

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11611524  
Catalog # : HT125504NPBBW22

|                       |                 |                             |                        |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame                 | : 444/5T        | Locked rotor time           | : 48s (cold) 27s (hot) |
| Output                | : 125 HP        | Temperature rise            | : 80 K                 |
| Poles                 | : 4             | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz         | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 575 V         | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 111 A         | Protection degree           | : IP55                 |
| L. R. Amperes         | : 724 A         | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 6.5x(Code G)  | Mounting                    | : F-1                  |
| No load current       | : 36.8 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1785 rpm      | Noise level <sup>2</sup>    | : 73.0 dB(A)           |
| Slip                  | : 0.83 %        | Starting method             | : Direct On Line       |
| Rated torque          | : 368 ft.lb     | Approx. weight <sup>3</sup> | : 1590 lb              |
| Locked rotor torque   | : 200 %         |                             |                        |
| Breakdown torque      | : 229 %         |                             |                        |
| Insulation class      | : F             |                             |                        |
| Service factor        | : 1.15          |                             |                        |
| Moment of inertia (J) | : 57.2 sq.ft.lb |                             |                        |
| Design                | : B             |                             |                        |

|                |       |      |      |      |                  |           |
|----------------|-------|------|------|------|------------------|-----------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 0.000 | 95.0 | 95.4 | 95.4 | Max. traction    | : 1519 lb |
| Power Factor   | 0.00  | 0.74 | 0.82 | 0.85 | Max. compression | : 2990 lb |

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 4.5          | 3.4          | 3.0           | 2.4          | 1.4          | 0.9           | 0.6            |

|                      | Drive end          | Non drive end |
|----------------------|--------------------|---------------|
| Bearing type         | : 6319 C3          | : 6316 C3     |
| Sealing              | : WSeal            | : WSeal       |
| Lubrication interval | : 8000 h           | : 10000 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.

| Rev.         | Changes Summary | Performed                   | Checked | Date |
|--------------|-----------------|-----------------------------|---------|------|
|              |                 |                             |         |      |
| Performed by |                 | Page      Revision<br>1 / 6 |         |      |
| Checked by   |                 |                             |         |      |
| Date         | 03/07/2026      |                             |         |      |

