DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11165038 Catalog #: 20018ET3H447T-W22 Frame : 445/7T Locked rotor time : 28s (cold) 16s (hot) Output : 200 HP (150 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 : 184 A Protection degree : IP55 L. R. Amperes : 1251 A Cooling method : IC411 - TEFC LRC : 6.8x(Code G) Mounting : F-1 No load current : 56.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1785 rpm Noise level² : 73.0 dB(A) Starting method Slip : 0.83 % : Direct On Line Rated torque : 588 ft.lb Approx. weight³ : 2287 lb Locked rotor torque : 229 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 76.2 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 96.2 : 2778 lb Efficiency (%) 95.7 95.8 96.2 Max. traction Power Factor 0.82 0.85 0.50 0.73 Max. compression : 5065 lb Non drive end Drive end Bearing type 6319 C3 6316 C3 Sealing WSeal WSeal Lubrication interval 8000 h 10000 h Lubricant amount 45 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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



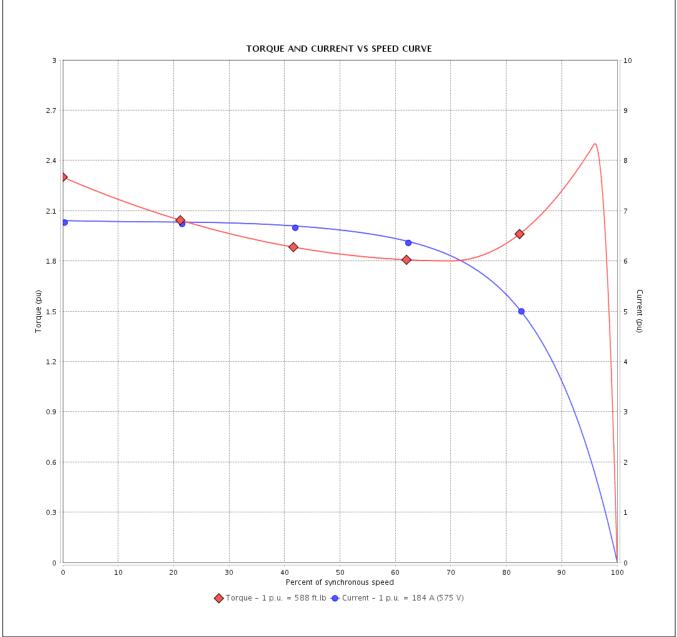
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165038

Catalog #: 20018ET3H447T-W22



Performance : 575 V 60 Hz 4P Rated current : 184 A Moment of inertia (J) : 76.2 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 588 ft.lb : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1785 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



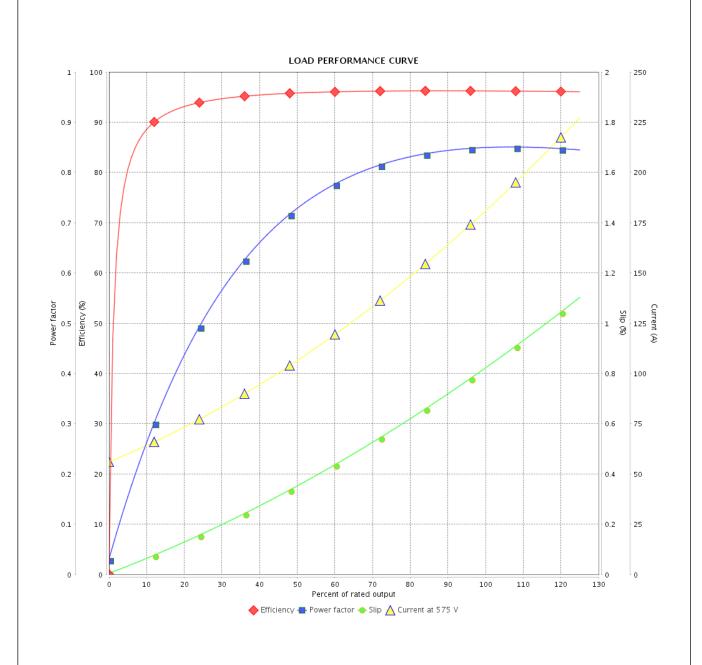
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165038

