### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11856861 Catalog #: 00309ET3H215T-W22 Frame : 213/5T Locked rotor time : 79s (cold) 44s (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 : 3.64 A Protection degree : IP55 L. R. Amperes : 24.8 A Cooling method : IC411 - TEFC LRC : 6.8x(Code K) Mounting : F-1 No load current : 2.17 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 870 rpm Noise level<sup>2</sup> : 52.0 dB(A) Starting method Slip : 3.33 % : Direct On Line Rated torque : 18.1 ft.lb Approx. weight<sup>3</sup> : 182 lb Locked rotor torque : 229 % Breakdown torque : 275 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 2.11 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 85.5 85.5 : 190 lb Efficiency (%) 83.7 84.0 Max. traction Power Factor 0.50 0.63 0.71 0.29 Max. compression : 372 lb Drive end Non drive end 6207 ZZ Bearing type 6308 ZZ V'Ring Sealing V'Ring 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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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

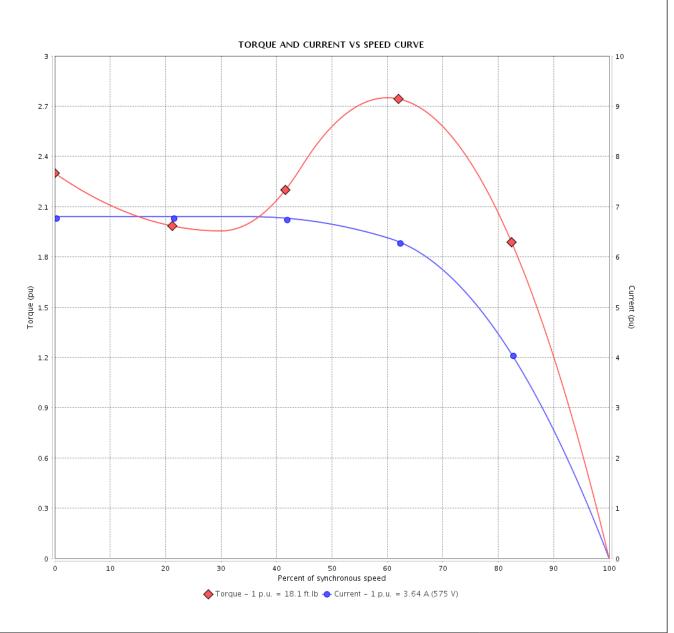


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11856861

Phase

Catalog #: 00309ET3H215T-W22



Performance : 575 V 60 Hz 8P Rated current : 3.64 A Moment of inertia (J) : 2.11 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.1 ft.lb : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 275 % Temperature rise : 80 K Rated speed : 870 rpm Design : B

Locked rotor time : 79s (cold) 44s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



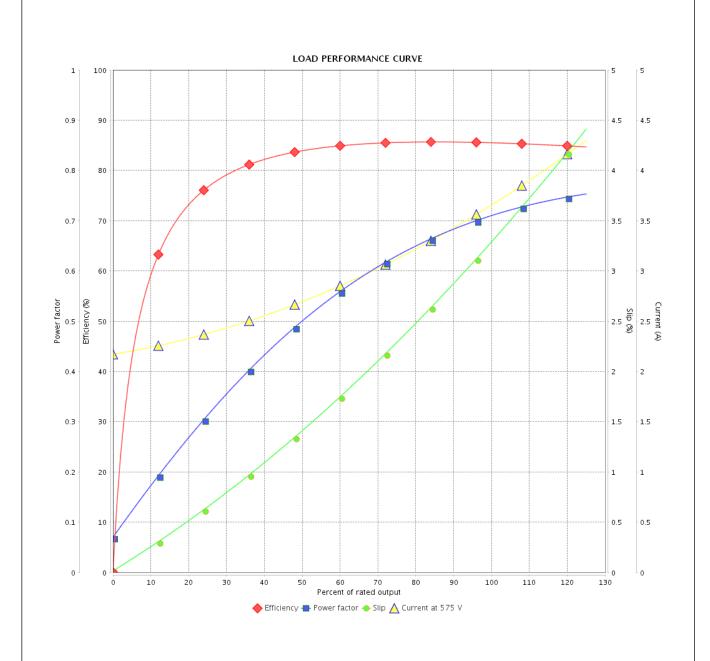
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11856861