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage

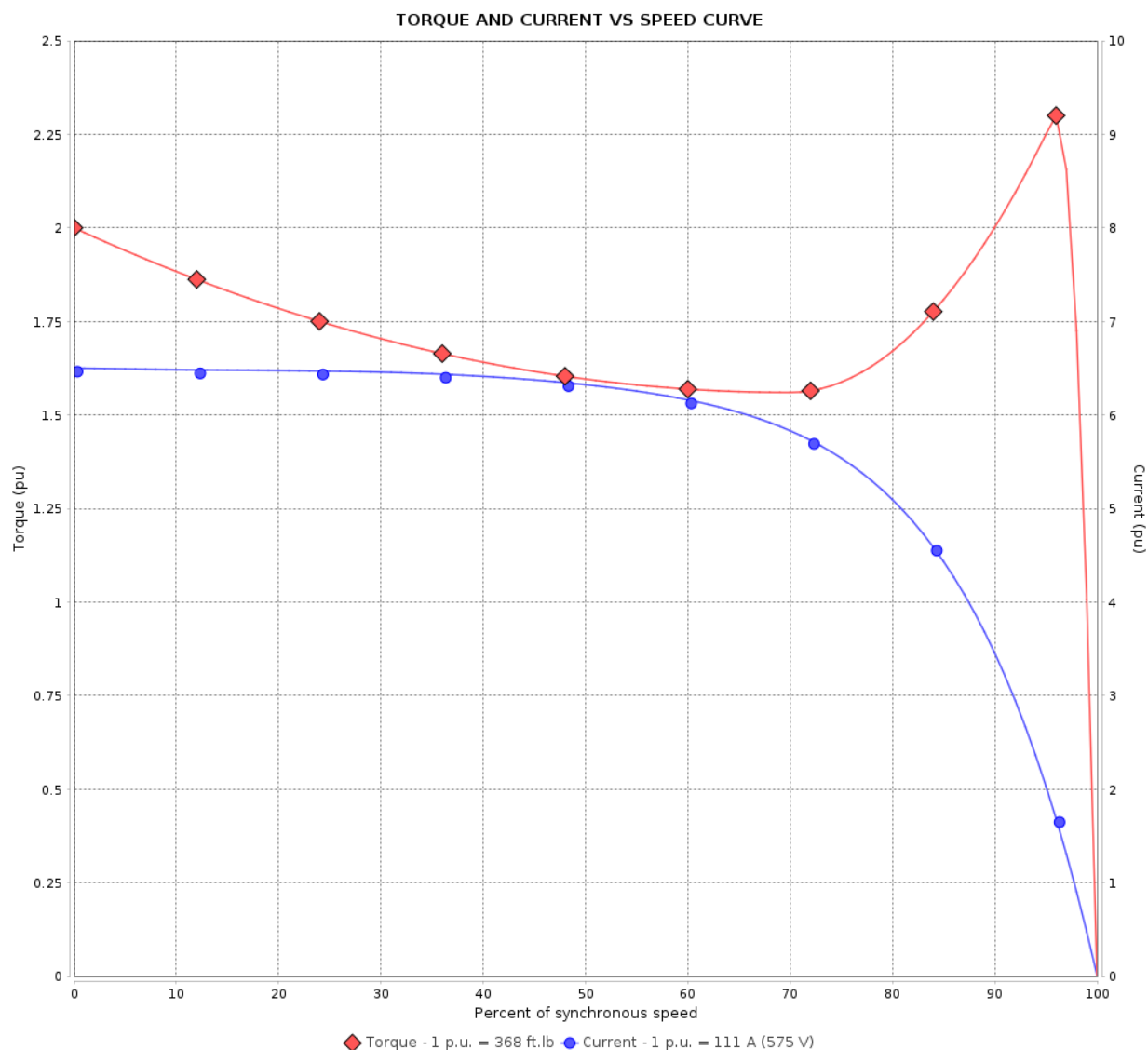


Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11611524

Catalog # : HT125504NPBBW22



Performance : 575 V 60 Hz 4P

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 111 A     | Moment of inertia (J) | : 57.2 sq.ft.lb |
| LRC                 | : 6.5       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 368 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 200 %     | Service factor        | : 1.15          |
| Breakdown torque    | : 229 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 1785 rpm  | Design                | : B             |

Locked rotor time : 48s (cold) 27s (hot)

| Rev.         | Changes Summary | Performed                | Checked | Date |
|--------------|-----------------|--------------------------|---------|------|
|              |                 |                          |         |      |
| Performed by |                 | Page 2 / 6      Revision |         |      |
| Checked by   |                 |                          |         |      |
| Date         | 03/07/2026      |                          |         |      |

