

MODELS: GB-425021-R0O-D, GB-425021-R1O-D

STATE Released 07/19/2023 DIMENSIONS ARE IN INCHES INCHES PROJECT: E324 PUMP WAS: EX-E324-501

DIMENSIONS ARE IN INCHES VIKING PUMP, INC. AND DETAIL. IS PROPREITY OF VIKING PUMP, INC. AND DETAIL. IS PROPREI

2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

VG. NO. SHEET 1 OF 1 REV. A.1 07/19/2023

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11355339 Three-Phase Catalog #: 10012ET3E444T-W22 Frame : 444/5T Locked rotor time : 36s (cold) 20s (hot) Output : 100 HP (75 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 : 268-242/121 A Protection degree : IP55 L. R. Amperes : 1659-1500/750 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 86.2-100/50.0 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 : 437 ft.lb Approx. weight³ : 1685 lb Locked rotor torque : 220 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 87.3 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 94.5 95.0 95.0 Efficiency (%) Max. traction : 2711 lb Power Factor : 4395 lb 0.68 0.78 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	22/04/2019			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



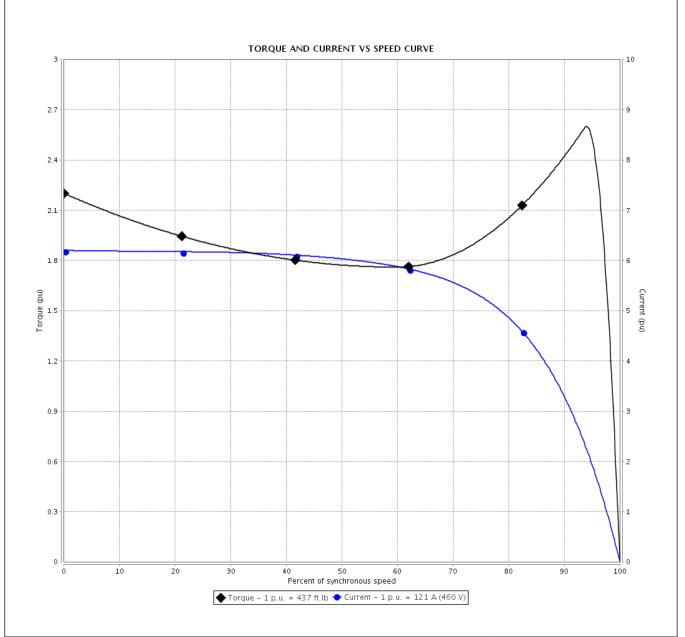
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355339

Catalog #: 10012ET3E444T-W22



Performance	: 208-230/460 V 60 Hz 6P			
Rated current	: 268-242/121 A	Moment of inertia (J)	: 87.3 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 437 ft.lb	Insulation class	:F	
Locked rotor torque	: 220 %	Service factor	: 1.25	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (hot)			

Locked rotor time : 36s (cold) 20s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/04/2019			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



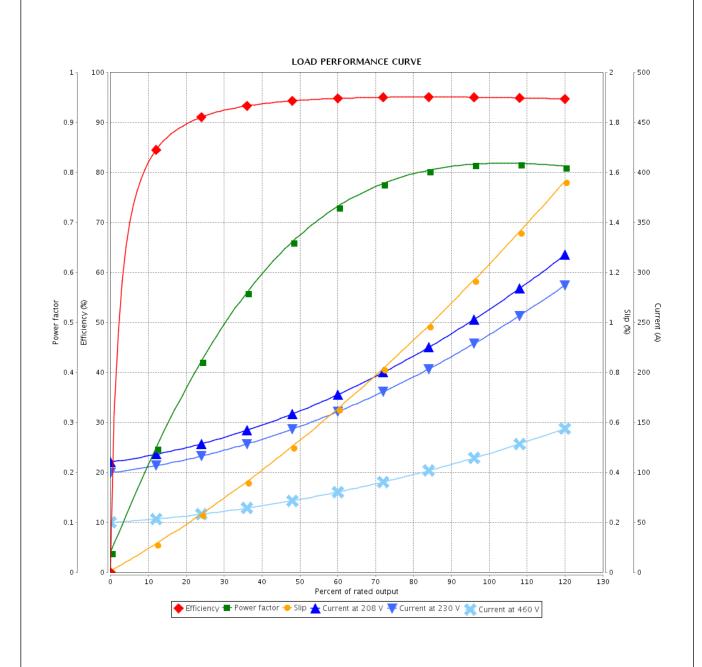
Customer

Product line : W22 NEMA Premium Efficiency P

Three-Phase

Product code: 11355339

Catalog #: 10012ET3E444T-W22



Performance	: 20	08-230/460 V 60 Hz	 6P			
Rated current	: 20	: 268-242/121 A Moment of ir		f inertia (J)	: 87.3 sq.ft.lb	
LRC		2	Duty cycle		: Cont.(S1)	
Rated torque	: 43	37 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2:	: 220 % Service fac : 260 % Temperatu		ctor	: 1.25	
Breakdown torqu	e : 20			ıre rise	: 80 K	
Rated speed	: 1	185 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
		1				
Performed by						
Checked by					Page	Revision
Date	22/04/2019	1			3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



