

STANDARD MODELS: GB-41007-G0O-M, GB-41007-G1O-M

STATE	Released	06/30/2022	DIMENSIONS ARE IN	1		II		///	I_{l}	
DRAWN	bmanternach	6/30/2022	PROJECT:	7	5		\mathcal{H}'			
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VIKING PUMP, INC. A Unit of IDEX Corporatio Cedar Falls, IA 50613 U.S.A.

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GPV-1007-007-U

SHEET 1 OF 1 REV. A.0

06/30/2022

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 Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.39 % : Direct On Line Rated torque : 148 ft.lb Approx. weight³ : 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



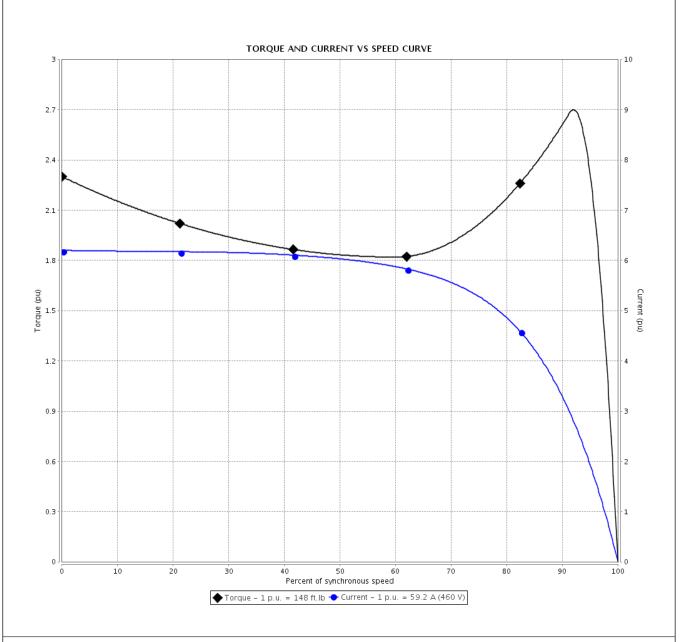
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 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)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

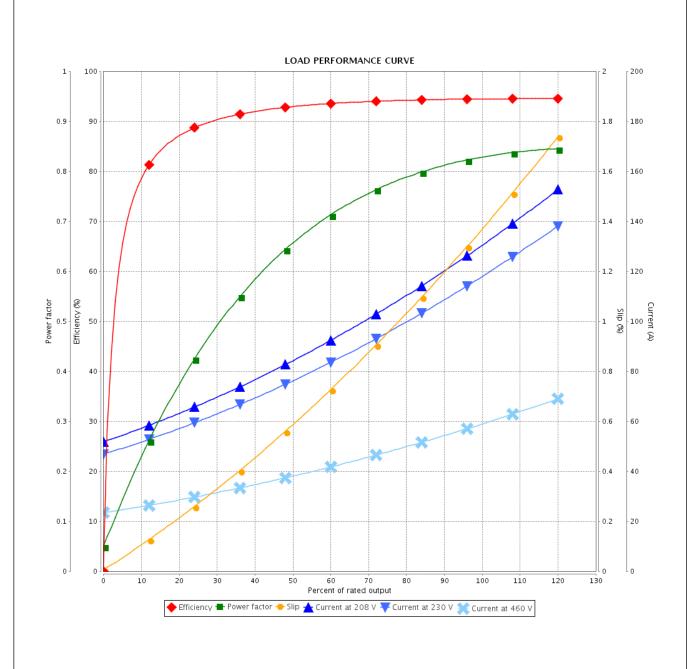


Customer

Product line : W22 NEMA Premium Efficiency Product code : 11438075

Three-Phase

Catalog #: 05018ET3E326TC-W22



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Performance	: 2	: 208-230/460 V 60 Hz 4P						
Rated current	: 1	I31-118/59.2 A	Moment o	Moment of inertia (J)				
LRC	: 6	3.2	Duty cycle	Duty cycle				
Rated torque	: 1	148 ft.lb	Insulation	Insulation class				
Locked rotor torque	e :2	229 %	Service fa	Service factor		: 1.25		
Breakdown torque	: 2	: 270 %		Temperature rise Design				
Rated speed	: 1775 rpm		Design					
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Checked by					Page	Revision		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