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

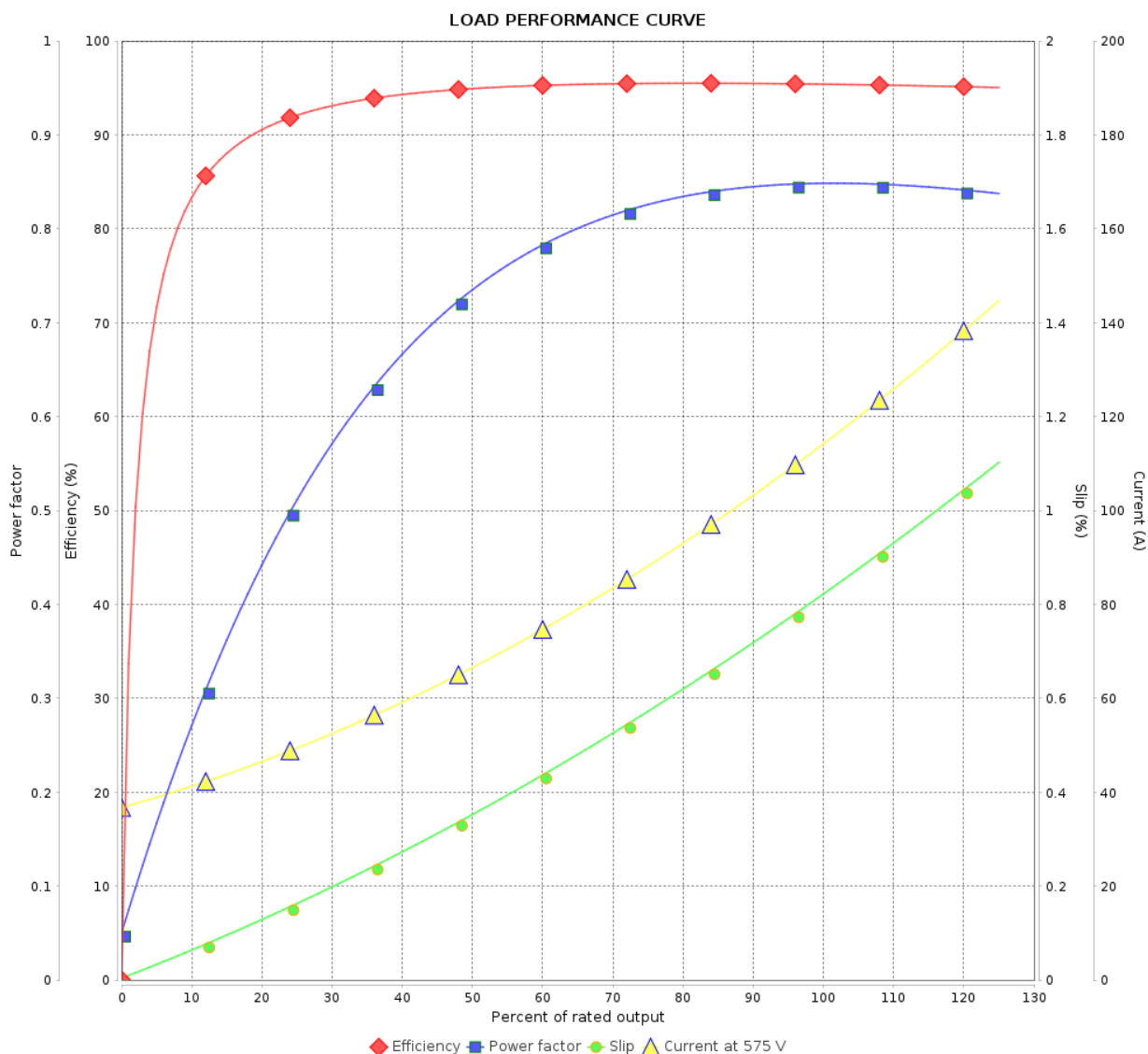


Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11611524

Catalog # : HT125504NPBBW22



Performance : 575 V 60 Hz 4P

Rated current : 111 A  
LRC : 6.5  
Rated torque : 368 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 229 %  
Rated speed : 1785 rpm

Moment of inertia (J) : 57.2 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed             | Checked | Date |
|--------------|-----------------|-----------------------|---------|------|
|              |                 |                       |         |      |
| Performed by |                 | Page<br>3 / 6Revision |         |      |
| Checked by   |                 |                       |         |      |
| Date         | 03/07/2026      |                       |         |      |

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11611524

Catalog # : HT125504NPBBW22

Performance : 575 V 60 Hz 4P

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 111 A     | Moment of inertia (J) | : 57.2 sq.ft.lb |
| LRC                 | : 6.5       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 368 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 200 %     | Service factor        | : 1.15          |
| Breakdown torque    | : 229 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 1785 rpm  | Design                | : B             |

