

#### STANDARD MODELS: GB-41013-G0O-M, GB-41013-G1O-M

STATE	Released	07/16/2021	DIMENSIONS ARE IN INCHES	VIKING
DRAWN	bmanternach	7/1/2021	PROJECT:E331	
CHECKED	JAG	07/16/2021	WAS:	PUIVIP

VIKING PUMP, INC. A Unit of IDEX Corporatio Cedar Falls, IA 50613 U.S.A.

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.

DWG. NO.

SHEET 1 OF 1

ALL DIMENSIONS ARE FOR REFERENCE ONLY.

REV. A.0

GPV-1013-042-U

07/16/2021

## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11438075 Three-Phase Catalog #: 05018ET3E326TC-W22 Frame : 324/6TC Locked rotor time : 27s (cold) 15s (hot) Output : 50 HP (37 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 : 131-118/59.2 A Protection degree : IP55 L. R. Amperes : 812-734/367 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 40.5-47.0/23.5 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1775 rpm Noise level<sup>2</sup> : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight<sup>3</sup> : 610 lb Locked rotor torque : 229 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.16 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 94.1 Efficiency (%) 93.0 94.5 Max. traction : 1477 lb Power Factor 0.77 0.83 : 2088 lb 0.66 Max. compression 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 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	27/02/2020			1/6	

## TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage



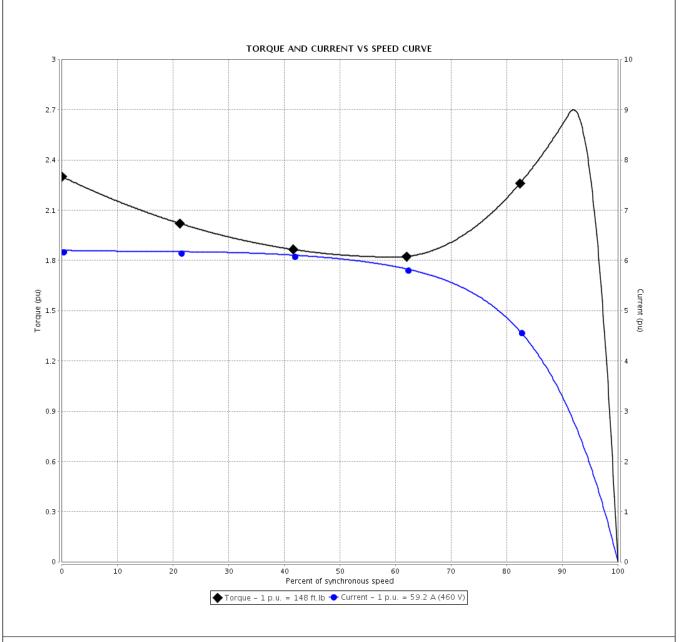
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438075

Catalog #: 05018ET3E326TC-W22



Performance : 208-230/460 V 60 Hz 4P Rated current : 131-118/59.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/02/2020			2/6	

# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

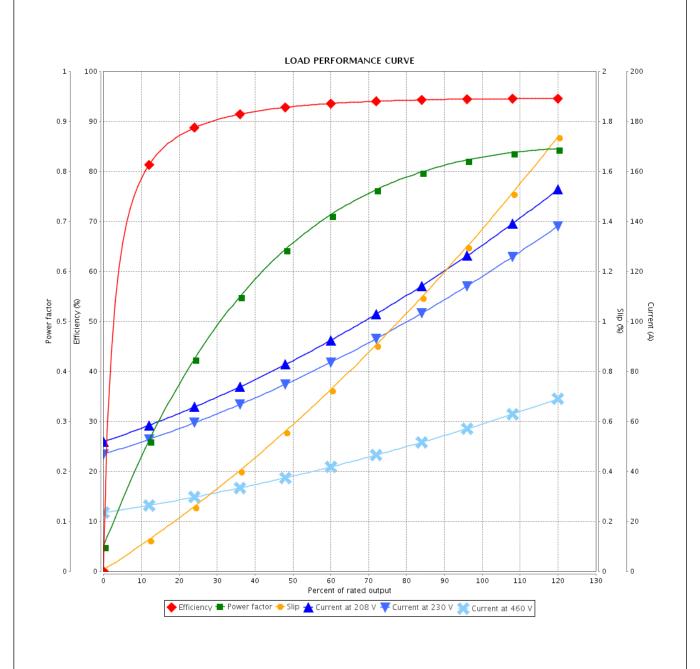


Customer

Product line : W22 NEMA Premium Efficiency Product code : 11438075

Three-Phase

Catalog #: 05018ET3E326TC-W22



D . (		200 000/400 1/ 00 1/	1D					
Performance	: 2	: 208-230/460 V 60 Hz 4P						
Rated current	: 1	I31-118/59.2 A	Moment of inertia (J)		: 9.16 sq.ft.lb			
LRC	: 6	3.2	Duty cycle	Duty cycle				
Rated torque	: 1	148 ft.lb	Insulation class		: F			
Locked rotor torque	e :2	229 %	Service fa	Service factor		: 1.25		
Breakdown torque	: 2	: 270 % Temp : 1775 rpm Desig		ıre rise	: 80 K			
Rated speed	: '				: B			
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Data	27/02/2020				3/6			

