

NOTES:

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

STATE Released 07/19/2023 DIMENSIONS ARE IN INCHES
DRAWN bmanternach 2/22/2023 PROJECT: E324
CHECKED BAM 07/19/2023 WAS: EX-E324-507

DIMENSIONS ARE IN INCHES VIKING PUMP, INC. AU Unit of IDEX Corporation Cedar Falls, IA 50613 U.S.A.

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3D GPV-25102-6

SHEET 1 OF 1 REV. A.1 07/19/2023

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line			2 NEMA Pr e-Phase	remium Efficie	Product code : Catalog #:	12182294 50012ET3G586/7-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torqu Insulation class Service factor Moment of inertia	ie	: 6 : 60 F : 460 : 603 : 361 : 6.05 : 250 : 119 : 0.83 : 218 : 220 : 210 : F	HP (370 k Hz V A 8 A ((Code G) A 0 rpm 3 % 0 ft.lb %	:W)	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 45s (cold) 25s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 77.0 dB(A) : Direct On Line : 4660 lb
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	95.7	95.8	96.2	96.2	Max. traction	: 9125 lb
Power Factor	0.41	0.66	0.76	0.80	Max. compression	: 13784 lb
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		: : : : : : : : : : : : : : : : : : : :	63 Taconit 11	<u>e end</u> 22 C3 e Labyrinth 000 h 60 g Mo	Non drive end 6319 C3 Taconite Labyr 13000 h 45 g bil Polyrex EM	-
Notes						

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
Date	02/02/2018	1		1/5	

DATA SHEET

Date

02/02/2018

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Three Phase Induction Motor - Squirrel Cage							
Customer	:						
		Space heater informat	tion				
Voltage: 200 - 24	10 V						
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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



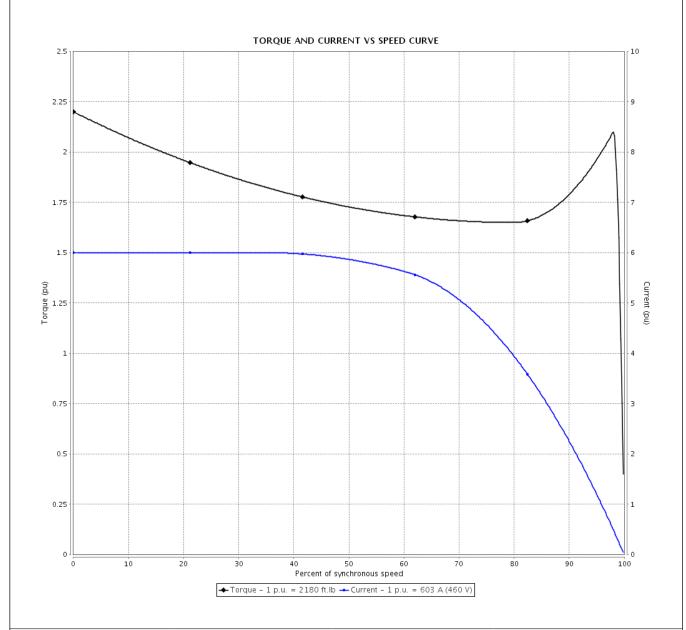
Customer :

Product line : W22 NEMA Premium Efficiency Product code :

Three-Phase

roduct code: 12182294

Catalog #: 50012ET3G586/7-W22



Performance : 460 V 60 Hz 6P Rated current : 603 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 2180 ft.lb Insulation class : F Rated torque : 220 % Locked rotor torque Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1190 rpm

Locked rotor time : 45s (cold) 25s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



