DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14406979 Catalog #: 02018XT3H256T Frame : 256T Locked rotor time : 36s (cold) 20s (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 : 20.0 A Protection degree : IP55 : 150 A L. R. Amperes Cooling method : IC411 - TEFC LRC : 7.5x(Code J) Mounting : F-1 No load current : 9.44 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 370 lb Locked rotor torque : 300 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.89 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 93.0 : 669 lb Efficiency (%) 91.0 91.7 92.4 Max. traction Power Factor 0.81 : 1039 lb 0.38 0.63 0.75 Max. compression Drive end Non drive end Bearing type 6309 C3 6209 C3 Oil Seal Sealing Lip Seal 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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

Thermal protection

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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

Three Phase Induction Motor - Squirrel Cage

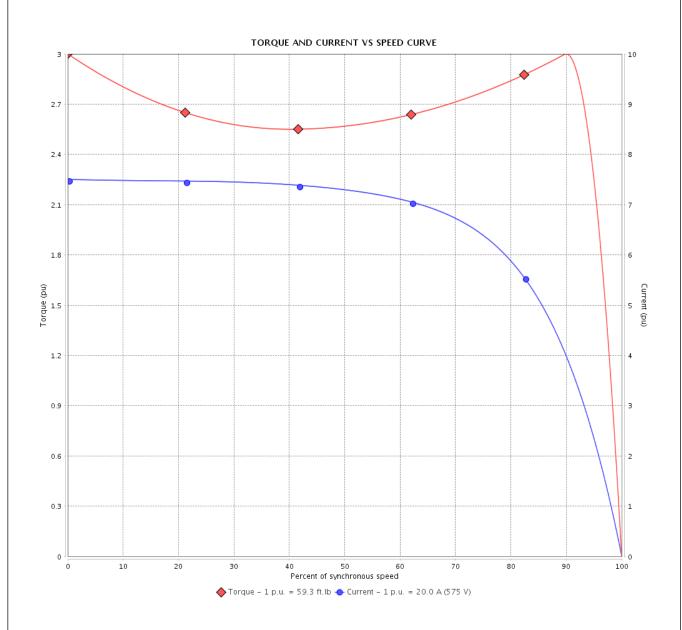


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14406979

Phase

Catalog #: 02018XT3H256T



Performance	: 575 V 60 Hz 4P			
Rated current	: 20.0 A	Moment of inertia (J)	: 2.89 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 59.3 ft.lb	Insulation class	:F	
Locked rotor torque	: 300 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1770 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (hot)			

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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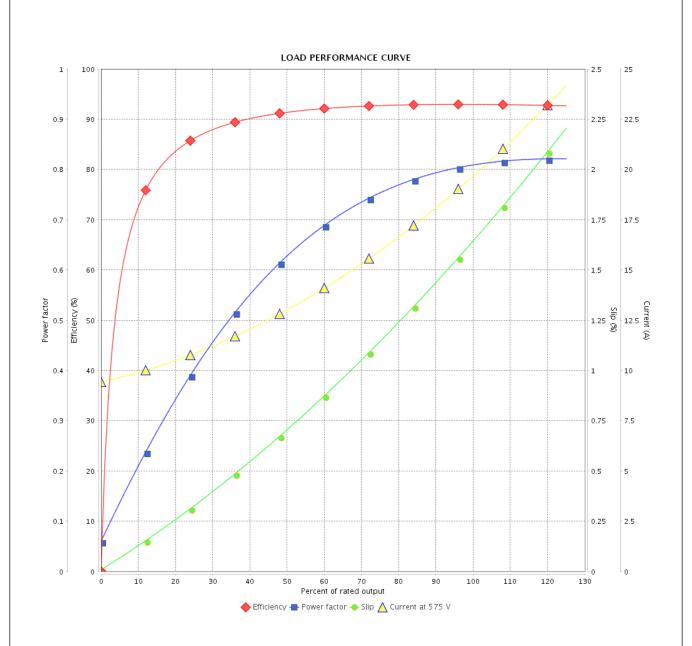
Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 14406979

