

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: 11626903 Three-Phase Catalog #: 15012ET3E447T-W22 Frame : 445/7T Locked rotor time : 36s (cold) 20s (hot) Output : 150 HP (110 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 : 389-352/176 A Protection degree : IP55 L. R. Amperes : 2413-2182/1091 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 129-150/75.0 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 : 90.6 kgfm Approx. weight³ : 1043 kg Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 5.63 kgm² Design : B 50% 75% 100% Output Foundation loads 95.0 95.4 : 2172 kgf Efficiency (%) 95.8 Max. traction Power Factor 0.78 : 3215 kgf 0.67 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



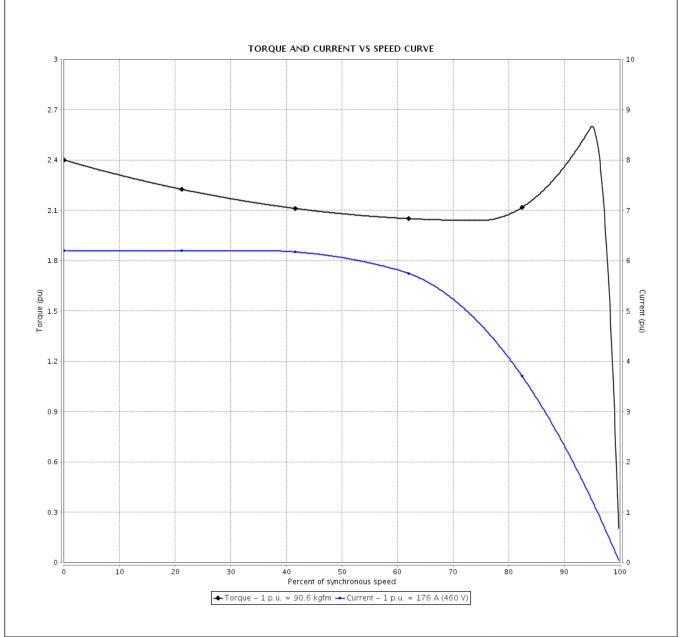
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11626903

Catalog #: 15012ET3E447T-W22



Performance	: 208-230/460 V 60 Hz 6P			
Rated current	: 389-352/176 A	Moment of inertia (J)	: 5.63 kgm²	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 90.6 kgfm	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.15	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (hot)	1		

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

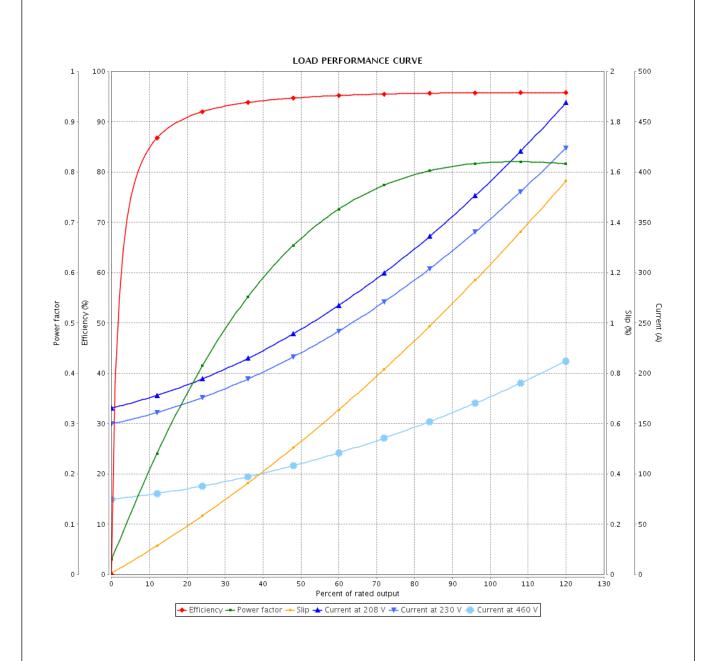


Customer

Product line : W22 NEMA Premium Efficiency Product code : 11626903

Three-Phase

Catalog #: 15012ET3E447T-W22



Performance	: 2	08-230/460 V 60 Hz 6	SP .			
Rated current	: 3	: 389-352/176 A Moment of i : 6.2 Duty cycle : 90.6 kgfm Insulation c		f inertia (J)	: 5.63 kgm²	
LRC	: 6			}	: Cont.(S1)	
Rated torque	: 9			class	:F	
Locked rotor torque	e : 2	40 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	60 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 1	185 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



