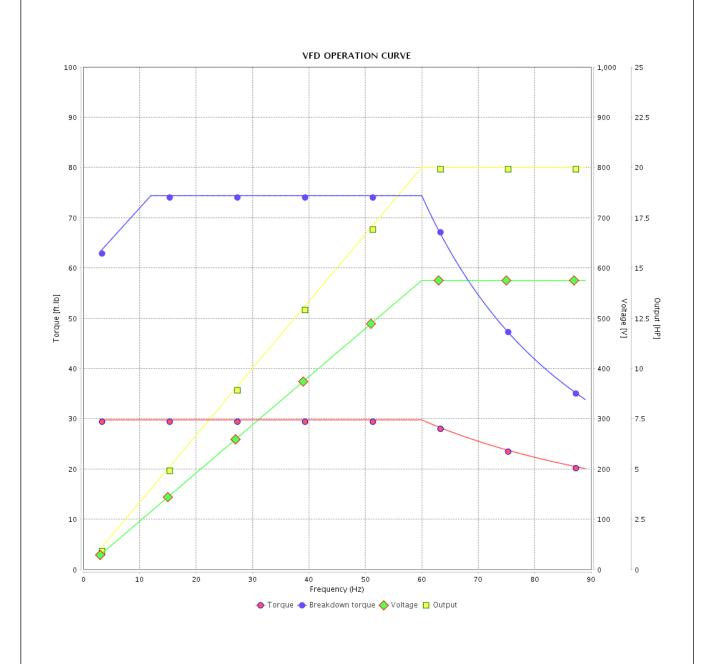
Customer

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14406978

Catalog #: 02036XT3H256T



Performance	: :	575 V 60 Hz 2P				
Rated current		18.6 A	Moment o	Moment of inertia (J)		
LRC	: (6.2	Duty cycle	Duty cycle		
Rated torque	::	29.8 ft.lb	Insulation	Insulation class		
Locked rotor torque		200 %	Service fa	Service factor		
Breakdown torque	::	250 %	Temperati	Temperature rise		
Rated speed	::	3530 rpm	Design		: B	
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