Catalog #: 00309ET3H215T-W22



Performance	:	575 V 60 Hz 8P				
Rated current	:	3.64 A	4 A Moment of inertia (J)		: 2.11 sq.ft.lb	
LRC	:	: 6.8       Duty cycle         : 18.1 ft.lb       Insulation         : 229 %       Service fa         : 275 %       Temperatu         : 870 rpm       Design		· · ·	: Cont.(S1)	
Rated torque	:			class	: F	
Locked rotor torque	e :			ctor	: 1.25	
Breakdown torque				Temperature rise		
Rated speed	:				: B	Date
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



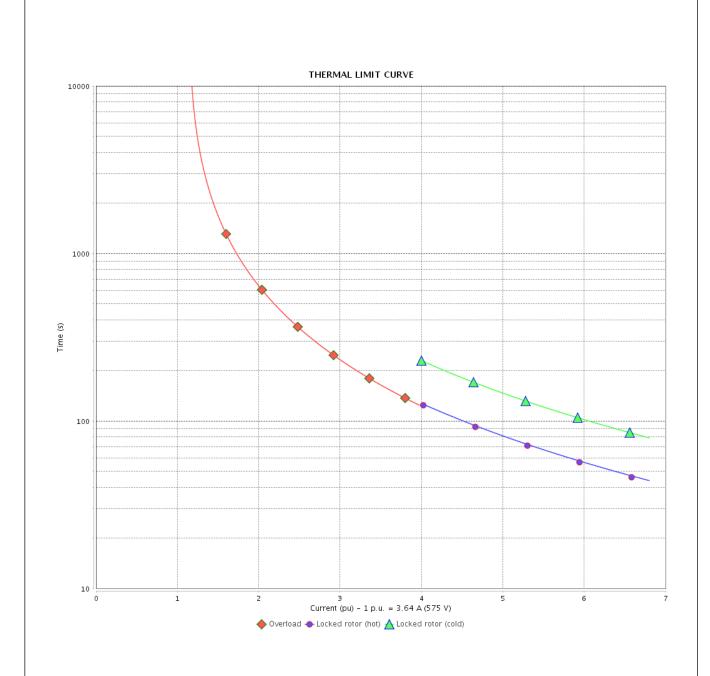
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11856861 00309ET3H2	15T-W22
Performance	: 575 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.64 A : 6.8 : 18.1 ft.lb : 229 % : 275 % : 870 rpm	8 Duty cycle 3.1 ft.lb Insulation 29 % Service fa 75 % Temperate		: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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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 :

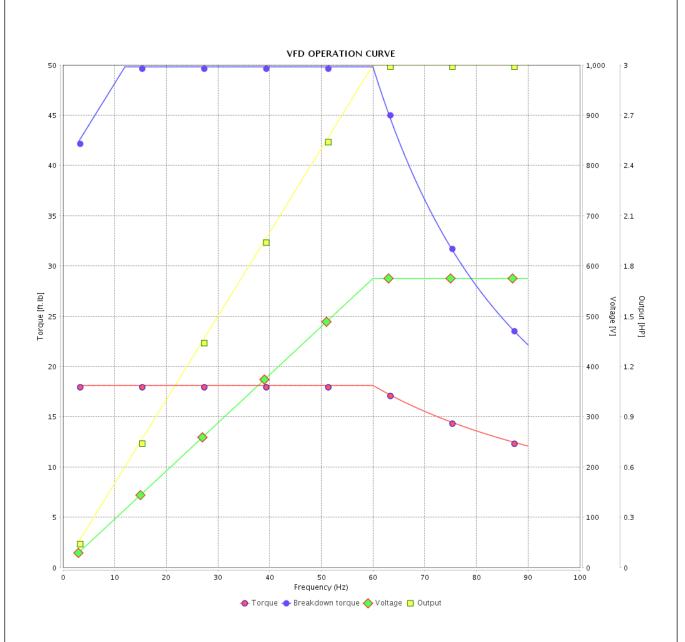
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11856861

Catalog #: 00309ET3H215T-W22

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Performance	: 575 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.64 A : 6.8 : 18.1 ft.lb : 229 % : 275 % : 870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.11 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Date

