DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14371273 Catalog #: 00318XT3H182T Frame : 182/4T Locked rotor time : 50s (cold) 28s (hot) Output : 3 HP (2.2 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 : 3.13 A Protection degree : IP55 L. R. Amperes : 25.0 A Cooling method : IC411 - TEFC LRC : 8.0x(Code K) Mounting : F-1 No load current : 1.68 A Rotation¹ : Both (CW and CCW) Rated speed : 1760 rpm Noise level² : 56.0 dB(A) Starting method Slip : 2.22 % : Direct On Line Rated torque : 8.95 ft.lb Approx. weight³ : 121 lb Locked rotor torque : 250 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.2781 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 87.5 88.5 : 122 lb Efficiency (%) 89.5 Max. traction Power Factor 0.71 0.59 0.79 Max. compression : 243 lb Drive end Non drive end 6206 2RS Bearing type 6307 2RS Sealing Oil Seal Lip Seal Lubrication interval Lubricant amount 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	
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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



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14371273 Catalog #: 00318XT3H182T TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5

Performance : 575 V 60 Hz 4P Rated current : 3.13 A Moment of inertia (J) : 0.2781 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : 8.95 ft.lb Insulation class : F Rated torque : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K : B Rated speed : 1760 rpm Design

Percent of synchronous speed ◆ Torque - 1 p.u. = 8.95 ft.lb ◆ Current - 1 p.u. = 3.13 A (575 V)

Locked rotor time : 50s (cold) 28s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

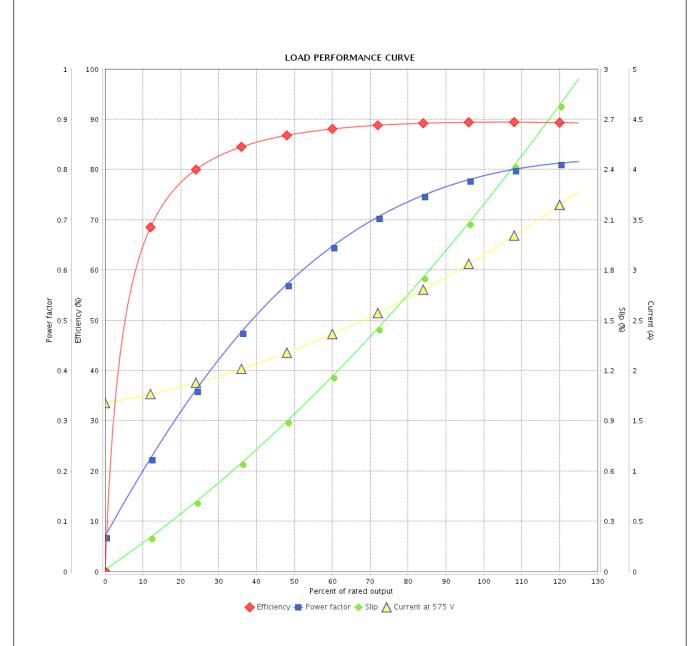
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Performance		: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 3.13 A : 8.0 : 8.95 ft.lb : 250 % : 320 % : 1760 rpm	Duty cyc Insulatio Service t	n class	: 0.2781 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



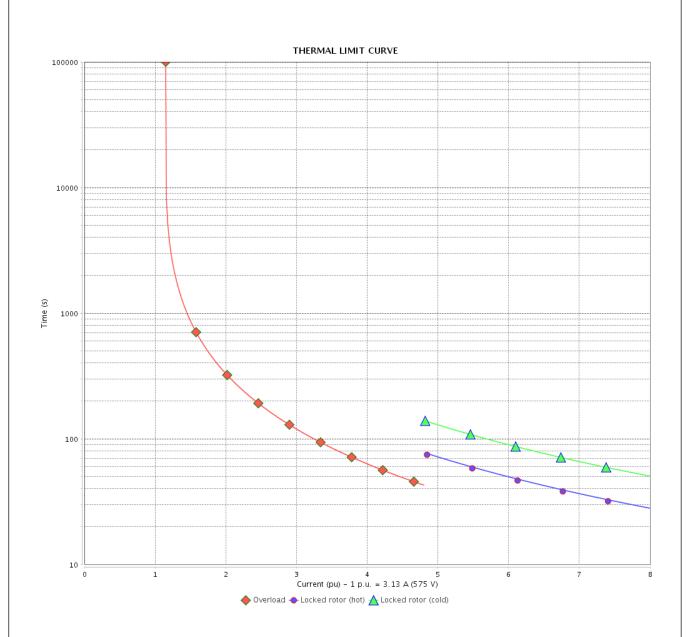
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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	14371273	
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Performance Rated current		575 V 60 Hz 4P 3.13 A	Moment o	of inertia (J)	: 0.2781 sq.ft.	 lb
LRC	:	8.0	Duty cycle	9	: Cont.(S1)	ID.
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Locked rotor tord Breakdown tord		250 % 320 %	Service fa Temperat		: 1.15 : 80 K	
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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

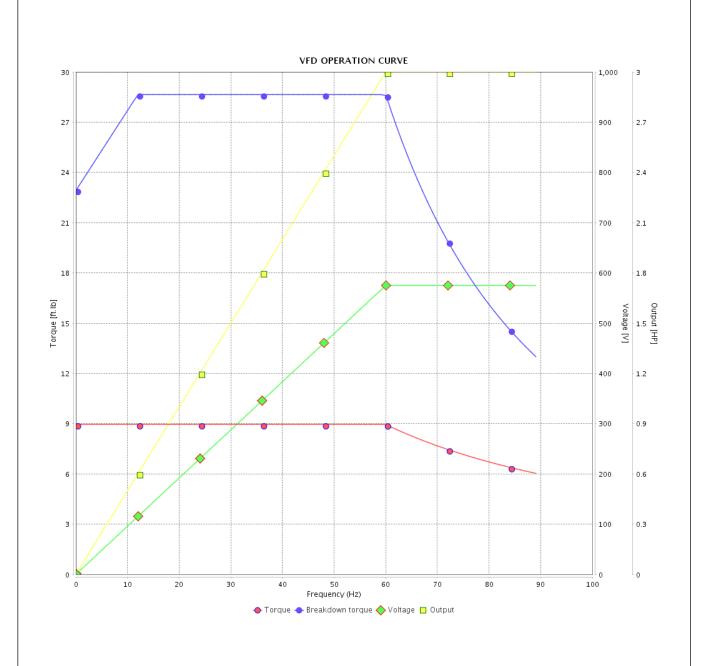


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14371273

Phase

Catalog #: 00318XT3H182T



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.13 A : 8.0 : 8.95 ft.lb : 250 % : 320 % : 1760 rpm	Moment of in Duty cycle Insulation classification classification Classification Classification (Control of Control of Con	ass or	: 0.2781 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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