Phase

Catalog #: 20018ET3H447T-W22

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Performance	: 575 V 60 Hz 4P					
Rated current	: 184 A	Moment of inertia (J)		: 76.2 sq.ft.lb		
LRC	: 6.8	Duty cycle Insulation class		: Cont.(S1)		
Rated torque	: 588 ft.lb			: F		
Locked rotor torque	: 229 %	Service factor	or	: 1.15		
Breakdown torque	: 250 %	Temperature rise		: 80 K		
Rated speed	: 1785 rpm	Design		: B		
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



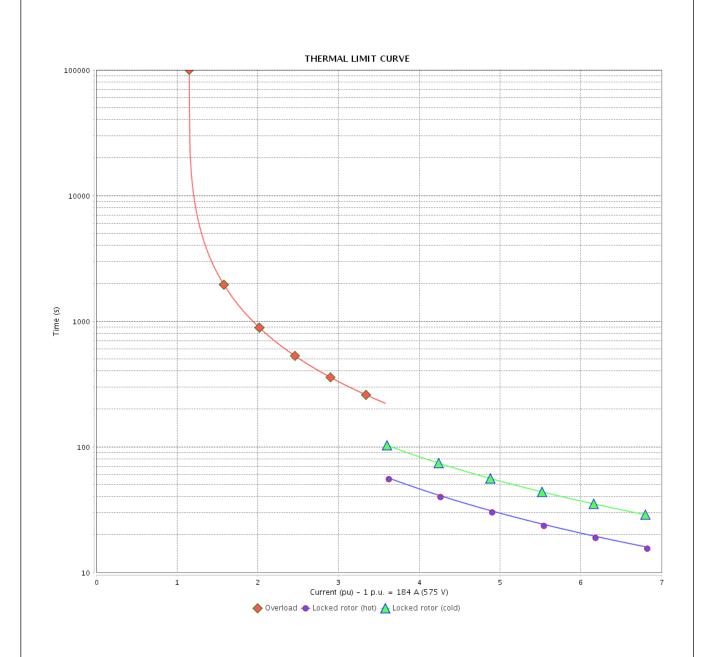
Customer	:				
Product line	: NEMA Premium Efficiency	Three	Product code :	11165038	
1 Toddet iiile	Phase				
			Catalog # :	20018ET3H4	17T-W22
Performance	: 575 V 60 Hz 4P				
Rated current	: 184 A	Moment o	of inertia (J)	: 76.2 sq.ft.lb	
LRC	: 6.8	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque	: 588 ft.lb : 229 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 250 %	Temperati		: 80 K	
Rated speed	: 1785 rpm	Design		: B	
Heating constant 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 :

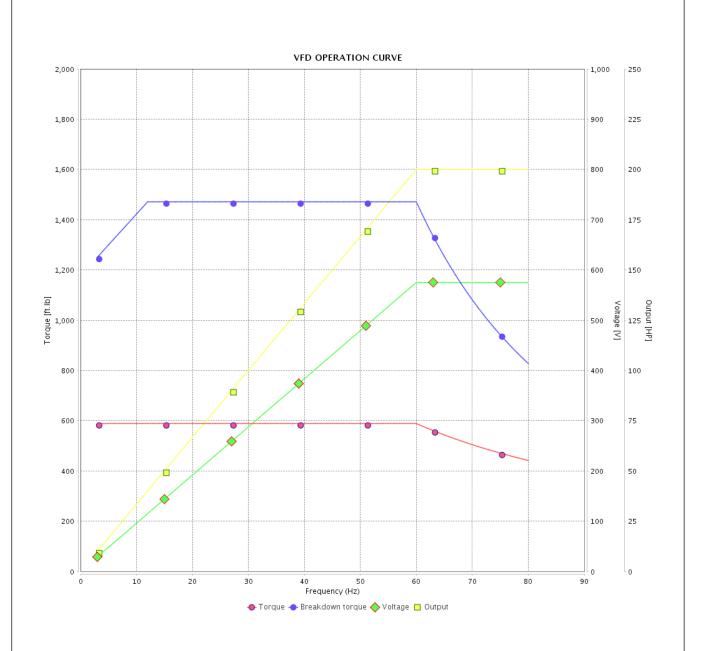
Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 11165038

Phase

Catalog #: 20018ET3H447T-W22



Performance : 575 V 60 Hz 4P : 184 A Rated current Moment of inertia (J) : 76.2 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class : 588 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1785 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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