

DIMENSIONS ARE IN 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-25073-6 DRAWN 2/9/2023 PROJECT: E324 07/19/2023 CHECKED BAM 07/19/2023 WAS:

DATA SHEET



Customer	:							
Product line		: W22 NEMA Premium Efficie Three-Phase			ency Product code :		11549071	
		11110	ee-i ilase			Catalog # :	20012ET30	9447T-W22
Frame		: 445	 5/7T		Locked	rotor time	: 27s (cold)	15s (hot)
		: 200	200 HP (150 kW)			ature rise	: 80 K	,
Poles : 6		: 6			Duty cycle		: Cont.(S1)	
Frequency		: 60	60 Hz		Ambient temperature		: -20°C to +40°C	
Rated voltage		: 460) V		Altitude		: 1000 m.a.s.l.	
Rated current			37 A		Protection degree		: IP55	
L. R. Amperes			492 A		Cooling method		: IC411 - TEFC	
LRC			x(Code G)		Mountir		: F-1	
No load current		: 94.			Rotatio		: Both (CW	
Rated speed			38 rpm		Noise le		: 69.0 dB(A	,
Slip		: 1.0				method	: Direct On	Line
Rated torque			1 ft.lb		Approx	. weight³	: 2493 lb	
Locked rotor tor		: 229						
Breakdown torq	ue	: 240) %					
Insulation class		: F	F					
Service factor	:- (1)	: 1.1						
Moment of inert	ia (J)		5 sq.ft.lb					
Design		: B						
Output	25%	50%	75%	100%		ion loads 	5005 !!	
Efficiency (%)	94.5	95.0	95.4	95.8	Max. tra		: 5325 lb	
Power Factor	0.43	0.68	0.79	0.83	Max. co	mpression	: 7817 lb	
Losses at norma	tive operat	ing points	s (speed;torqu	e), in perce	ntage of r	ated output power		
P1 (0,9;1,0)	P2 (0,5		P3 (0,25;1,0)		,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,2
4.7	4.0)	3.6	2	2.4	1.7	1.2	0.8
5			Drive 6			Non drive en	<u>d</u>	
Bearing type			6319 C3 WSeal			6316 C3		
Sealing		:				WSeal		
Lubrication inter		:	13000 h 45 g			16000 h		
Lubricant amou Lubricant type	nt	:	45		34 g obil Polyrex EM			
Lubricant type		•		IVIO	Dil i Olyica	Λ LIVI		
Notes								
This revision rep		cancel the	e previous one	e, which		are average values	s based on tests w	

- (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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



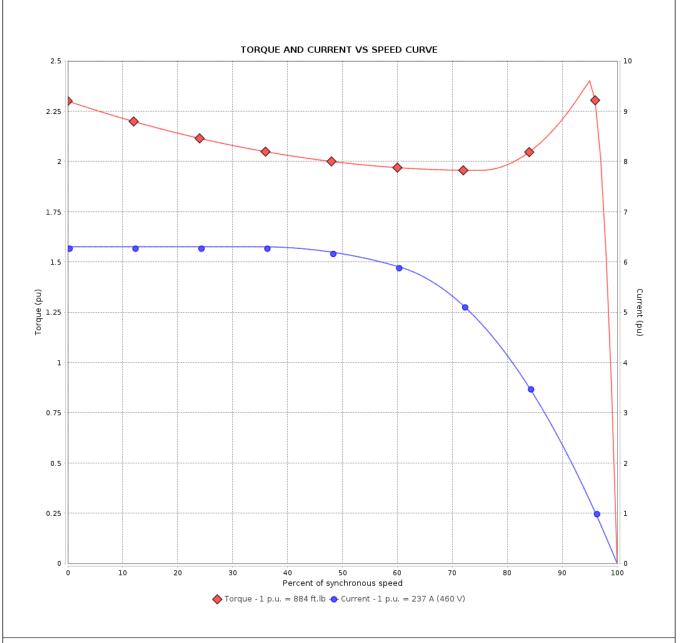
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11549071

Catalog #: 20012ET3G447T-W22



Performance : 460 V 60 Hz 6P Rated current : 237 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : F : 884 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 1.15 : 80 K Breakdown torque : 240 % Temperature rise