Heating constant

Cooling constant

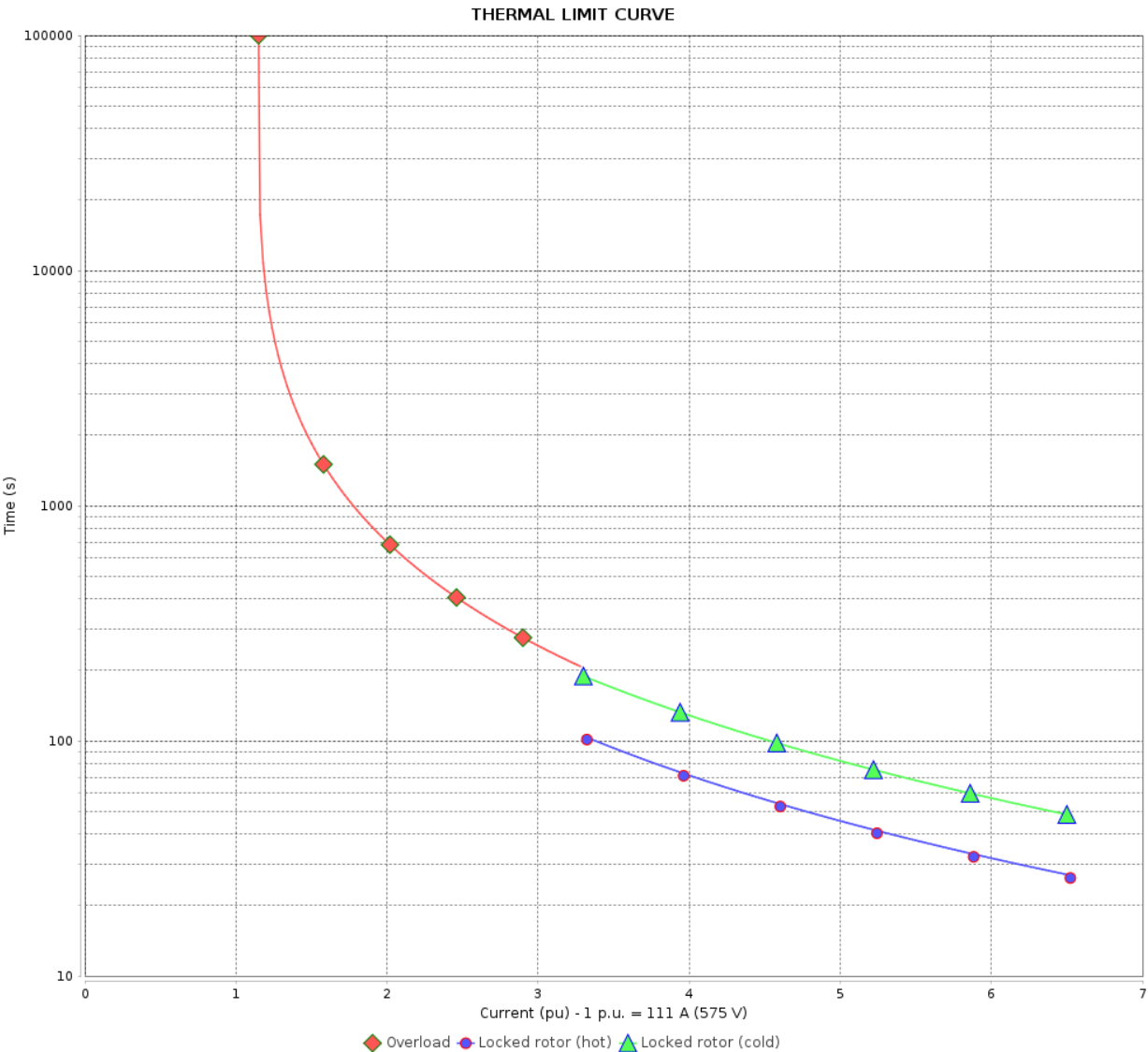
| Rev.         | Changes Summary |  | Performed | Checked | Date     |
|--------------|-----------------|--|-----------|---------|----------|
|              |                 |  |           |         |          |
| Performed by |                 |  |           | Page    | Revision |
| Checked by   |                 |  |           | 4 / 6   |          |
| Date         | 03/07/2026      |  |           |         |          |

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :



| Rev.         | Changes Summary |  | Performed | Checked       | Date     |
|--------------|-----------------|--|-----------|---------------|----------|
|              |                 |  |           |               |          |
| Performed by |                 |  |           |               |          |
| Checked by   |                 |  |           |               |          |
| Date         | 03/07/2026      |  |           |               |          |
|              |                 |  |           | Page<br>5 / 6 | Revision |