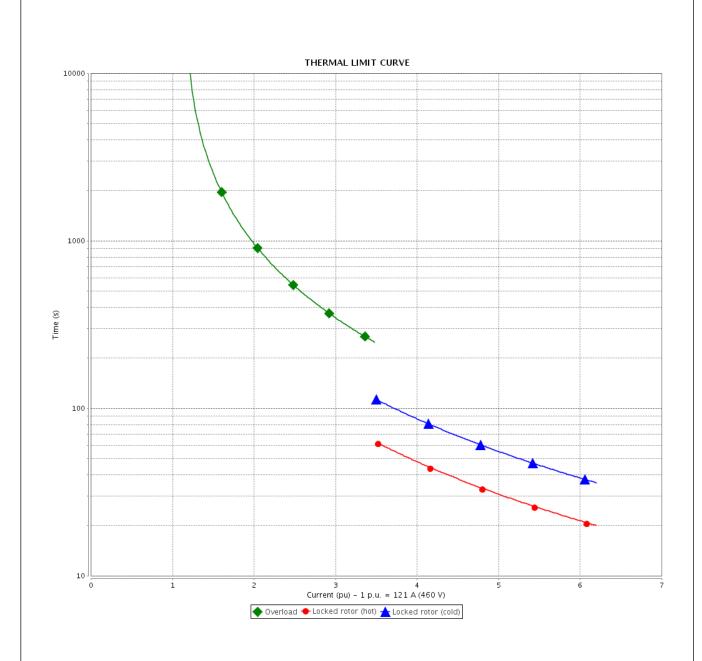
Customer		:				
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Product line		: W22 NEMA Premium Efficie Three-Phase	ency	Product code :	11355339	
				Catalog # :	10012ET3E4	44T-W22
Dowform		200 220/402 \ 20 \ 1 \ 25				
Performance		208-230/460 V 60 Hz 6P 268-242/121 A	Momenta	f inartia (I)	. 07 2 ca # lb	
Rated current LRC		268-242/121 A 6.2	Duty cycle	f inertia (J)	: 87.3 sq.ft.lb : Cont.(S1)	
Rated torque	:	437 ft.lb	Insulation	class	: F	
Locked rotor tord		220 %	Service fa		: 1.25	
Breakdown torqu Rated speed		260 % 1185 rpm	Temperatu Design	are rise	: 80 K : B	
Heating constant		•				
Cooling constant						
Rev.	•	Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	22/04/2019				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	22/04/2019			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



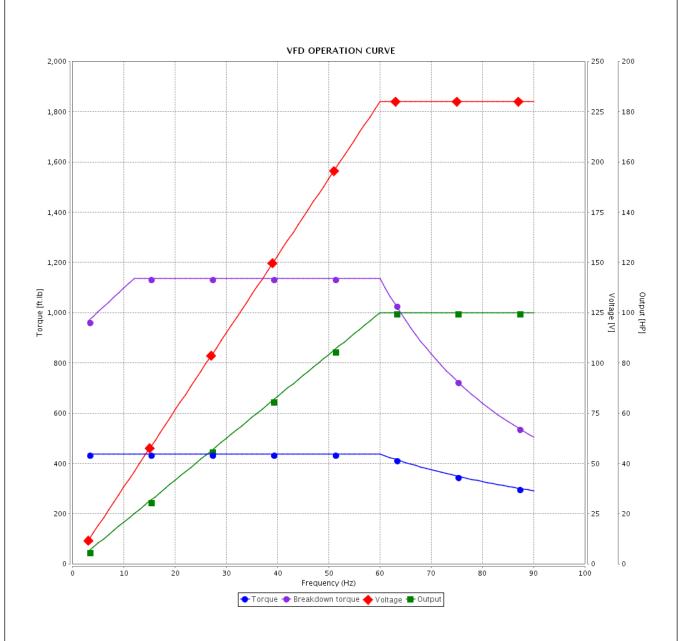
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355339

Catalog #: 10012ET3E444T-W22



Performance	: 208-230/460 V 60 Hz 6P				
Rated current	: 268-242/121 A	Moment of inertia (J) Duty cycle		: 87.3 sq.ft.lb	
LRC	: 6.2			: Cont.(S1)	
Rated torque	: 437 ft.lb Insulation cla		on class : F		
Locked rotor torque	: 220 %	% Service factor		: 1.25	
Breakdown torque	: 260 % Temper		re rise	: 80 K	
Rated speed	: 1185 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/6

22/04/2019

Date