Rated speed : 1188 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

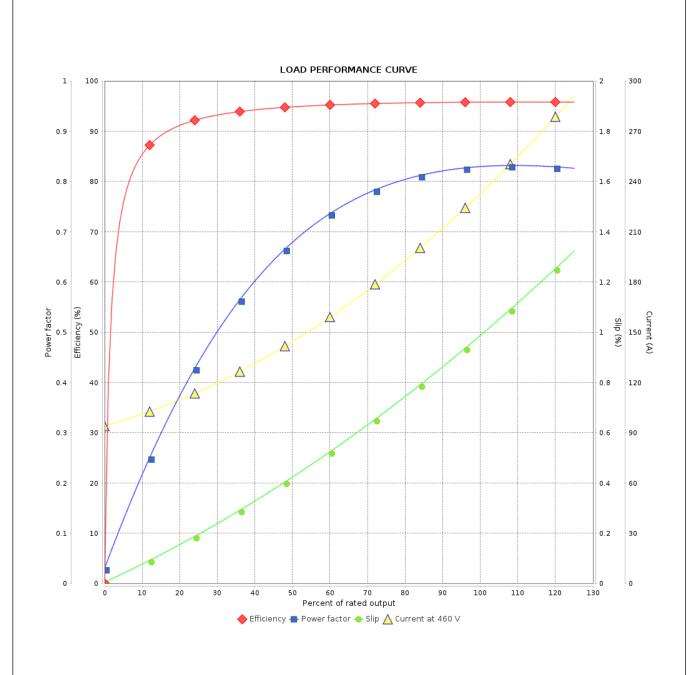
Product line : W22 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #:

11549071

20012ET3G447T-W22



Performance	: 4	60 V 60 Hz 6P				
Rated current	: 2	Moment of inertia (J)		: 145 sq.ft.lb		
LRC		.3	Duty cycle		: Cont.(S1)	
Rated torque		884 ft.lb Insulation class		lass : F		
Locked rotor torque		29 %	Service factor		: 1.15	
Breakdown torque	: 2	: 240 % Temper : 1188 rpm Design		Temperature rise : 80 K Design : B		
Rated speed	: 1					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



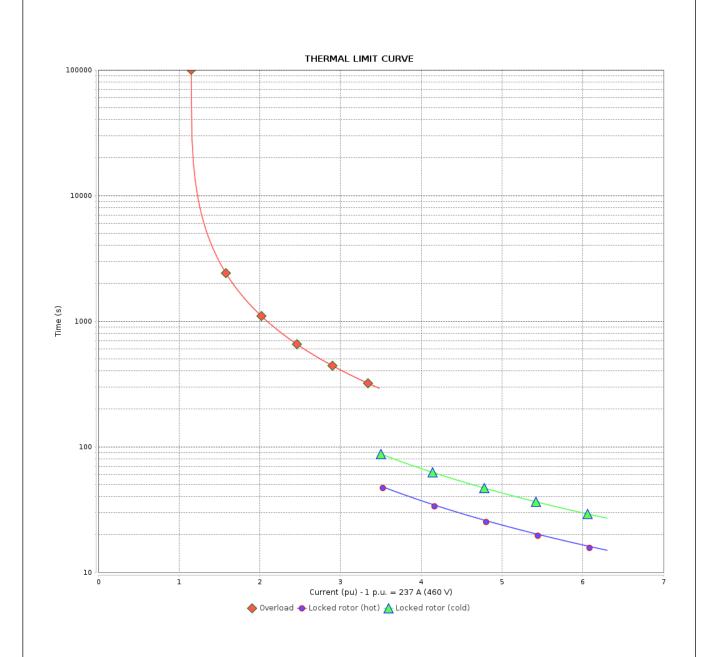
Customer	:			
Product line	: W22 NEMA Premium Effic Three-Phase	iency Product code : Catalog # :	11549071 20012ET3G4	47T-W22
		Catalog # .	20012E13G4	
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 460 V 60 Hz 6P : 237 A : 6.3 : 884 ft.lb : 229 % : 240 % : 1188 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 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



Revision

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Customer :

Checked by

Date

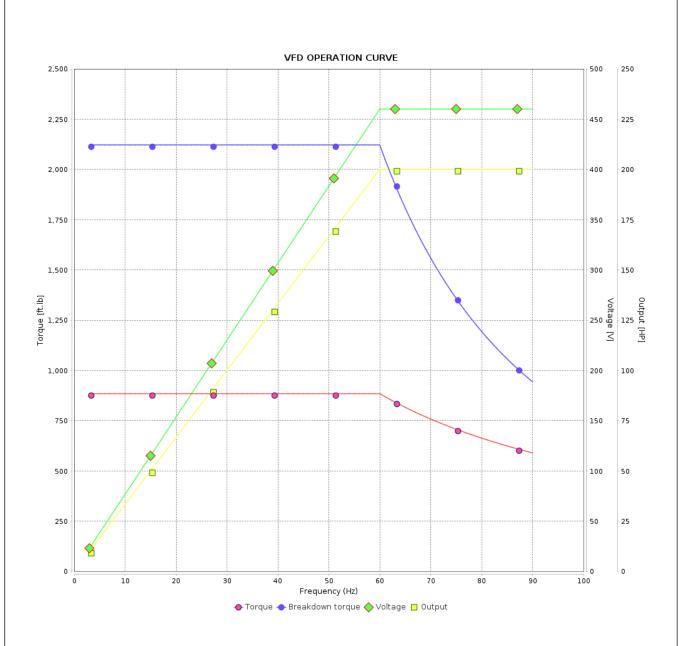
27/09/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11549071

Catalog #: 20012ET3G447T-W22



Performance : 460 V 60 Hz 6P : 237 A Rated current Moment of inertia (J) : 145 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : 884 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1188 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

