

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-25102-5 DRAWN 2/9/2023 PROJECT: E324 07/19/2023 CHECKED BAM 07/19/2023 WAS: EX-E324-504

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11408296 Three-Phase Catalog #: 35012ET3G449T-W22 Frame : L447/9T Locked rotor time : 41s (cold) 23s (hot) Output : 350 HP (260 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude : 415 A Rated current Protection degree : IP55 L. R. Amperes : 2864 A Cooling method : IC411 - TEFC : 6.9x(Code H) LRC Mounting : F-1 No load current : 160 A Rotation¹ : Both (CW and CCW) Rated speed : 1190 rpm Noise level² : 71.0 dB(A) Starting method Slip : 0.83 % : Direct On Line Rated torque : 1520 ft.lb Approx. weight³ : 3582 lb Locked rotor torque : 250 % Breakdown torque : 270 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 278 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 95.8 : 10936 lb Efficiency (%) 95.3 95.4 95.8 Max. traction Power Factor 0.82 : 14518 lb 0.42 0.66 0.77 Max. compression Non drive end Drive end 6319 C3 Bearing type 6322 C3 Sealing WSeal WSeal Lubrication interval 11000 h 13000 h Lubricant amount 60 g 45 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



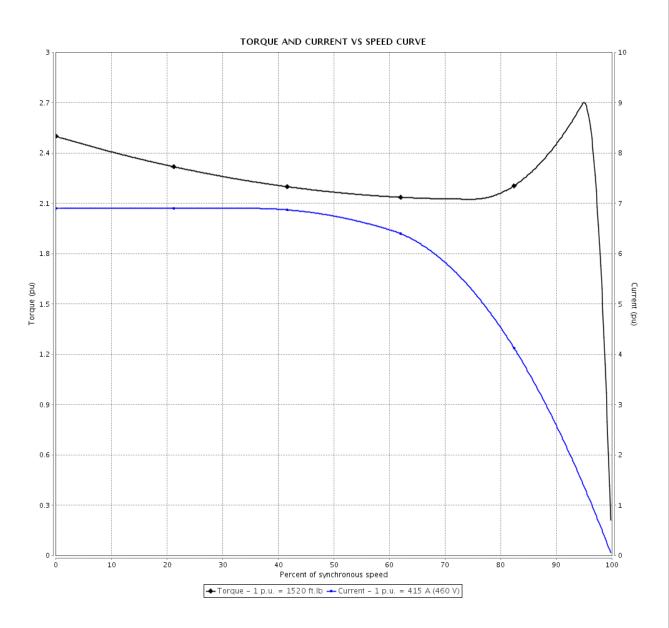
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11408296

Catalog #: 35012ET3G449T-W22



Performance	: 460 V 60 Hz 6P			
Rated current	: 415 A	Moment of inertia (J)	: 278 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 1520 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.15	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1190 rpm	Design	: A	
•	<u> </u>			

Locked rotor time : 41s (cold) 23s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



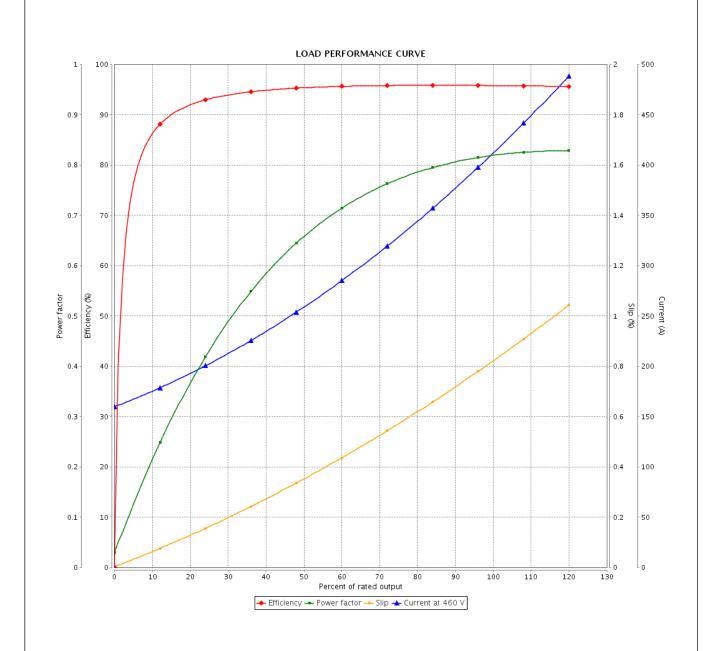
Customer :

Product line : W22 NEMA Premium Efficiency Product

Three-Phase

Product code: 11408296

Catalog #: 35012ET3G449T-W22



Performance	: 4	: 460 V 60 Hz 6P						
Rated current	: 4	: 415 A Moment		f inertia (J)	: 278 sq.ft.lb			
LRC		.9	Duty cycle		: Cont.(S1)			
Rated torque		520 ft.lb	0 ft.lb Insulation class		: F			
Locked rotor torque	e : 2	50 %	Service factor		: 1.15			
Breakdown torque	: 2	70 %	Temperature rise		: 80 K			
Rated speed	: 1	: 1190 rpm		Design				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



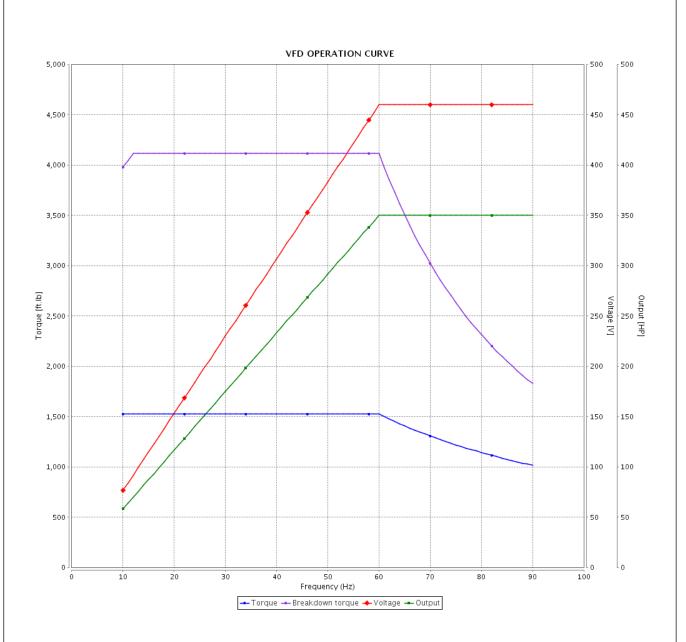
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11408296

Catalog #: 35012ET3G449T-W22



Performance : 4		: 460 V 60 Hz 6P						
Rated current : 4		15 A	Moment of	Moment of inertia (J)				
LRC : 6.		9	Duty cycle	Duty cycle				
Rated torque : 1		520 ft.lb	Insulation class		: F			
Locked rotor torqu	ie : 2	50 %	Service factor		: 1.15			
Breakdown torque	e : 2º	70 %	Temperature rise		: 80 K			
Rated speed	: 1	: 1190 rpm			: A			
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