

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 : W22 NEMA Premium Efficiency Product code: 12011329 Three-Phase Catalog #: 60012ET3G588/9-W22 Frame : 588/9T Locked rotor time : 55s (cold) 31s (hot) Output : 600 HP (440 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 60 Hz : -20°C to +40°C Frequency Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude : 727 A Rated current Protection degree : IP55 L. R. Amperes : 4580 A Cooling method : IC411 - TEFC : 6.3x(Code G) LRC Mounting : F-1 No load current : 330 A Rotation¹ : Both (CW and CCW) Rated speed : 1190 rpm Noise level² : 77.0 dB(A) Starting method Slip : 0.83 % : Direct On Line Rated torque : 2610 ft.lb Approx. weight³ : 5828 lb Locked rotor torque : 220 % Breakdown torque : 229 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 449 sq.ft.lb 25% 75% 100% 50% Foundation loads Output Efficiency (%) 95.2 95.4 96.1 96.2 Max. traction : 12026 lb Power Factor 0.38 0.63 0.74 0.79 Max. compression : 17855 lb Drive end Non drive end Bearing type 6322 C3 6319 C3 Taconite Labyrinth Taconite Labyrinth Sealing 11000 h Lubrication interval 13000 h Lubricant amount 60 g 45 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



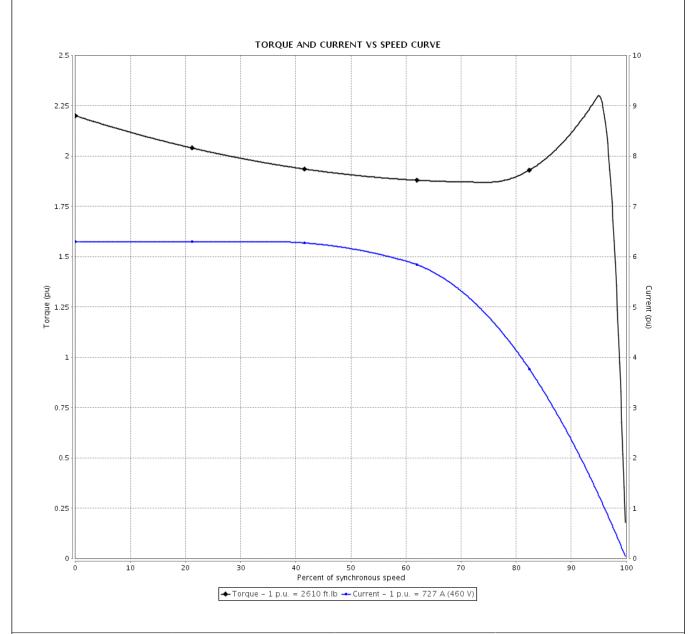
Customer :

Product line : W22 NEMA Premium Efficiency Product

Three-Phase

Product code: 12011329

Catalog #: 60012ET3G588/9-W22



Performance : 460 V 60 Hz 6P Rated current : 727 A Moment of inertia (J) : 449 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 2610 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1190 rpm

Locked rotor time : 55s (cold) 31s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



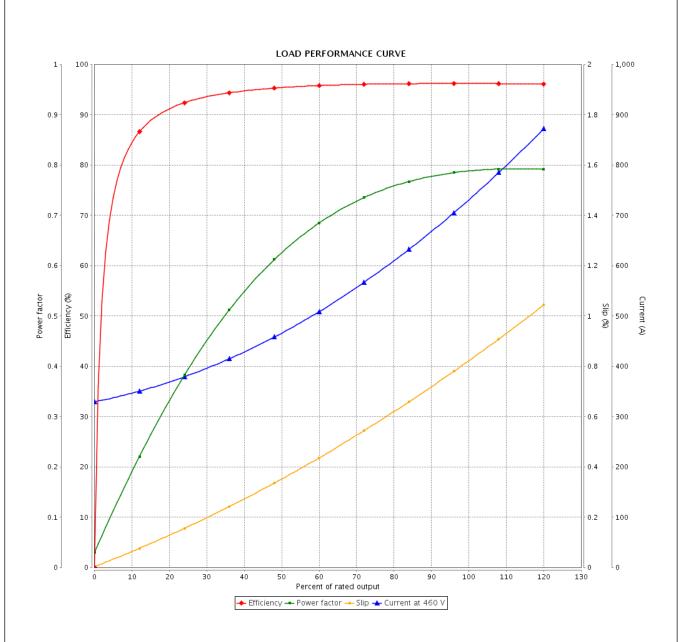
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12011329

