

#### STANDARD MODELS: GB-41009-G0O-M, GB-41009-G1O-M

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

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## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12445969 Three-Phase Catalog #: 00718ET3E213TC-W22 Frame : 213/5TC Locked rotor time : 36s (cold) 20s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 208-230/460 V : 1000 m.a.s.l. Altitude Rated current : 19.9-18.4/9.18 A Protection degree : IP55 L. R. Amperes : 141-130/65.2 A Cooling method : IC411 - TEFC : 7.1x(Code H) LRC Mounting : F-1 No load current : 7.59-8.80/4.40 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1765 rpm Noise level<sup>2</sup> : 58.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 22.0 ft.lb Approx. weight<sup>3</sup> : 169 lb Locked rotor torque : 220 % Breakdown torque : 310 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.34 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.7 : 357 lb Efficiency (%) 88.6 89.5 91.0 Max. traction Power Factor 0.40 0.76 0.82 0.66 Max. compression : 525 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



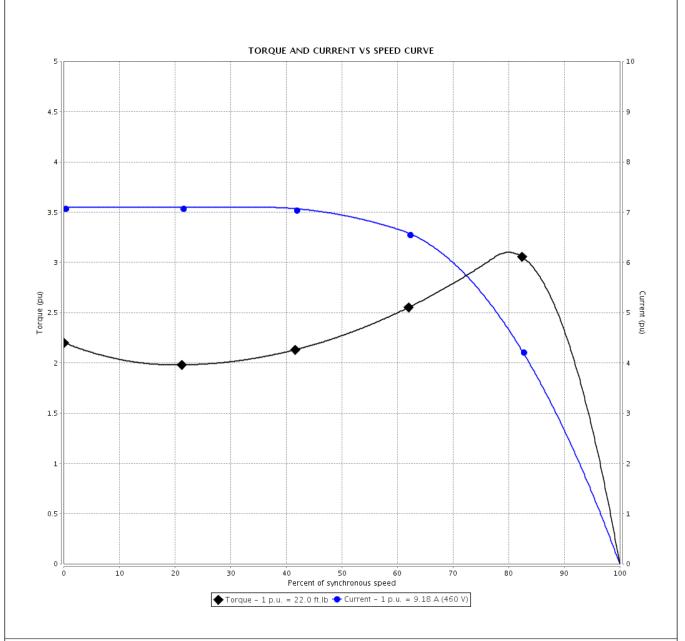
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12445969

Catalog #: 00718ET3E213TC-W22



Performance : 208-230/460 V 60 Hz 4P Rated current : 19.9-18.4/9.18 A Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 22.0 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



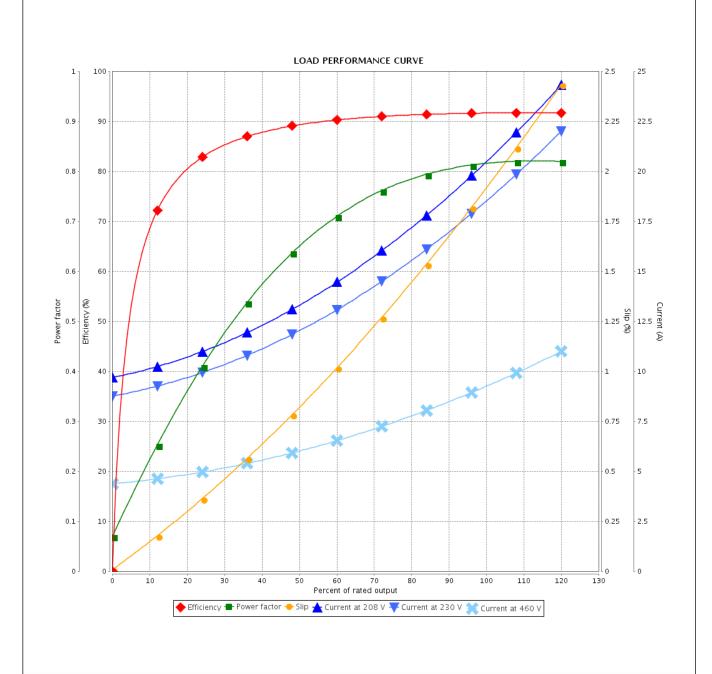
Customer

Product line : W22 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 00718ET3E213TC-W22

