

DIMENSIONS ARE II

07/19/2023 Released INCHES DRAWN 2/9/2023 PROJECT: E324 CHECKED BAM 07/19/2023 WAS: EX-E324-502

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1. COUPLING GUARD NOT SHOWN IN TOP VIEW.

2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

DWG. NO. **3D** GPV-25052-6 SHEET 1 OF 1 REV. A.1 07/19/2023

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11626903 Three-Phase Catalog #: 15012ET3E447T-W22 Frame : 445/7T Locked rotor time : 36s (cold) 20s (hot) Output : 150 HP (110 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 : 389-352/176 A Protection degree : IP55 L. R. Amperes : 2413-2182/1091 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 129-150/75.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1185 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 90.6 kgfm Approx. weight³ : 1043 kg Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 5.63 kgm² Design : B 50% 75% 100% Output Foundation loads 95.0 95.4 : 2172 kgf Efficiency (%) 95.8 Max. traction Power Factor 0.78 : 3215 kgf 0.67 0.82 Max. compression Non drive end Drive end Bearing type 6319 C3 6316 C3 Sealing WSeal WSeal Lubrication interval 13000 h 16000 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



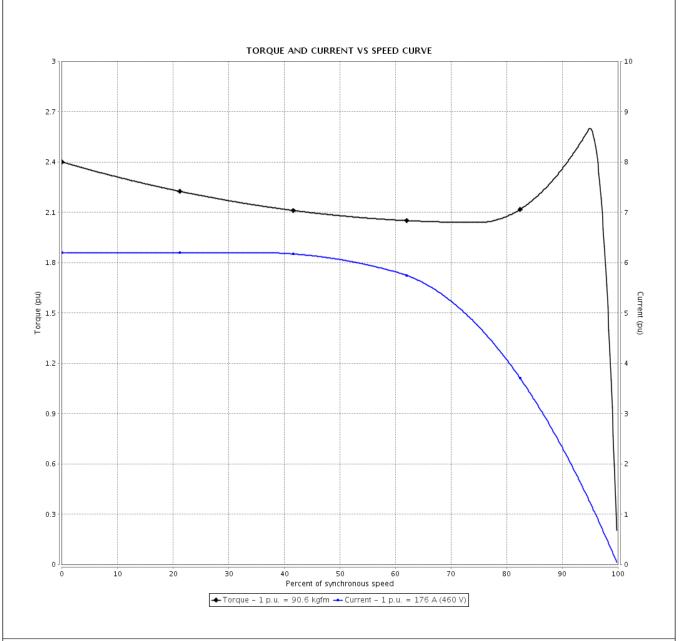
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11626903

Catalog #: 15012ET3E447T-W22



Performance : 208-230/460 V 60 Hz 6P Rated current : 389-352/176 A Moment of inertia (J) : 5.63 kgm² **LRC** : 6.2 Duty cycle : Cont.(S1) : 90.6 kgfm Insulation class Rated torque : F : 240 % Locked rotor torque Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



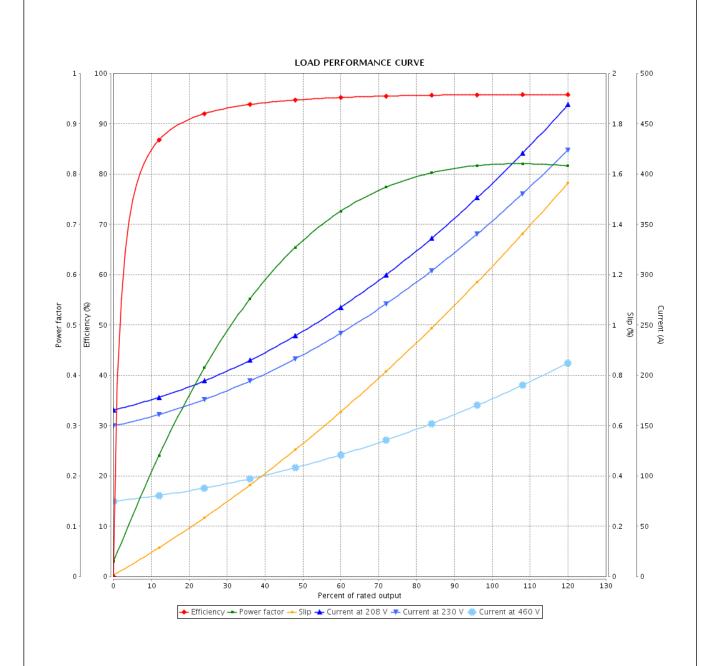
Customer

Product line : W22 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 15012ET3E447T-W22