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



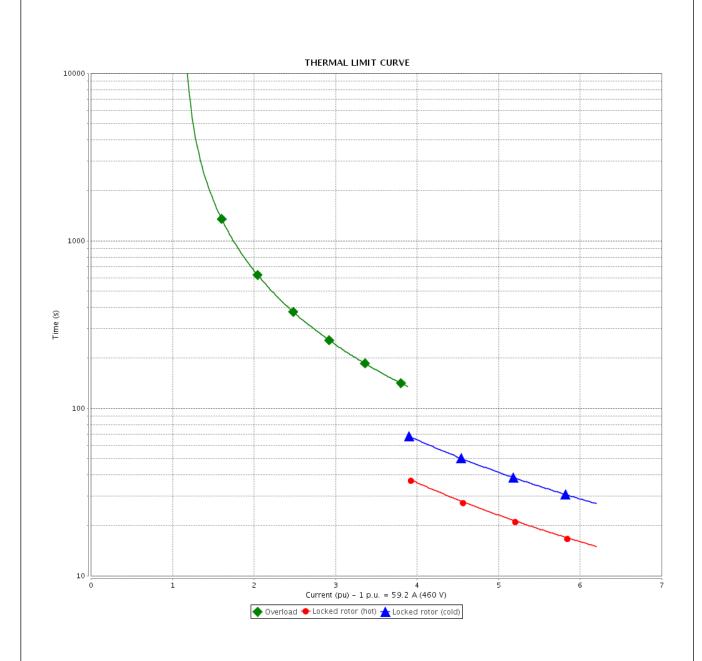
Customer	:				·	
Product line		N22 NEMA Premium Effici	ency I	Product code :	11438075	
		hree-Phase		Catalog # :	05018ET3E32	P6TC-W22
					03010213232	LO 1 O-VVZZ
Performance	: 20	08-230/460 V 60 Hz 4P				
Rated current		31-118/59.2 A	Moment of	f inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 6. : 14	2 48 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	e : 22	29 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		70 % 775 rpm	Temperatu Design	ire rise	: 80 K : B	
	. 11	· · - · · · · · · · · · · · · · · · · ·	_ 55,911		· <del>-</del>	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
		,				
Performed by			ļ			
Checked by					Page	Revision
D-4	07/00/0000	1			1.40	

# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/02/2020			5/6	

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

27/02/2020

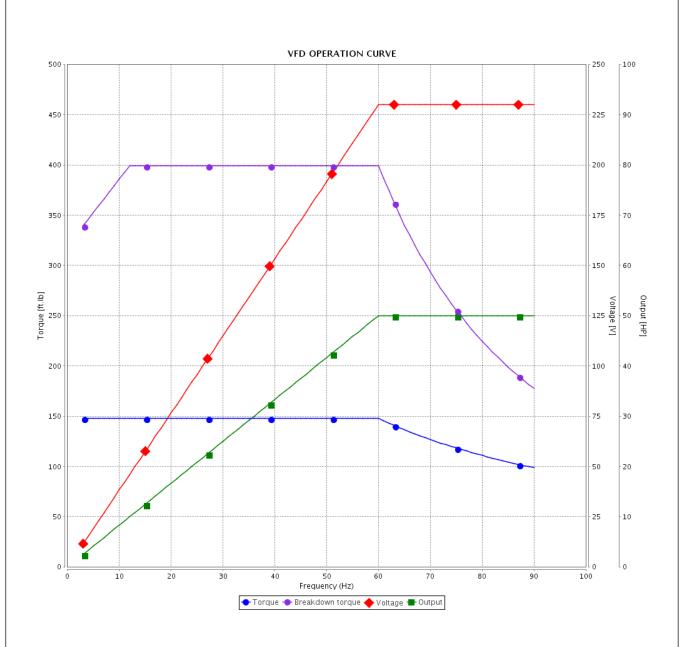
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438075

Catalog #: 05018ET3E326TC-W22

6/6



Performance : 208-230/460 V 60 Hz 4P : 131-118/59.2 A Rated current Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 Insulation class : 148 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

