

DIMENSIONS ARE II

THIS DRAWING IS THE PROPERTY OF VIKING PUMP, INC. AND IS PROPRIETARY IN GENERAL AND DETAIL. IT SHALL NOT BE COPIED OR ITS CONTENTS REVEALED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF VIKING PUMP, INC. SHEET 1 OF 1 REV. A.1 DWG. NO. 07/19/2023 Released INCHES **3D** GPV-25051-4 DRAWN 2/9/2023 PROJECT: E324 07/19/2023 CHECKED BAM 07/19/2023 WAS: EX-E324-505

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	23/05/2018			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



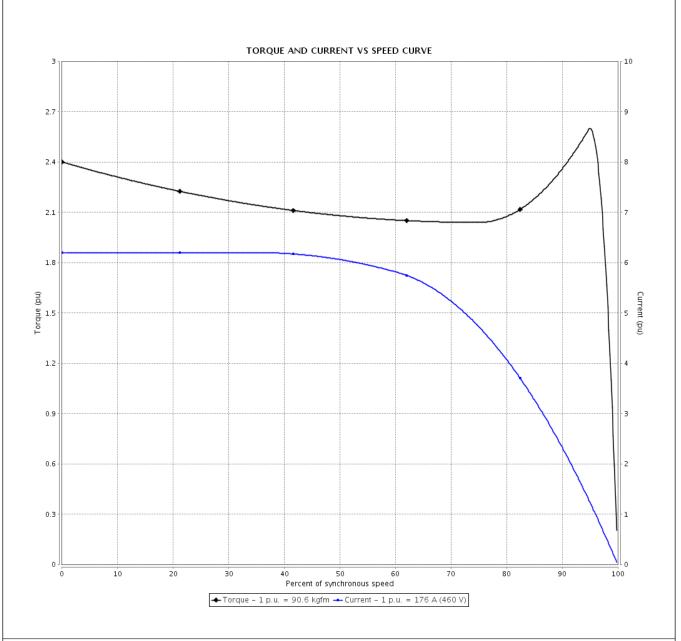
Customer :

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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	23/05/2018			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



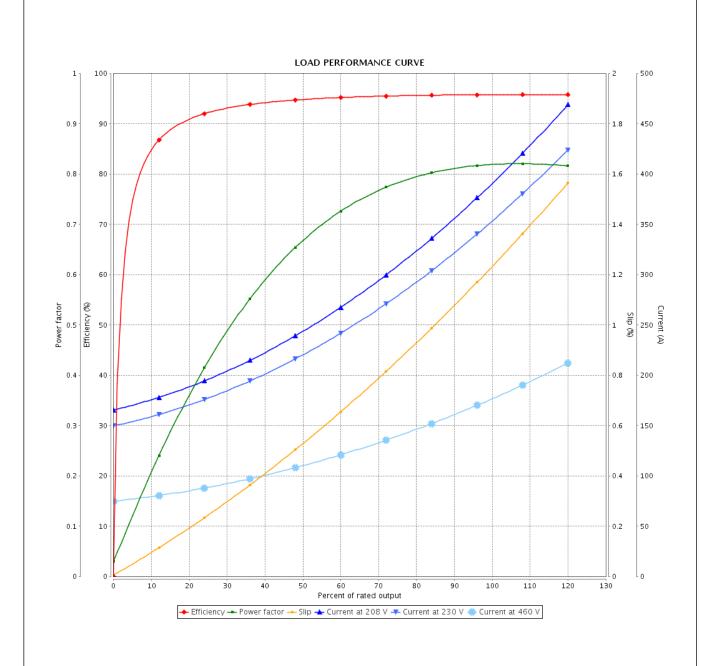
Customer

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				
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Data	23/05/2018				3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



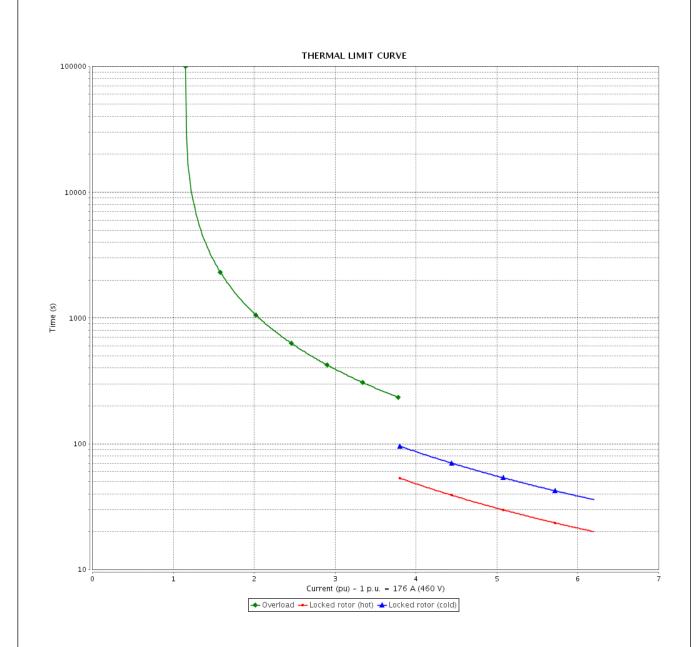
Customer	:					
Product line		W22 NEMA Premium Effici hree-Phase	ency	Product code :	11626903	
		mee i nade		Catalog # :	15012ET3E4	47T-W22
Performance	: 20	08-230/460 V 60 Hz 6P				
Rated current		89-352/176 A	Moment o	f inertia (J)	: 5.63 kgm²	
LRC Rated torque		6.2 Duty cycle 90.6 kgfm Insulation		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						
Rev.		Changes Summary		Performed	Checked	Date
Dorformed by		T				
Performed by Checked by		-			Page	Revision
Checked by	00/05/03/3	_			1 aye	IZENISION

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	23/05/2018			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



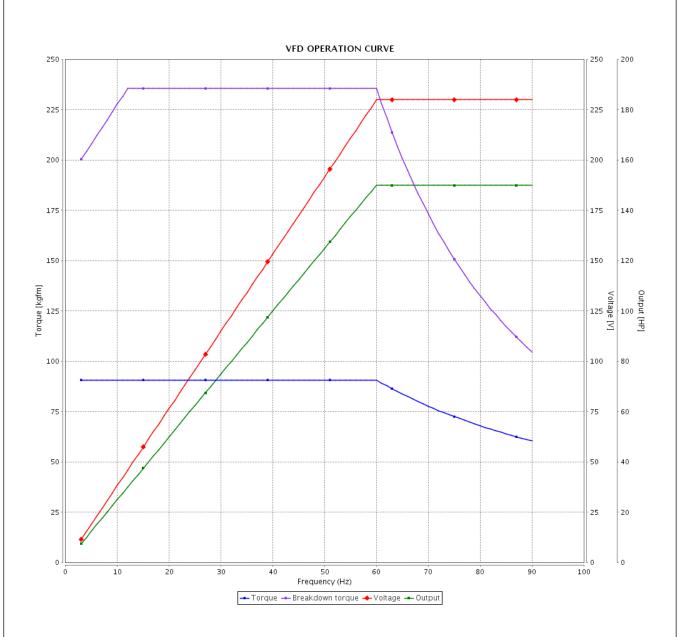
Customer :

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					
Rev.	Changes Summary	Performed	Checked	Date				
Performed by			_					
Checked by			Page	Revision				

6/6

23/05/2018

Date

