DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11483103 Catalog #: 10018XT3H405T Frame : 404/5T Locked rotor time : 23s (cold) 13s (hot) Output : 100 HP (75 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 : 90.4 A Protection degree : IP55 L. R. Amperes : 651 A Cooling method : IC411 - TEFC LRC : 7.2x(Code H) Mounting : F-1 No load current : 31.2 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 75.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 295 ft.lb Approx. weight³ : 1194 lb Locked rotor torque : 270 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 26.4 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.4 : 1880 lb Efficiency (%) 94.0 94.5 95.0 Max. traction Power Factor 0.82 0.87 : 3074 lb 0.47 0.72 Max. compression Non drive end Drive end 6314 C3 Bearing type 6217 C3 Oil Seal Sealing Lip Seal Lubrication interval 9149 h 9789 h Lubricant amount 21 g 27 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

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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

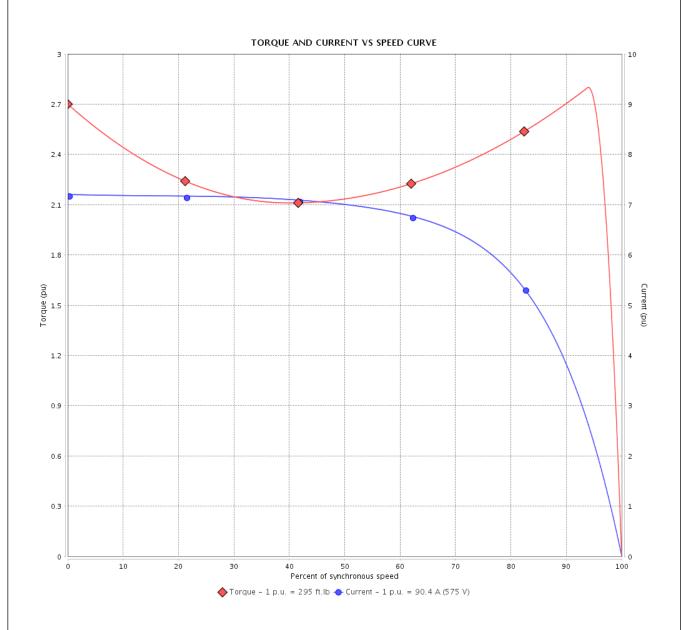
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11483103

Catalog #: 10018XT3H405T



Performance	: 575 V 60 Hz 4P			
Rated current	: 90.4 A	Moment of inertia (J)	: 26.4 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 295 ft.lb	Insulation class	: F ` ´	
Locked rotor torque	: 270 %	Service factor	: 1.15	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1780 rpm	Design	: B	
Locked rotor time	· 23s (cold) 13s (hot)	I		

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

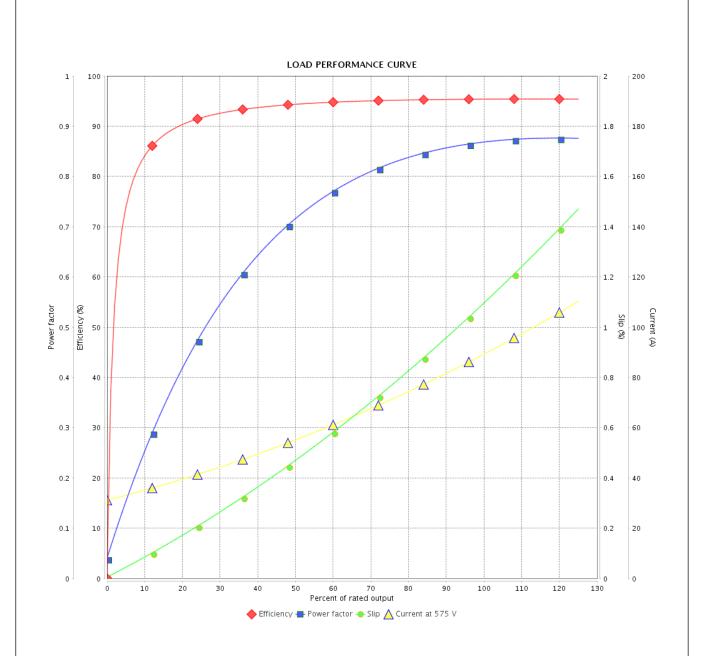
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018XT3H405T

11483103

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Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 90.4 A : 7.2 : 295 ft.lb : 270 % : 280 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		I) : 26.4 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