Catalog #: 60012ET3G588/9-W22



Performance : 460 V 60 Hz 6P : 727 A Moment of inertia (J) : 449 sq.ft.lb Rated current **LRC** : 6.3 Duty cycle : Cont.(S1) : 2610 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00

Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1190 rpm

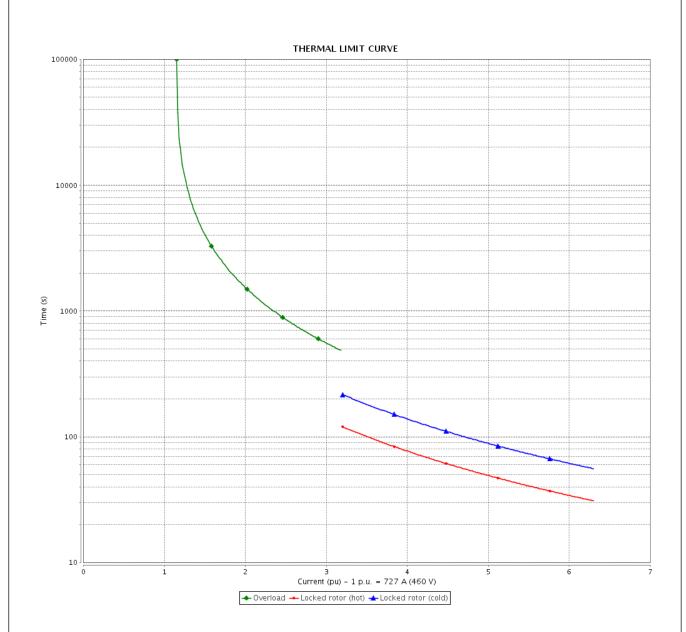
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

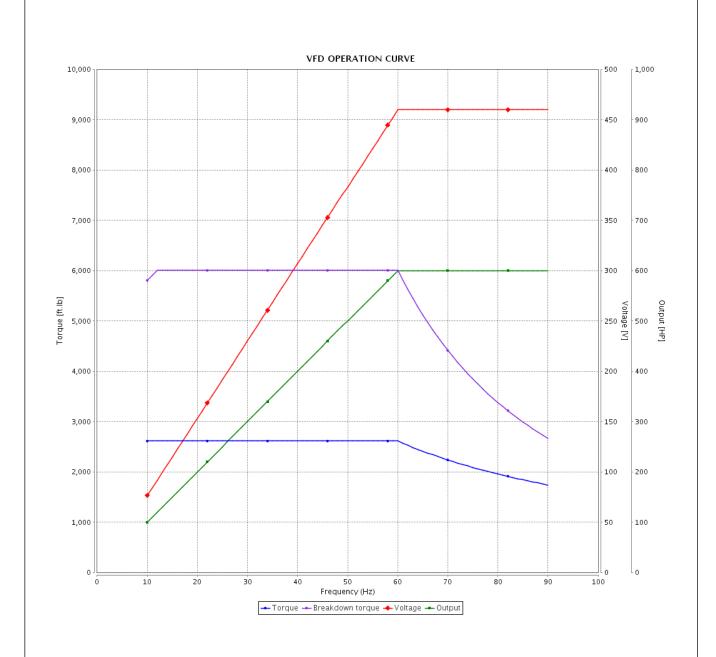
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12011329