11626903



	·							
Performance	: 2	: 208-230/460 V 60 Hz 6P						
Rated current	: 3	: 389-352/176 A Moment of inerti : 6.2 Duty cycle : 90.6 kgfm Insulation class		f inertia (J)	: 5.63 kgm²			
LRC	: 6			;	: Cont.(S1)			
Rated torque	: 9			lass : F				
Locked rotor torque		240 %	Service fa	Service factor : 1.15				
Breakdown torque	: 2	260 %	Temperature rise		: 80 K			
Rated speed	: 1185 rpm		Design	Design				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



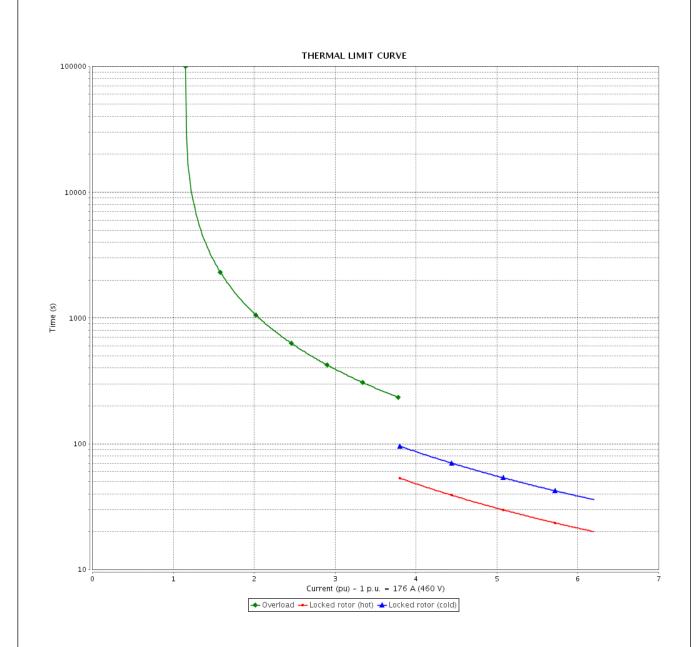
Customer	:					
Product line		W22 NEMA Premium Effici hree-Phase	ency	Product code :	11626903	
		mee i nade		Catalog # :	15012ET3E4	47T-W22
Performance	: 20	08-230/460 V 60 Hz 6P				
Rated current		89-352/176 A	Moment o	f inertia (J)	: 5.63 kgm²	
LRC Rated torque		6.2 Duty cycle 90.6 kgfm Insulation		e class	: Cont.(S1) : F	
Locked rotor torque	: 24	240 % Service fa		ctor	: 1.15	
Breakdown torque Rated speed		60 % 185 rpm	Temperatu Design	ire rise	: 80 K : 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



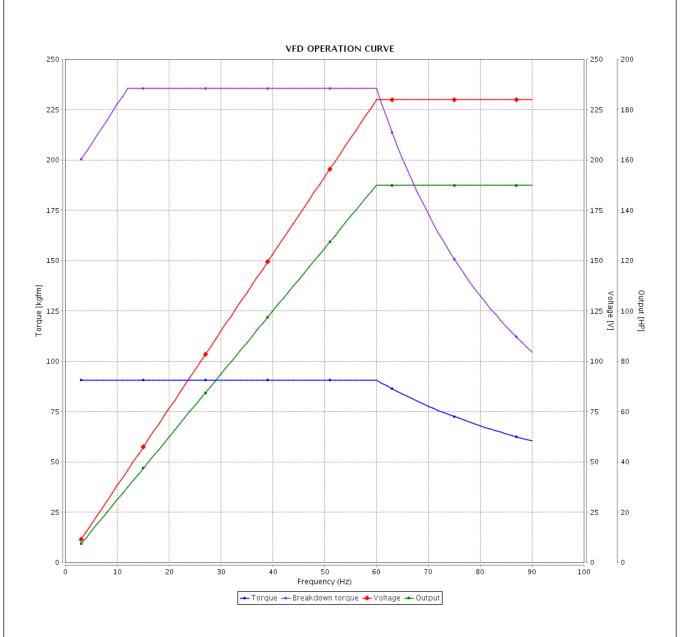
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11626903

Catalog #: 15012ET3E447T-W22



Performance	: 208-230/460 V 60 Hz 6P	: 208-230/460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 389-352/176 A : 6.2 : 90.6 kgfm : 240 % : 260 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.63 kgm² : Cont.(S1) : F : 1.15 : 80 K : B					
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23/05/2018

Date

