### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 13249038 Three-Phase Catalog #: 03012ET3E326TC-W22G Frame : 324/6TC Locked rotor time : 37s (cold) 21s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude : IP55 Rated current : 72.4/36.2 A Protection degree L. R. Amperes : 449/224 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 32.0/16.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1180 rpm Noise level<sup>2</sup> : 62.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 134 ft.lb Approx. weight<sup>3</sup> : 607 lb Locked rotor torque : 229 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 13.2 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 Efficiency (%) 91.5 91.7 93.0 Max. traction : 1239 lb Power Factor 0.82 0.40 0.65 0.76 Max. compression : 1846 lb Non drive end Drive end 6212 C3 Bearing type 6312 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 21 g 13 g

Mobil Polyrex EM

Notes

Lubricant type

USABLE @208V 79.2A SF 1.15 SFA 91.0A

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



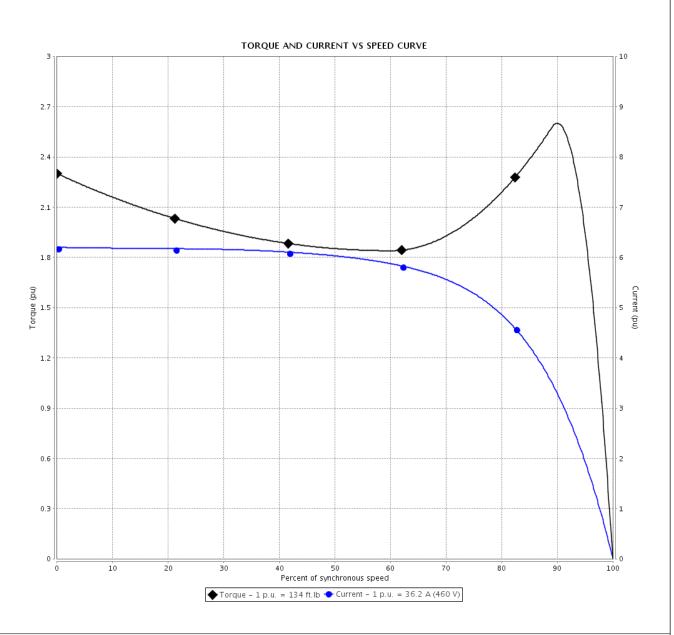
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13249038

Catalog #: 03012ET3E326TC-W22G



: 230/460 V 60 Hz 6P Performance Rated current : 72.4/36.2 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 134 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

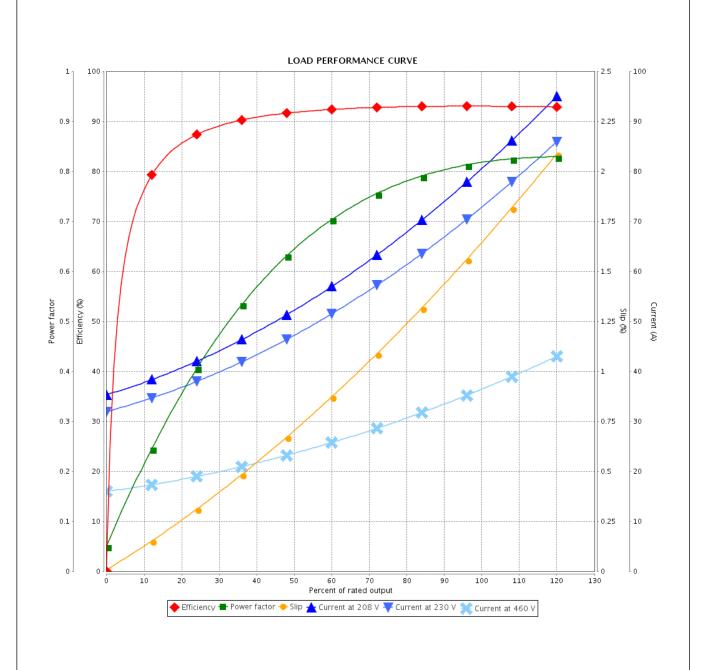


Customer

Product line : W22 NEMA Premium Efficiency Product code : 13249038

Three-Phase

Catalog #: 03012ET3E326TC-W22G



Performance	: 2	: 230/460 V 60 Hz 6P						
Rated current	: 7	2.4/36.2 A Moment of inertia (J)		f inertia (J)	: 13.2 sq.ft.lb			
LRC	: 6	5.2	Duty cycle	Duty cycle				
Rated torque	: 1	34 ft.lb	Insulation	Insulation class				
Locked rotor torque	e : 2	229 %	Service factor		: 1.25			
Breakdown torque	: 2	: 260 %		ıre rise	: 80 K			
Rated speed	: 1180 rpm		Design		: B			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