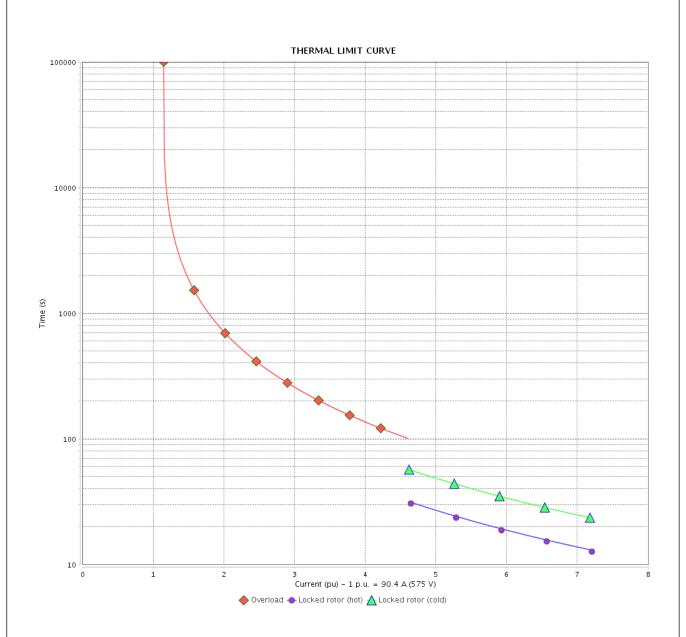
Product line	:	NEMA Premium Efficiency T	「hree-	Product code :	11483103	
		Phase				OET
				Catalog # :	10018XT3H4	05T
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq	: 9 : 7 : 2 que : 2 ue : 2	.2 95 ft.lb 70 % 80 %	Duty cycle Insulation Service fa Temperate	class actor	: 26.4 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 9 : 7 : 2 que : 2 ue : 2 : 1	0.4 A .2 95 ft.lb 70 % 80 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.15	
Rated current RC Rated torque ocked rotor tor breakdown torq Rated speed Heating constant Cooling constant	: 9 : 7 : 2 que : 2 ue : 2 : 1	0.4 A .2 95 ft.lb 70 % 80 % 780 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current RC Rated torque ocked rotor tor Breakdown torq Rated speed	: 9 : 7 : 2 que : 2 ue : 2 : 1	0.4 A .2 95 ft.lb 70 % 80 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.15 : 80 K	Date
Rated current RC Rated torque ocked rotor tor Breakdown torq Rated speed Heating constant Cooling constant Rev.	: 9 : 7 : 2 que : 2 ue : 2 : 1	0.4 A .2 95 ft.lb 70 % 80 % 780 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current RC Rated torque ocked rotor tor Breakdown torq Rated speed Heating constan Cooling constan	: 9 : 7 : 2 que : 2 ue : 2 : 1	0.4 A .2 95 ft.lb 70 % 80 % 780 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



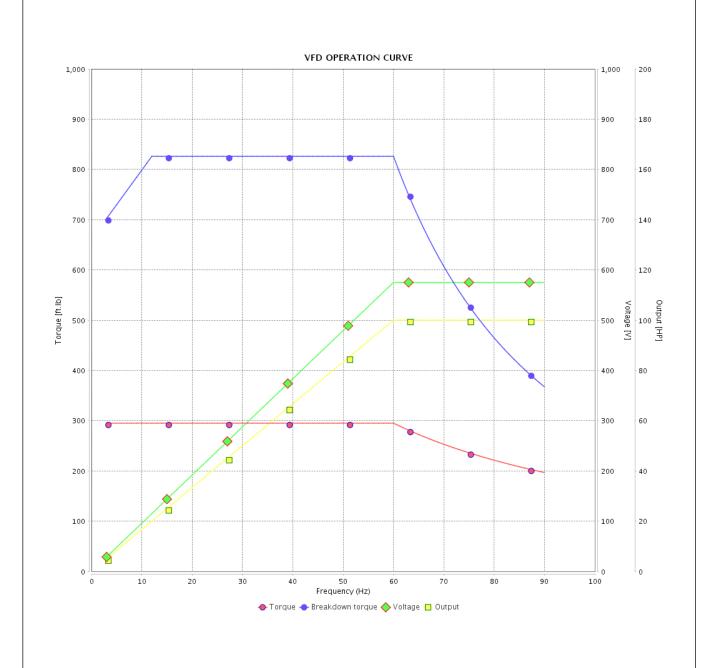
Customer

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11483103

Catalog #: 10018XT3H405T



Performance	nce : 575 V 60 Hz 4P					
Rated current : 90.4 A		0.4 A	Moment of inertia (J)		: 26.4 sq.ft.lb	
LRC	: 7	.2	Duty cycle		: Cont.(S1)	
Rated torque	: 2	95 ft.lb	Insulation class		: F	
Locked rotor torqu	ie : 2	70 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	80 %	Temperature rise		: 80 K	
Rated speed : 1780 rpm		Design		: B		
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