DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13465908 Catalog #: 15018XT3H445T Frame : 444/5T Locked rotor time : 39s (cold) 22s (hot) Output : 150 HP (110 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 : 136 A Protection degree : IP55 L. R. Amperes : 857 A Cooling method : IC411 - TEFC LRC : 6.3x(Code G) Mounting : F-1 No load current : 41.6 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 76.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 442 ft.lb Approx. weight³ : 2195 lb Locked rotor torque : 210 % Breakdown torque : 220 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 66.7 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.8 : 1497 lb Efficiency (%) 94.8 95.0 95.8 Max. traction Power Factor 0.85 0.49 0.72 0.81 Max. compression : 3693 lb Non drive end Drive end Bearing type 6219 C3 6316 C3 Viton Oil Seal Viton Seal Sealing Lubrication interval 8033 h 8569 h Lubricant amount 28 g 34 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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Three Phase Induction Motor - Squirrel Cage



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Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C
2	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13465908 Catalog #: 15018XT3H445T TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 442 ft.lb ◆ Current - 1 p.u. = 136 A (575 V) Performance : 575 V 60 Hz 4P Rated current : 136 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 442 ft.lb Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Locked rotor time : 39s (cold) 22s (hot) Rev. Performed Checked Date **Changes Summary**

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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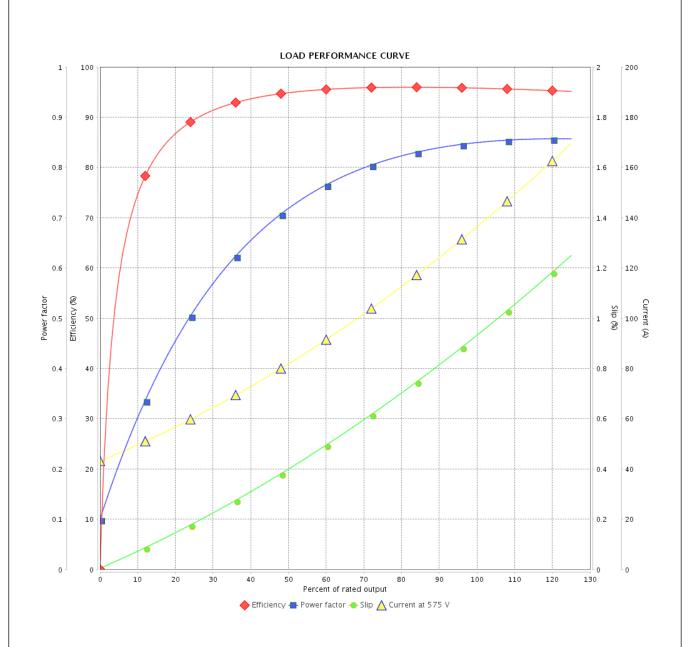
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13465908

Catalog #: 15018XT3H445T



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 136 A : 6.3 : 442 ft.lb : 210 % : 220 % : 1780 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



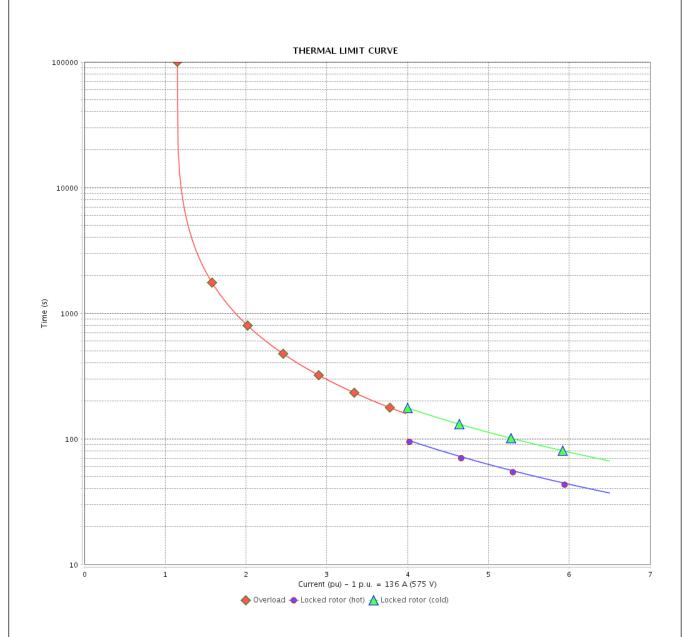
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Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	13465908 15018XT3H	445T
Performance		75 V 60 Hz 4P	Managata	finantia (1)	. CC 7 on # lb	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 44 que : 22 ue : 22	36 A .3 42 ft.lb 10 % 20 % 780 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan						
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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

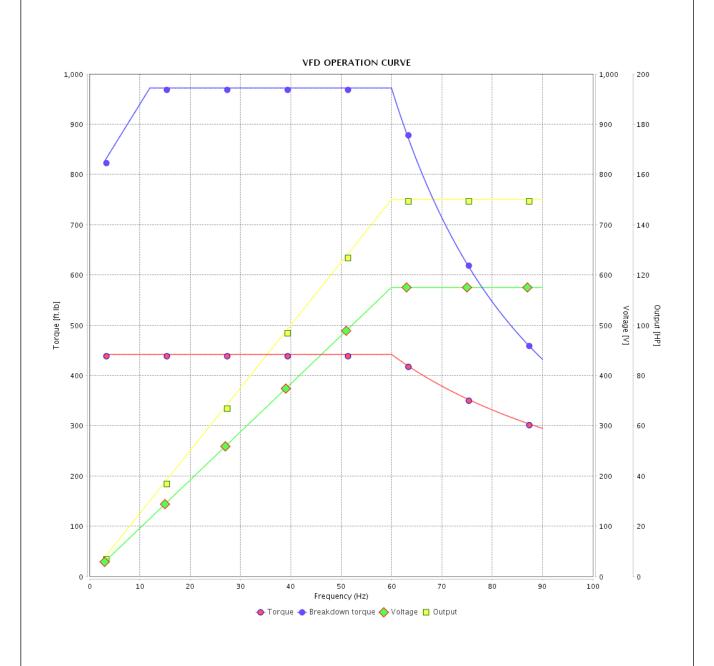
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018XT3H445T

13465908

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Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 136 A : 6.3 : 442 ft.lb : 210 % : 220 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 66.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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