

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STANDARD MODELS: GB-41005-G0O-M, GB-41005-G1O-M

 STATE
 Released
 09/07/2021
 DIMENSIONS ARE IN INCHES

 DRAWN
 bmanternach
 9/7/2021
 PROJECT:E331

 CHECKED
 BAM
 09/07/2021
 WAS:

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 DETIAL IT SHALL NOT BE COPIED OR ITS CONTENTS REVEALED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF VIKING PUMP, INC.

3D GPV-10

GPV-1005-004-U

REV. A.0

05-004-U | 09/07/2021

SHEET 1 OF 1

DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11440444 Catalog #: 02018ET3E256TC-W22 Frame : 254/6TC Locked rotor time : 54s (cold) 30s (hot) Output : 20 HP (15 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 Rated current : 48.2/24.1 A Protection degree : IP55 L. R. Amperes : 333/166 A Cooling method : IC411 - TEFC LRC : 6.9x(Code H) Mounting : F-1 No load current : 19.2/9.60 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 343 lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.10 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 91.7 92.4 93.0 Max. traction : 723 lb Power Factor 0.68 0.79 0.84 Max. compression : 1065 lb Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P1 (0,9;1,0) P7 (0,25;0,25) 7.5 6.4 5.8 3.6 2.5 1.6 1.1 Drive end Non drive end Bearing type 6309 C3 6209 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 13 q 9 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 53.3A SF 1.15 SFA 61.3A

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		1		Page	Revision
Date	13/11/2023			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



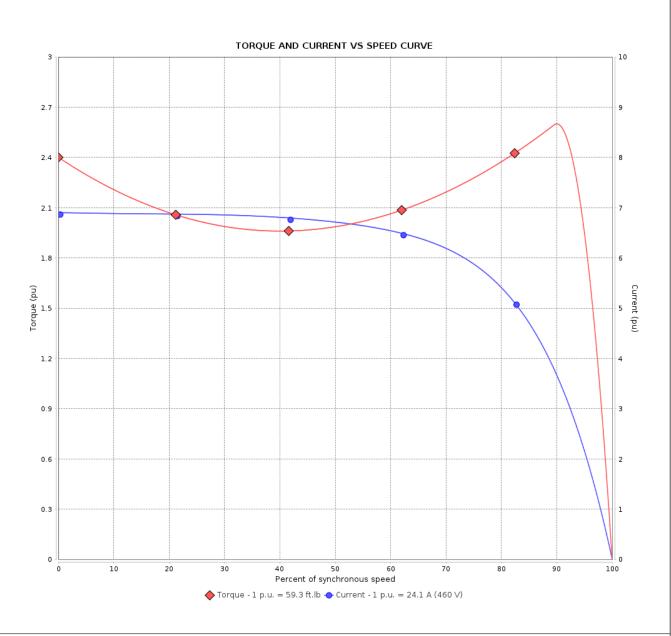
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11440444

Catalog #: 02018ET3E256TC-W22



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 48.2/24.1 A : 6.9 : 59.3 ft.lb : 240 % : 260 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K
Rated speed	: 1770 rpm	Design	: B
Looked votov times	. E4a (aald) 20a (bat)		

Locked rotor time : 54s (cold) 30s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/11/2023			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



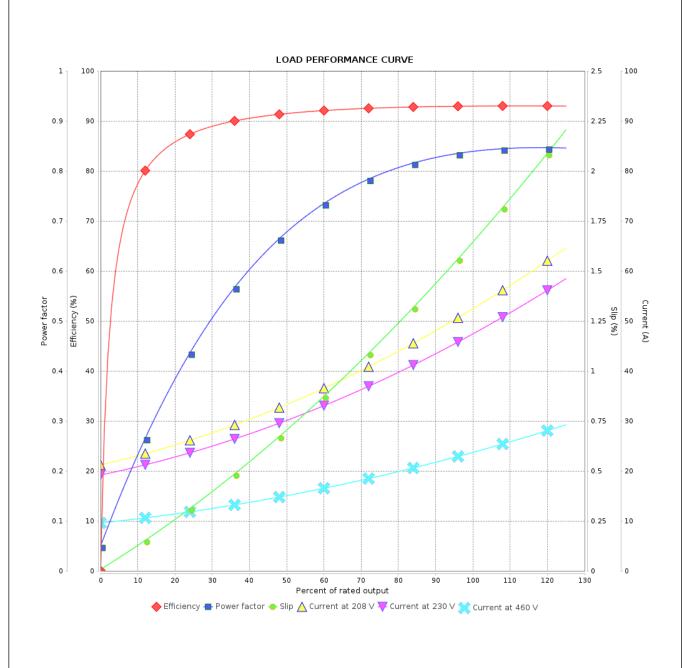
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11440444