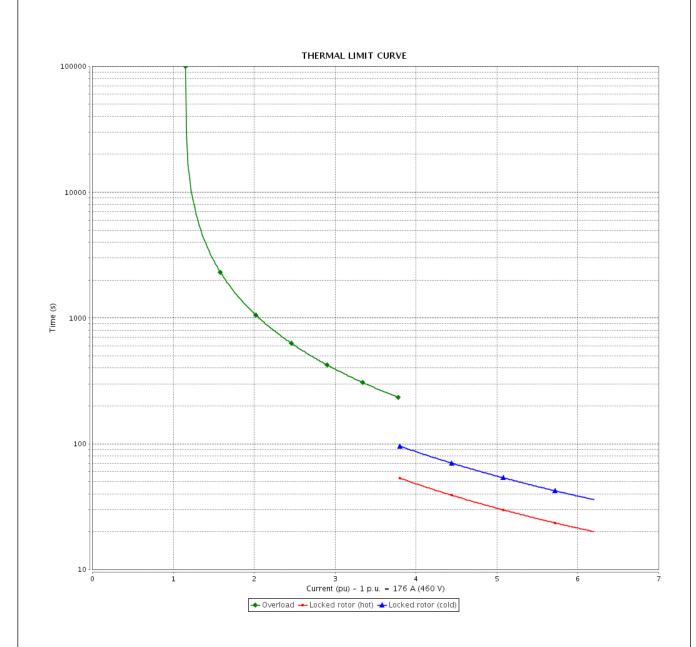
Customer	:					
Product line		W22 NEMA Premium Effici hree-Phase	ency	Product code :	11626903	
		mee i nade		Catalog # :	15012ET3E4	47T-W22
Performance	: 20	08-230/460 V 60 Hz 6P				
Rated current		89-352/176 A	Moment o	f inertia (J)	: 5.63 kgm²	
LRC Rated torque	: 6. : 90	.2 0.6 kgfm	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 24	40 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		60 % 185 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant			-			
Cooling constant						
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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



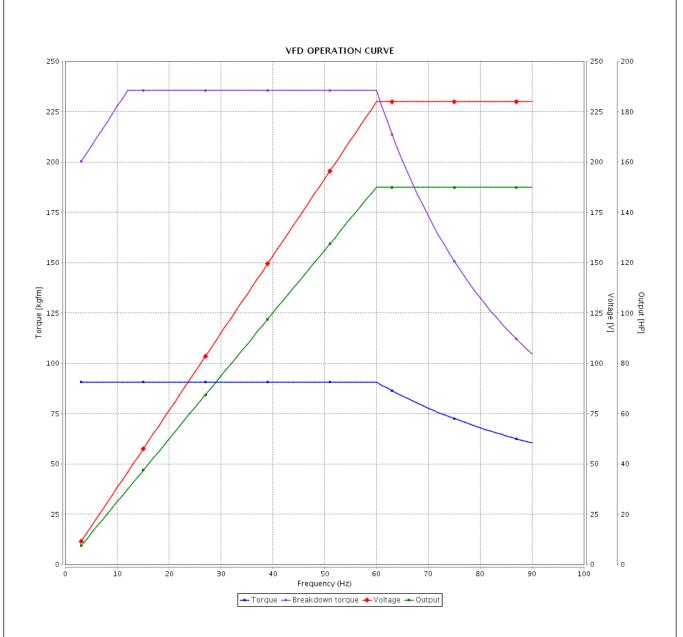
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11626903

Catalog #: 15012ET3E447T-W22



Performance	: 208-230/460 V 60 Hz 6P	: 208-230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 389-352/176 A : 6.2 : 90.6 kgfm : 240 % : 260 % : 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.63 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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23/05/2018

Date

