

MODELS: GP-41420-G0O-D, GP-41420-G1O-D, GP-41420-N0O-D, GP-41420-N1O-D, GP-41420-K0O-D, GP-41420-K1O-D, GB-41420-K0O-D, GB-41420-R1O-D, GB-41420-N0O-D, GB-41420-R1O-D

NOTES:

- 1. COUPLING GUARD NOT SHOWN IN TOP VIEW.
- 2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

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STATE	Released	08/03/2020	DIMENSIONS ARE IN INCHES	VIKING		THIS DRAWING IS THE PROPERTY OF VIKING PUMP, INC. AND IS PROPRIETARY IN GENERAL AND DETAIL. IT SHALL NOT BE		DWG. NO.	SHEET 1 OF 1	REV. E.O
DRAWN	DLende	11/28/2017	PROJECT:E251	DIIMD	Cedar Falls, IA 50613 U.S.A.	COPIED OR ITS CONTENTS REVEALED TO OUTSIDE PARTIES WITHOUT THE WRITTEN	3D	GPV-1420-0	059-U	00 100 10000
CHECKED	GDJ	07/30/2020	WAS:	PUINIP		CONSENT OF VIKING PUMP, INC.		GPV-1420-0	JJ7-U	08/03/2020

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11416668 Three-Phase Catalog #: 00518ET3E184T-W22 Frame : 182/4T Locked rotor time : 27s (cold) 15s (hot) Output : 5 HP (3.7 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 : 14.3-12.9/6.45 A Protection degree : IP55 L. R. Amperes : 107-96.7/48.4 A Cooling method : IC411 - TEFC LRC : 7.5x(Code J) Mounting : F-1 No load current : 5.52-6.40/3.20 A Rotation¹ : Both (CW and CCW) Rated speed : 1755 rpm Noise level² : 56.0 dB(A) Starting method Slip : 2.50 % : Direct On Line Rated torque : 2.04 kgfm Approx. weight³ : 45.3 kg Locked rotor torque : 229 % Breakdown torque : 320 % Insulation class : F Service factor : 1.25 : 0.0169 kgm² Moment of inertia (J) Design : B 25% 50% 75% 100% Output Foundation loads 89.5 : 134 kgf Efficiency (%) 88.2 88.5 89.5 Max. traction Power Factor 0.74 0.80 : 180 kgf 0.37 0.62 Max. compression Drive end Non drive end 6206 ZZ Bearing type 6207 ZZ Sealing V'Ring V'Ring Lubrication interval Lubricant amount 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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Performed by					
Checked by				Page	Revision
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



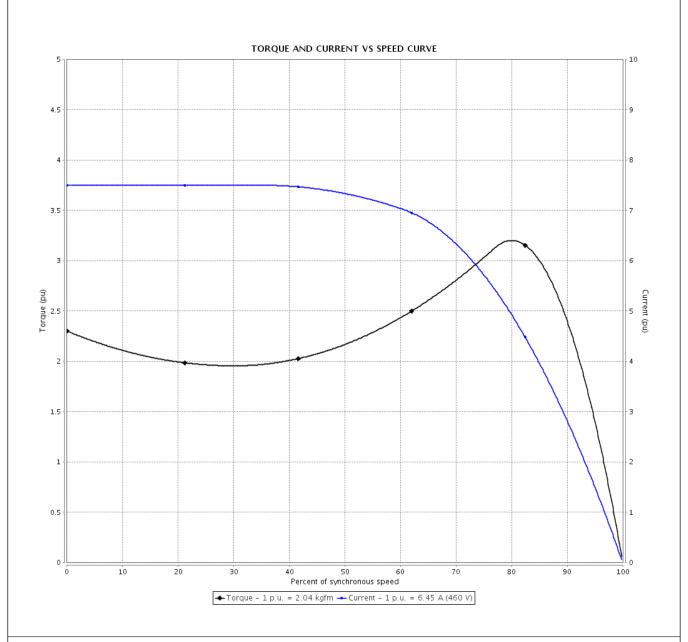
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance : 208-230/460 V 60 Hz 4P Rated current : 14.3-12.9/6.45 A Moment of inertia (J) : 0.0169 kgm² **LRC** : 7.5 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.04 kgfm : 229 % Locked rotor torque Service factor : 1.25 : 320 % Breakdown torque Temperature rise : 80 K Rated speed : 1755 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