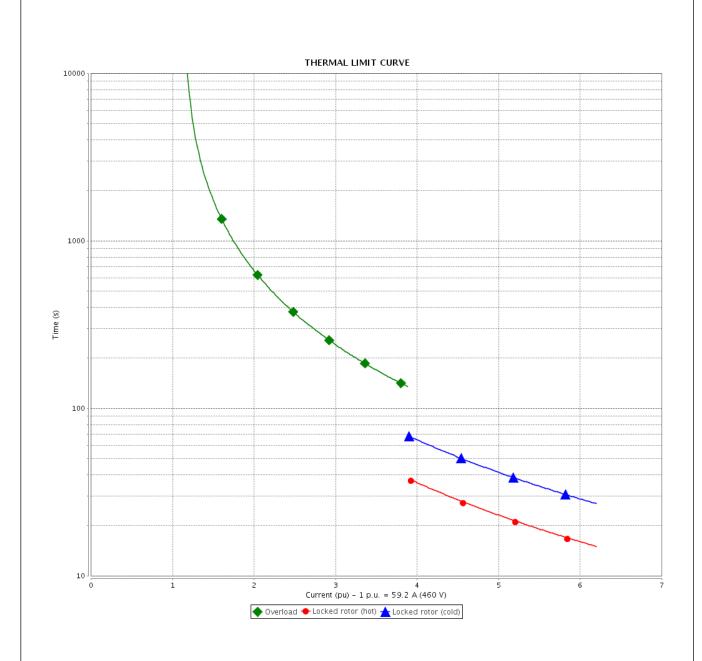
Customer	:				·	
Product line		: W22 NEMA Premium Efficie		Product code :	11438075	
		Three-Phase		Catalog # :	05018ET3E32	P6TC-W22
					03010213232	LO 1 O-VVZZ
Performance	: 20	08-230/460 V 60 Hz 4P				
Rated current		31-118/59.2 A	Moment of	f inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 6. : 14	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		· -	
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 :

Date

27/02/2020

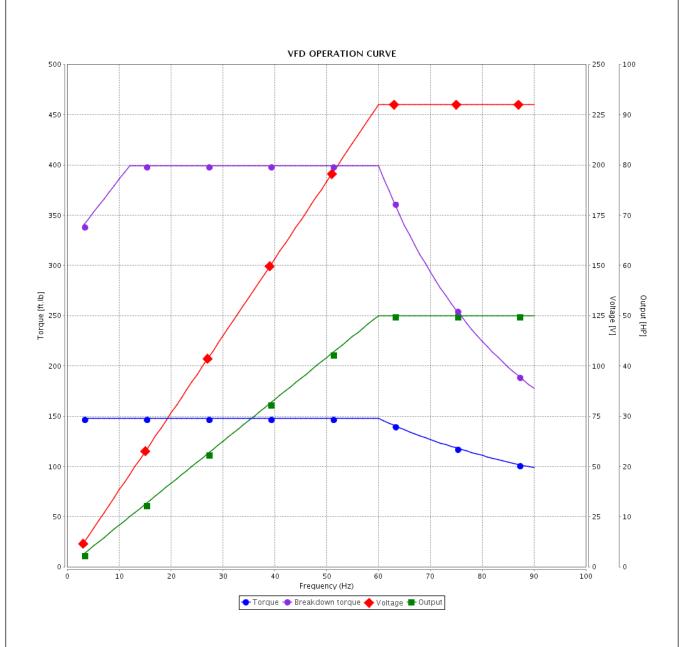
Product line : W22 NEMA Premium Efficiency

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