Catalog #: 02018ET3E256TC-W22



Performance : 23		230/460 V 60 Hz 4P					
Rated current : 48		8.2/24.1 A	Moment o	Moment of inertia (J)			
LRC : 6.9		.9	Duty cycle	Duty cycle			
Rated torque : 59		9.3 ft.lb	Insulation class		: F		
Locked rotor torq	ue : 2	40 %	Service fa	Service factor			
		60 %	Temperati	Temperature rise			
Rated speed	: 1	770 rpm	Design		: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by		-			Page	Revision	
Date	13/11/2023	1			3/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



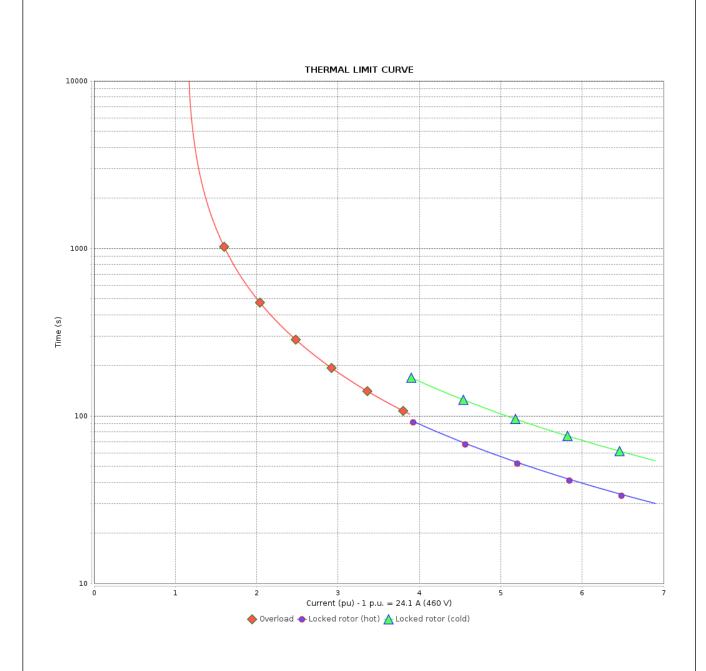
Customer	:			
Product line	: W22 NEMA Premium Efficiency	Three- Product code	: 11440444	
	Phase	Catalog # :	02018ET3E	256TC-W22
Performance	: 230/460 V 60 Hz 4P			
Rated current LRC	: 48.2/24.1 A : 6.9	Moment of inertia (J) Duty cycle	: 3.10 sq.ft.lb	
Rated torque	: 59.3 ft.lb	Insulation class	: Cont.(S1) : F	
Locked rotor tord		Service factor	: 1.25	
Breakdown torqı Rated speed	ue : 260 % : 1770 rpm	Temperature rise Design	: 80 K : B	
			. –	
Heating constant Cooling constant				
Rev.	Changes Summary	Performed	d Checked	Date
Performed by		l		
Checked by			Page	Revision
Date	13/11/2023		4/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/11/2023			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/11/2023

Product line : W22 NEMA Premium Efficiency Three-

Phase

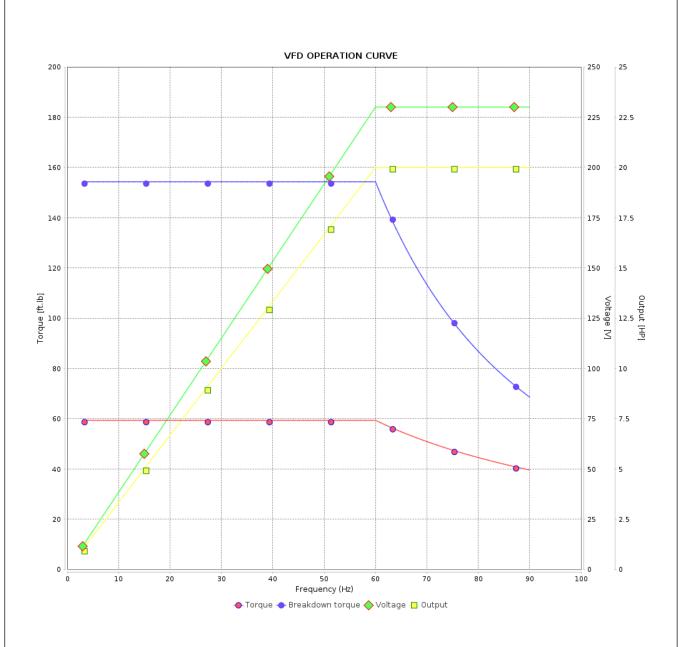
Product code: 11440444

Catalog #: 02018ET3E256TC-W22

Page

6/6

Revision



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 48.2/24.1 A : 6.9 : 59.3 ft.lb : 240 % : 260 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.10 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