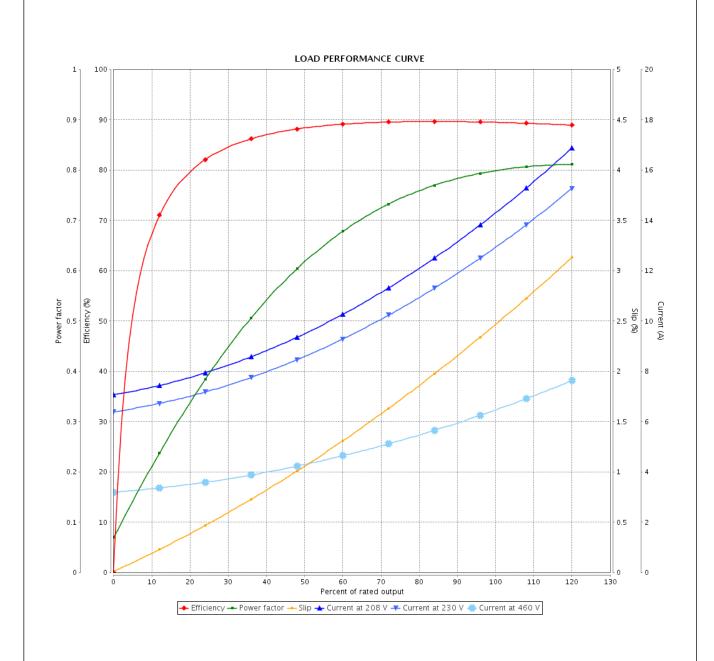
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance		: 208-230/460 V 60 Hz 4	.P			
Rated current		: 14.3-12.9/6.45 A	45 A Moment of inertia (J)		: 0.0169 kgm²	
LRC		: 7.5	Duty cycle		: Cont.(S1)	
Rated torque		: 2.04 kgfm	Insulation class		: F ` ´	
Locked rotor torque		: 229 %	Service factor		: 1.25	
Breakdown torque		: 320 %	Temperature rise		: 80 K	
Rated speed		: 1755 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



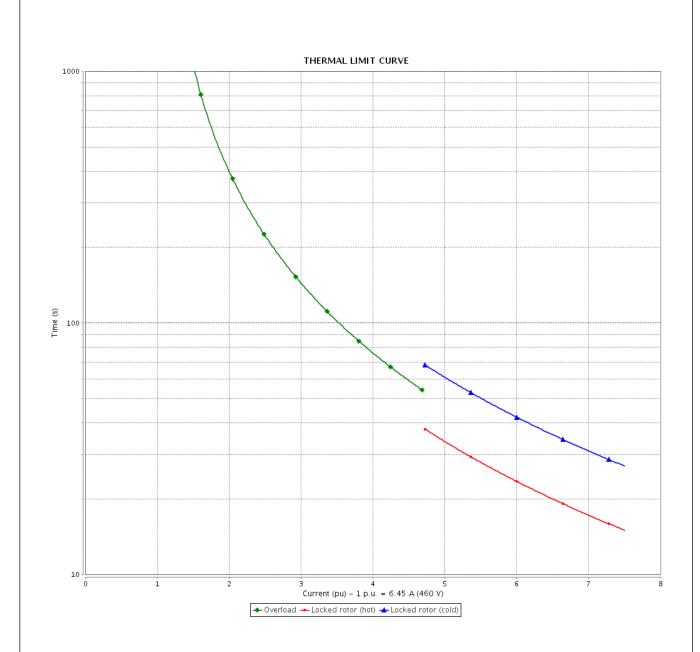
Customer	:				
Product line	: W22 NEMA Premium Efficient Three-Phase	ency I	Product code :	11416668	
		(Catalog # :	00518ET3E1	84T-W22
	: 208-230/460 V 60 Hz 4P : 14.3-12.9/6.45 A	Moment	finertia (I)	: 0.0169 kgm²	
LRC	: 7.5	Duty cycle	f inertia (J)	: Cont.(S1)	
	: 2.04 kgfm : 229 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 320 % : 1755 rpm	Temperatu Design		: 80 K : B	
Heating constant					
Cooling constant	01 0			<u> </u>	
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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



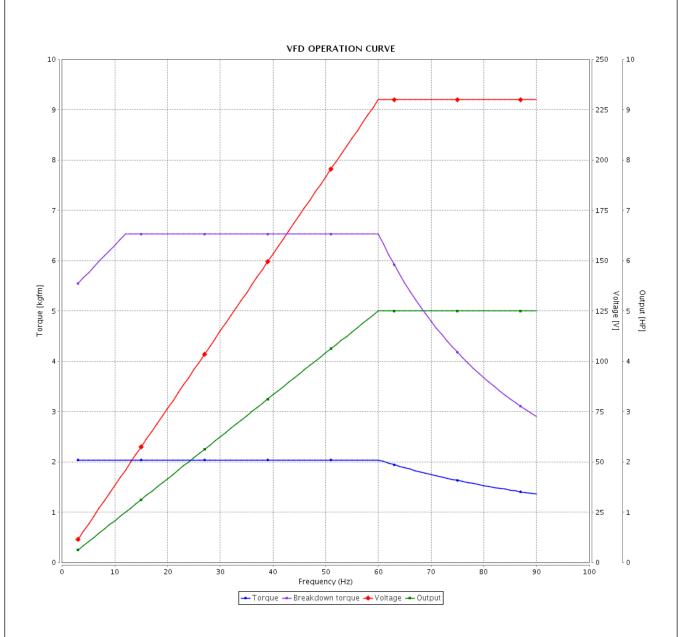
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 208-230/460 V 60 Hz 4P					
Rated current	: 14.3-12.9/6.45 A			: 0.0169 kgm²		
LRC	: 7.5	Duty cycle		: Cont.(S1)		
Rated torque	: 2.04 kgfm	: 2.04 kgfm Insulation class : 229 % Service factor : 320 % Temperature rise : 1755 rpm Design		: F		
Locked rotor torque	: 229 %			: 1.25 : 80 K		
Breakdown torque	: 320 %					
Rated speed	: 1755 rpm			: B		
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Checked by				Page	Revision	

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31/05/2018

Date