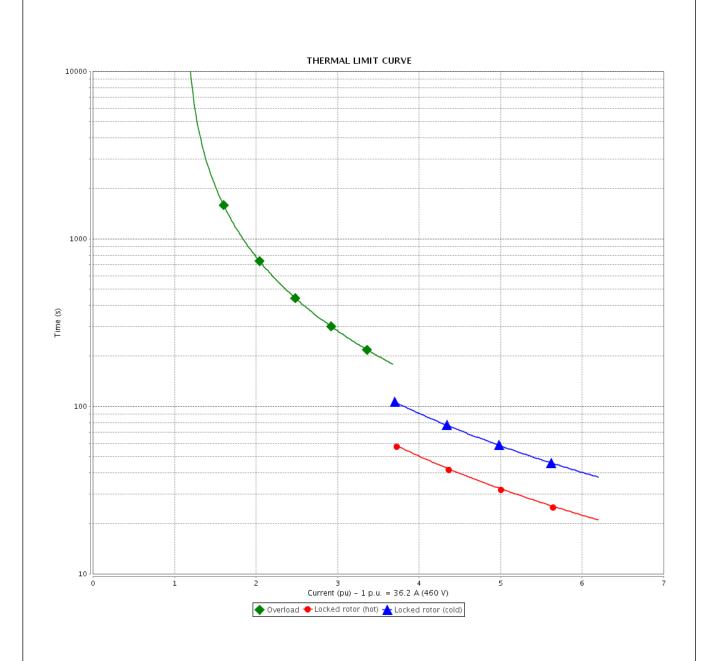
Customer		:				
Product line		: W22 NEMA Premium Efficie	encv	Product code :	13249038	
		Three-Phase	•			
				Catalog # :	03012ET3E3	26TC-W22G
Performance		230/460 V 60 Hz 6P				
Rated current LRC		72.4/36.2 A 6.2	Moment o Duty cycle	f inertia (J)	: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque		134 ft.lb	Insulation		: F	
Locked rotor tord		229 %	Service fa		: 1.25	
Breakdown torqu Rated speed		260 % 1180 rpm	Temperatu Design	ire rise	: 80 K : B	
					· <del>-</del>	
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 :

Checked by

Date

10/04/2020

Product line : W22 NEMA Premium Efficiency

Three-Phase

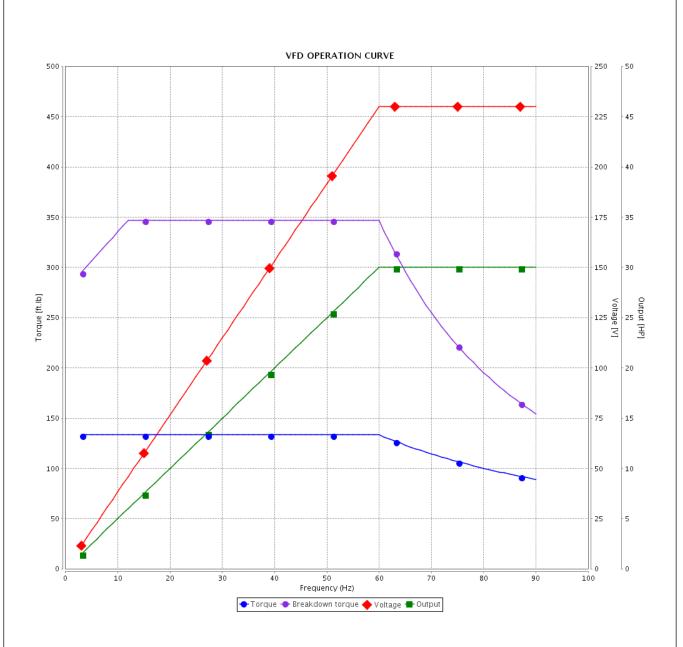
Product code: 13249038

Catalog #: 03012ET3E326TC-W22G

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Revision



Performance	: 23	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 13 jue : 22 ie : 26	2.4/36.2 A .2 34 ft.lb 29 % 60 % 180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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