Catalog #: 60012ET3G588/9-W22

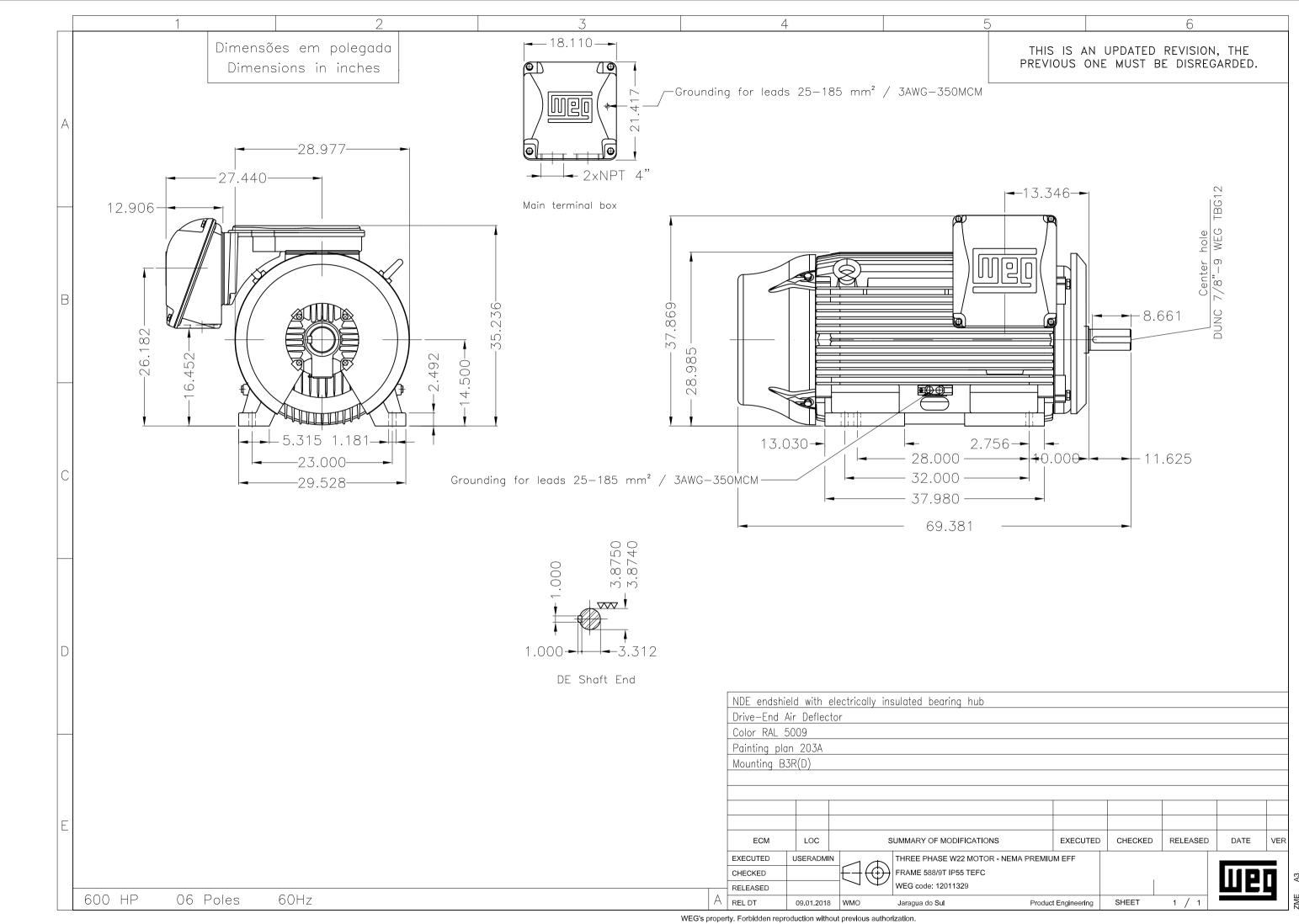


Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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Revision



VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



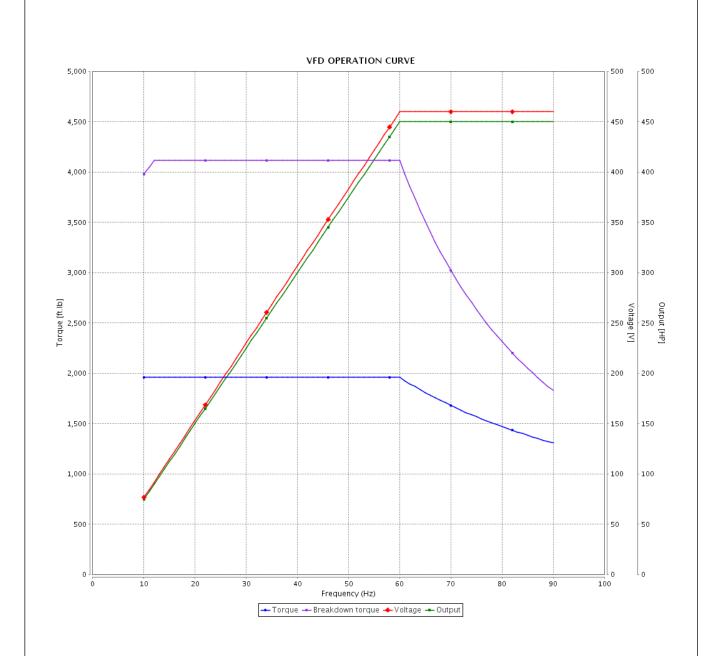
Customer

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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