DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13827809 Catalog #: 45018ET3GKD586/7-W22 Frame : 586/7T Locked rotor time : 45s (cold) 25s (hot) Output : 450 HP (330 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 501 A Protection degree : IP55 L. R. Amperes : 3758 A Cooling method : IC411 - TEFC LRC : 7.5x(Code H) Mounting : F-1 No load current : 160 A Rotation¹ : Both (CW and CCW) Rated speed : 1786 rpm Noise level² : 78.0 dB(A) Starting method Slip : 0.78 % : Direct On Line Rated torque : 1320 ft.lb Approx. weight³ : 3912 lb Locked rotor torque : 240 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Design : A 25% 50% 75% 100% Foundation loads Output Efficiency (%) 0.000 95.8 96.2 96.2 Max. traction : 4945 lb Power Factor 0.00 0.75 0.83 0.86 Max. compression : 8857 lb Drive end Non drive end NU-322 C3 Bearing type 6319 C3 Taconite Labyrinth Taconite Labyrinth Sealing Lubrication interval 4000 h 8000 h Lubricant amount 60 g 45 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

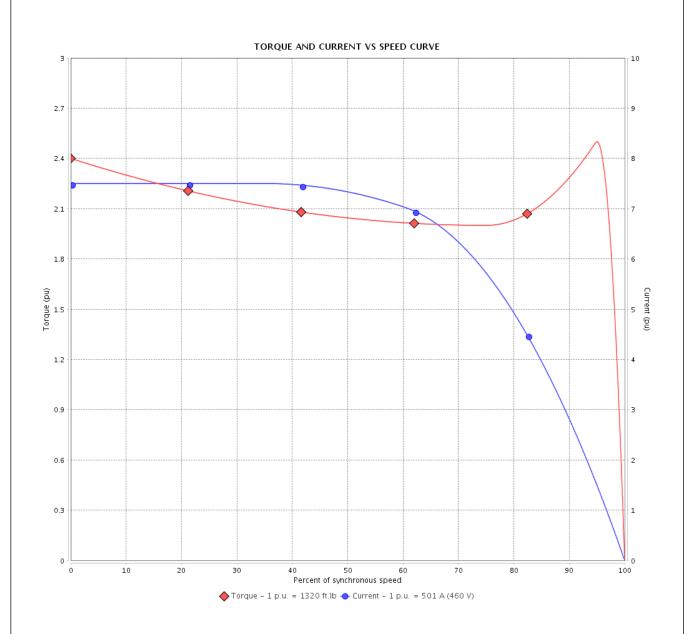
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13827809

Catalog #: 45018ET3GKD586/7-W22



Performance : 460 V 60 Hz 4P Rated current : 501 A Moment of inertia (J) **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1320 ft.lb : 240 % Locked rotor torque Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1786 rpm Design : A Locked rotor time : 45s (cold) 25s (hot)

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

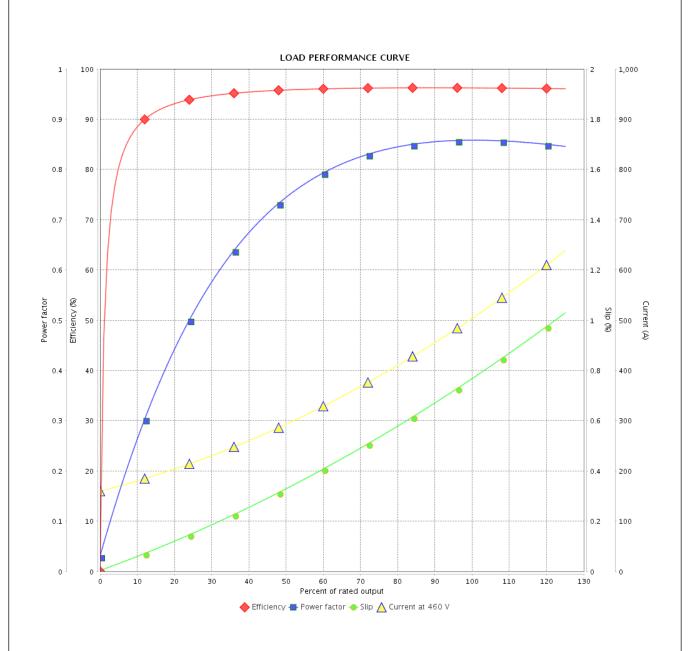
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13827809