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

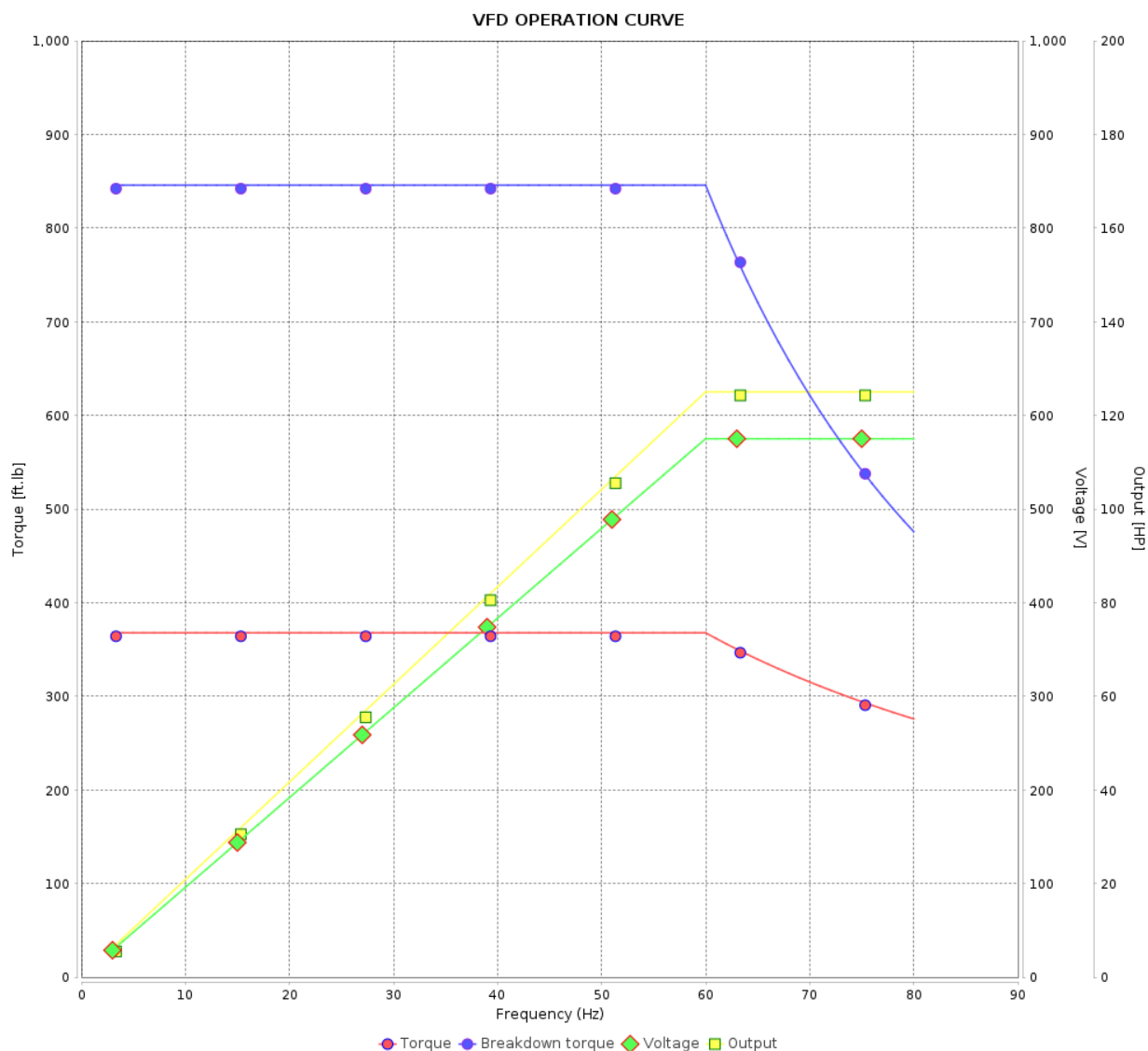


Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11611524

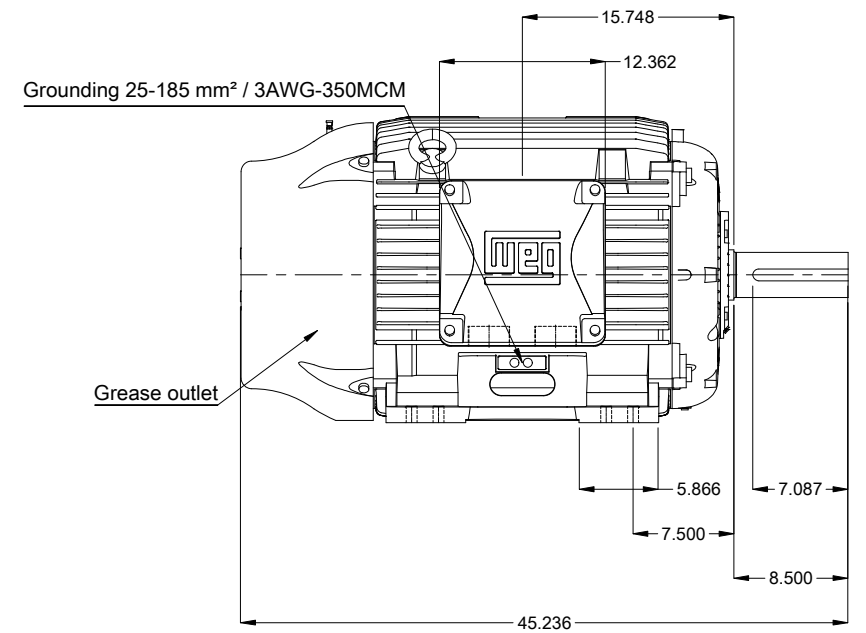
Catalog # : HT125504NPBBW22



Performance : 575 V 60 Hz 4P

|                     |             |                       |                 |
|---------------------|-------------|-----------------------|-----------------|
| Rated current       | : 111 A     | Moment of inertia (J) | : 57.2 sq.ft.lb |
| LRC                 | : 6.5       | Duty cycle            | : Cont.(S1)     |
| Rated torque        | : 368 ft.lb | Insulation class      | : F             |
| Locked rotor torque | : 200 %     | Service factor        | : 1.15          |
| Breakdown torque    | : 229 %     | Temperature rise      | : 80 K          |
| Rated speed         | : 1785 rpm  | Design                | : B             |

| Rev.         | Changes Summary | Performed     | Checked | Date |
|--------------|-----------------|---------------|---------|------|
|              |                 |               |         |      |
| Performed by |                 | Page<br>6 / 6 |         |      |
| Checked by   |                 |               |         |      |
| Date         | 03/07/2026      |               |         |      |
|              |                 | Revision      |         |      |



DE Shaft End

0.875

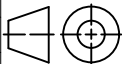
0.875

2.880

3.3750

3.3740

DUNC 3/4\"-10 WEG WPR-7339

|                           |  |            |  |                                                                                                                                                     |  |                                           |  |                                                                                       |  |          |
|---------------------------|--|------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--|---------------------------------------------------------------------------------------|--|----------|
| 125 HP   04 Poles   60 Hz |  |            |  |                                                                                                                                                     |  |                                           |  |                                                                                       |  | A        |
|                           |  |            |  |                                                                                                                                                     |  |                                           |  |                                                                                       |  |          |