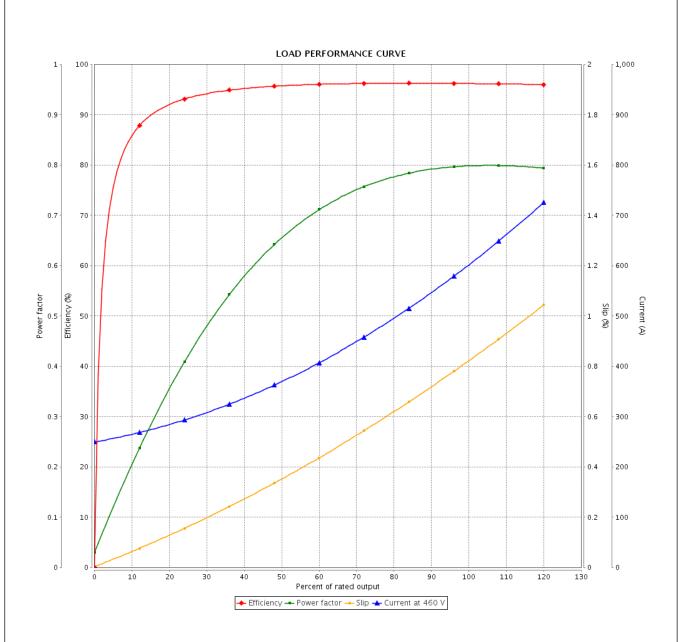
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12182294

Catalog #: 50012ET3G586/7-W22



Performance : 460 V 60 Hz 6P : 603 A Moment of inertia (J) : 368 sq.ft.lb Rated current **LRC** : 6.0 Duty cycle : Cont.(S1) : 2180 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1190 rpm

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



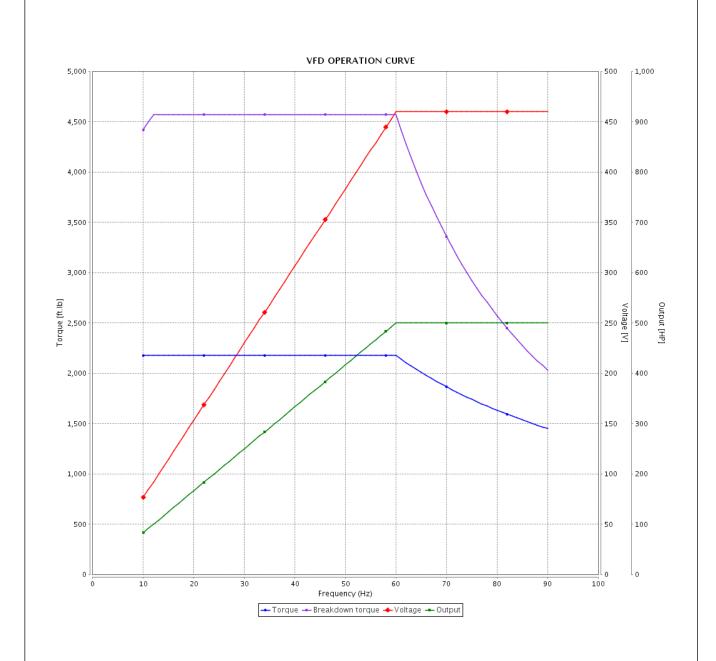
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