Catalog #: 45018ET3GKD586/7-W22

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Performance : 460 V 60 Hz 4P Rated current : 501 A Moment of inertia (J) **LRC** : 7.5 Duty cycle : Cont.(S1) : 1320 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1786 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



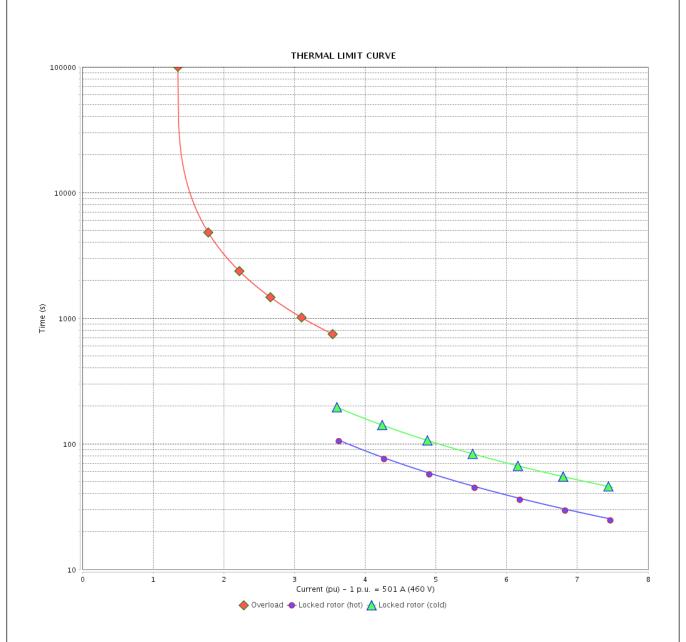
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

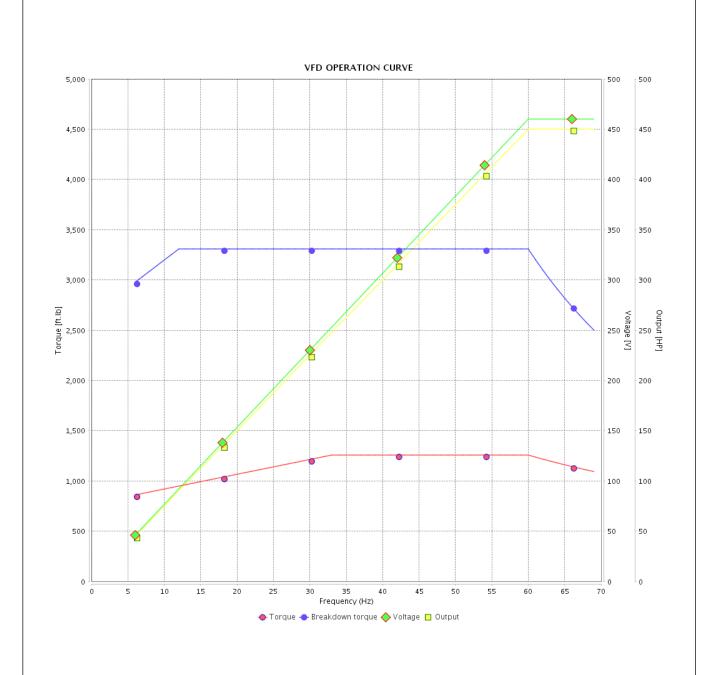


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13827809

Phase

Catalog #: 45018ET3GKD586/7-W22



Performance	:	: 460 V 60 Hz 4P						
Rated current		501 A	Moment of inertia (J)					
LRC		7.5	Duty cycle		: Cont.(S1)			
Rated torque	:	1320 ft.lb	Insulation class		: F			
Locked rotor torque		240 %	Service factor		: 1.15			
Breakdown torque	:	250 %	Temperature rise		: 80 K			
Rated speed	:	1786 rpm	Design		: A			
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