|                           |  |            |  |                                                                                                                                                     |  | Scale                      1 : 14         |  |                                                                                       |  |          |
|                           |  |            |  |                                                                                                                                                     |  |                                           |  |                                                                                       |  |          |
|                           |  |            |  | HYBRISUSER                                                                                                                                          |  |                                           |  |                                                                                       |  | 00       |
| ECM                       |  | LOC        |  | SUMMARY OF MODIFICATIONS                                                                                                                            |  | EXECUTED                                  |  | CHECKED                                                                               |  | RELEASED |
| EXECUTED                  |  | HYBRISUSER |  |  THREE PH. MOTOR W22 NEMA PREM. EFF.<br>FRAME 444/5T IP55 TEFC |  | <div>PREVIEW</div> <div>WDD      00</div> |  |  |  |          |
| CHECKED                   |  |            |  |                                                                                                                                                     |  |                                           |  |                                                                                       |  |          |
| RELEASED                  |  |            |  |                                                                                                                                                     |  |                                           |  |                                                                                       |  |          |
| REL. DATE                 |  |            |  |                                                                                                                                                     |  |                                           |  |                                                                                       |  |          |
|                           |  |            |  |                                                                                                                                                     |  | SHEET                                     |  | 1 / 1                                                                                 |  |          |

Dimensions in inches

A3