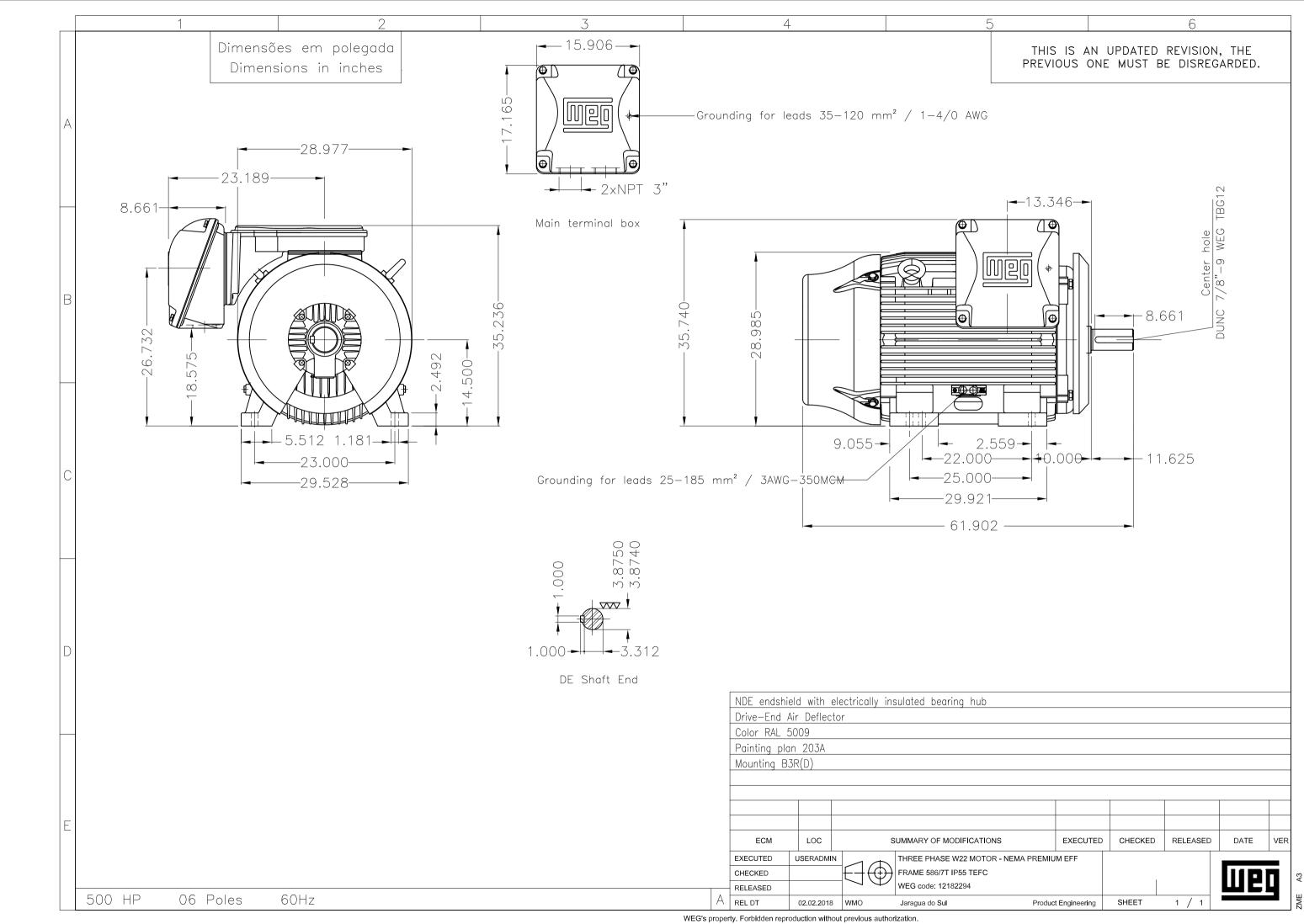
Product code: 12182294

Catalog #: 50012ET3G586/7-W22



Performance : 460 V 60 Hz 6P Rated current : 603 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 2180 ft.lb Rated torque Insulation class : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1190 rpm

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



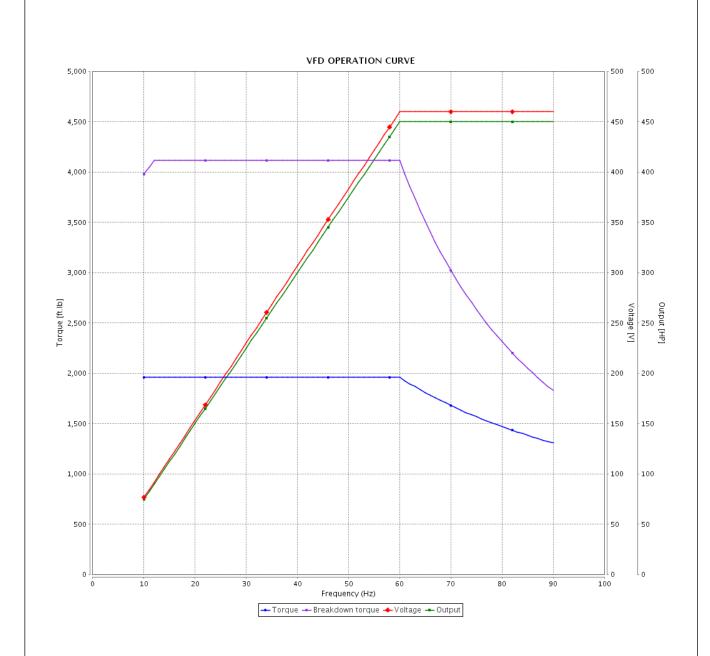
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12052653

Catalog #: 45012ET3G586/7-W22



Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Moment of Duty cycle Insulation Service fa	class ctor	: 368 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
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