Phase

Catalog #: 02018XT3H256T



Performance : 575 V 60 Hz 4P : 20.0 A Rated current Moment of inertia (J) : 2.89 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 59.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



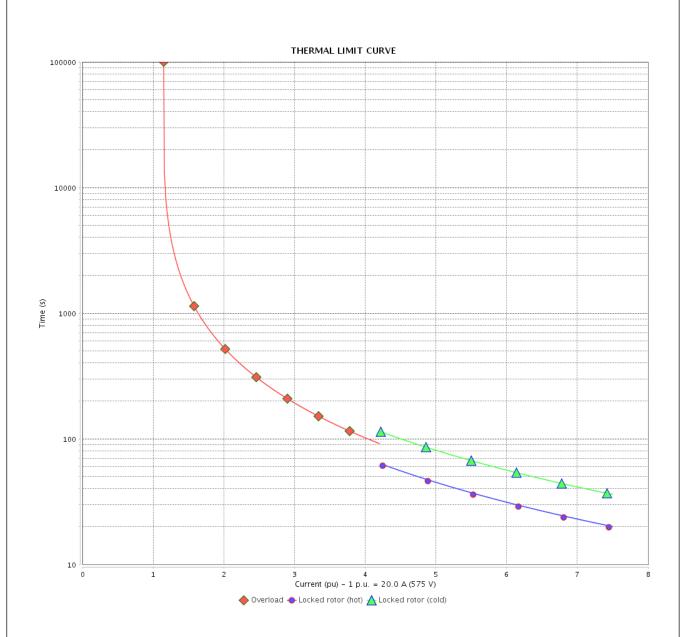
Customer	:					
Product line		NEMA Premium Efficiency	/Three-	Product code :	14406979	
1 Toddot IIIIc		Phase				
				Catalog # :	02018XT3H2	256 I
Performance		75.7/00.11-40				
Rated current		575 V 60 Hz 4P 20.0 A	Momont	of inertia (J)	: 2.89 sq.ft.lb	
LRC		7.5	Duty cycle	e	: Cont.(S1)	
Rated torque		59.3 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	que : 3 Je : 3	300 % 300 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		1770 rpm	Design		: B	
Heating constan	t					
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

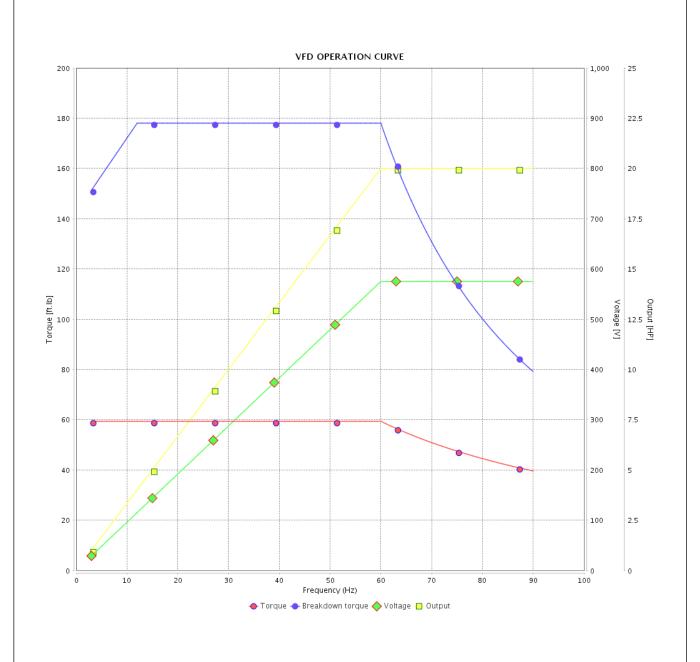


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14406979

Phase

Catalog #: 02018XT3H256T



Performance : 575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.0 A : 7.5 : 59.3 ft.lb : 300 % : 300 % : 1770 rpm	Duty cycle Insulation class Service factor Temperature rise		: 2.89 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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14/04/2022

Date