12445969



Performance :		208-230/460 V 60 Hz	4P			
Rated current		19.9-18.4/9.18 A Moment of inertia (J)		f inertia (J)	: 1.34 sq.ft.lb	
LRC		7.1	Duty cycle	Duty cycle		
Rated torque		22.0 ft.lb	Insulation class		: F	
Locked rotor torque		220 %	Service factor		: 1.25	
Breakdown torque	e :	310 %	Temperati	Temperature rise		
Rated speed	:	: 1765 rpm Design			: B	
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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



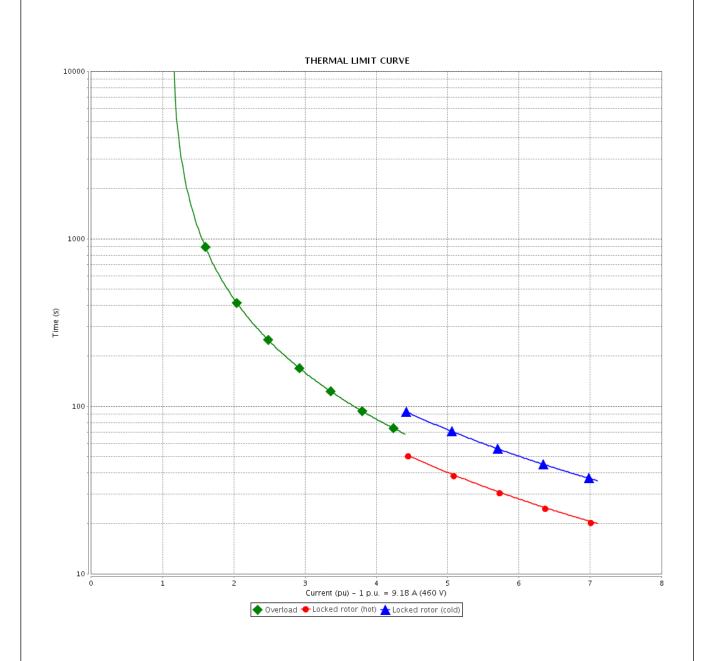
Customer	:					
Product line	:\	: W22 NEMA Premium Efficiency		Product code :	12445969	
		nree-Phase		Catalog # :	00718ET3E2 <sup>-</sup>	13TC W22
Performance		08-230/460 V 60 Hz 4P				
Rated current LRC	: 7.		Moment of Duty cycle		: 1.34 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		2.0 ft.lb 20 %	Insulation Service fac		: F : 1.25	
Breakdown torqu Rated speed	e : 3′	10 % 765 rpm	Temperatu Design		: 80 K : B	
Heating constant		•				
Cooling constant		01	Г	David 1	Oh I I	
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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

06/11/2019

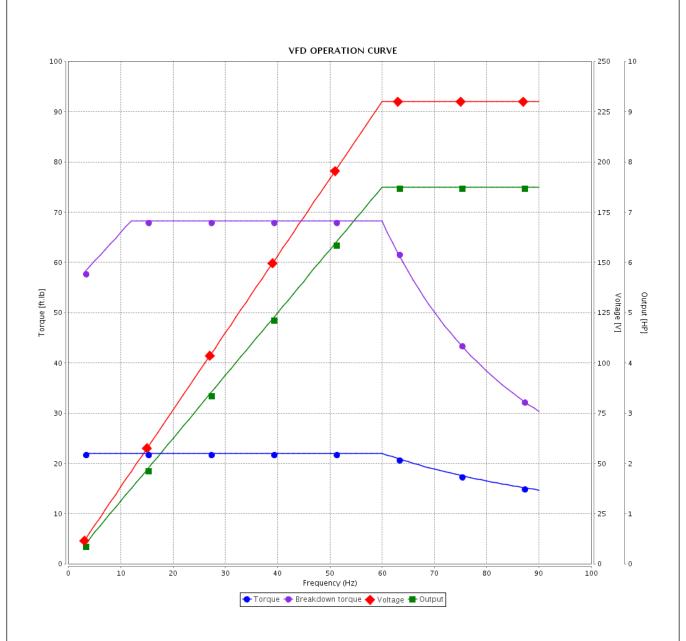
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12445969

Catalog #: 00718ET3E213TC-W22

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Performance : 208-230/460 V 60 Hz 4P : 19.9-18.4/9.18 A Rated current Moment of inertia (J) : 1.34 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 22.0 ft.lb Insulation class : F Rated torque : 220 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

