# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 JM Pump Single-Phase Product code : 14184284

| | | | |
|---|---|---|---|
| Frame | : 143/5JM | Locked rotor time | : 12s (cold) 7s (hot) |
| Output | : 3 HP (2.2 kW) | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 115/208-230 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 25.0/13.6-12.5 A | Protection degree | : IP55 |
| L. R. Amperes | : 180/97.9-90.0 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.2x(Code H) | Mounting | : F-1 |
| No load current | : 5.80/2.50-2.90 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 3515 rpm | Noise level[2] | : 69.0 dB(A) |
| Slip | : 2.36 % | Starting method | : Direct On Line |
| Rated torque | : 0.619 kgfm | Approx. weight[3] | : 33.4 kg |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 240 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0028 kgm² | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 72.5 | 76.0 | 78.5 |
| Power Factor | 0.96 | 0.97 | 0.97 |

Foundation loads

| | |
|---|---|
| Max. traction | : 25 kgf |
| Max. compression | : 59 kgf |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6206 ZZ | 6203 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.

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 28/10/2024 | | 1 / 2 | |

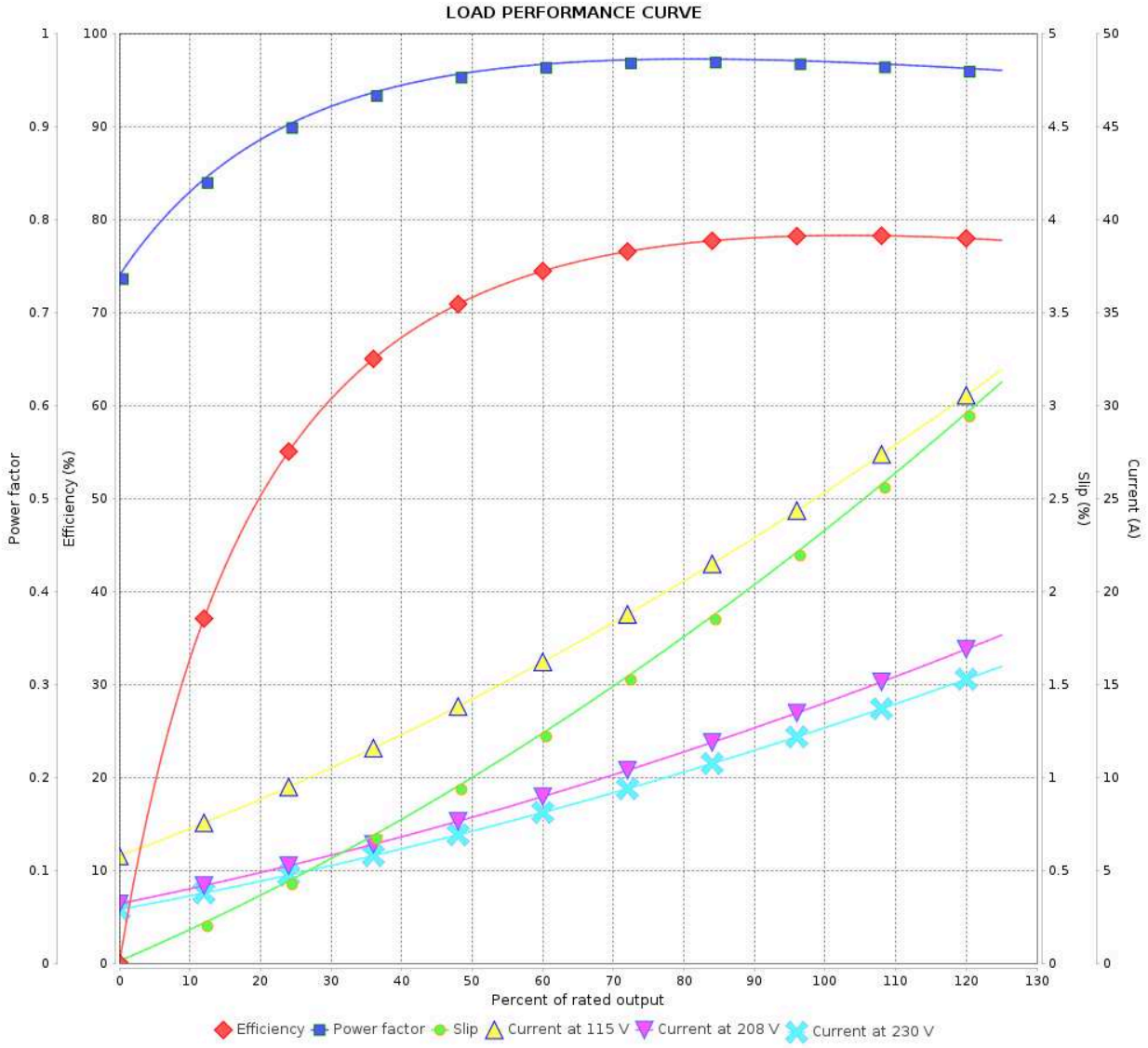
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

# LOAD PERFORMANCE CURVE

## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 JM Pump Single-Phase Product code : 14184284

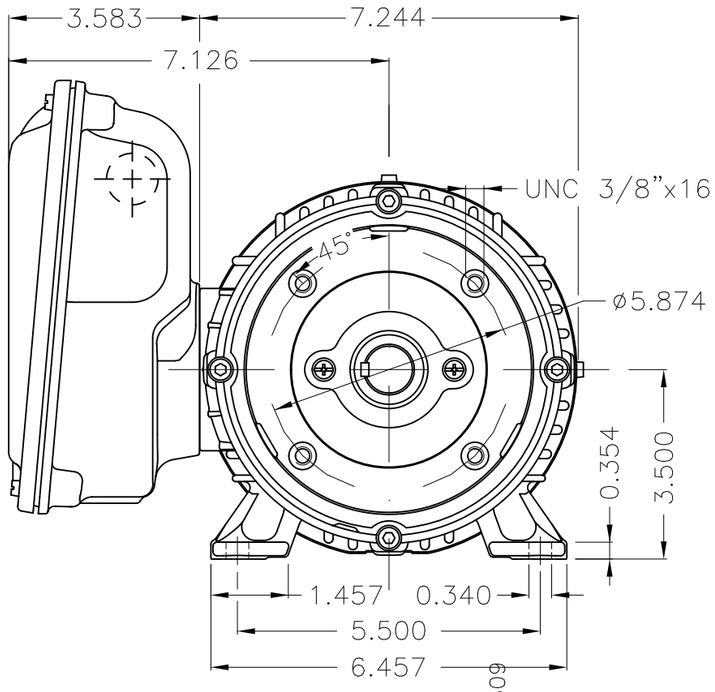


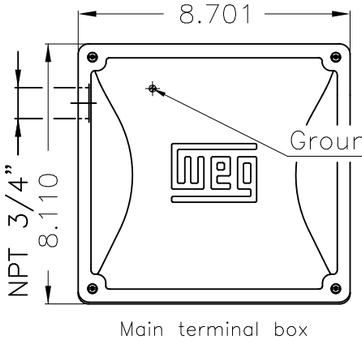

| | | | |
|---|---|---|---|
| Performance | : 115/208-230 V 60 Hz 2P | | |
| Rated current | : 25.0/13.6-12.5 A | Moment of inertia (J) | : 0.0028 kgm² |
| LRC | : 7.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.619 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 3515 rpm | | |

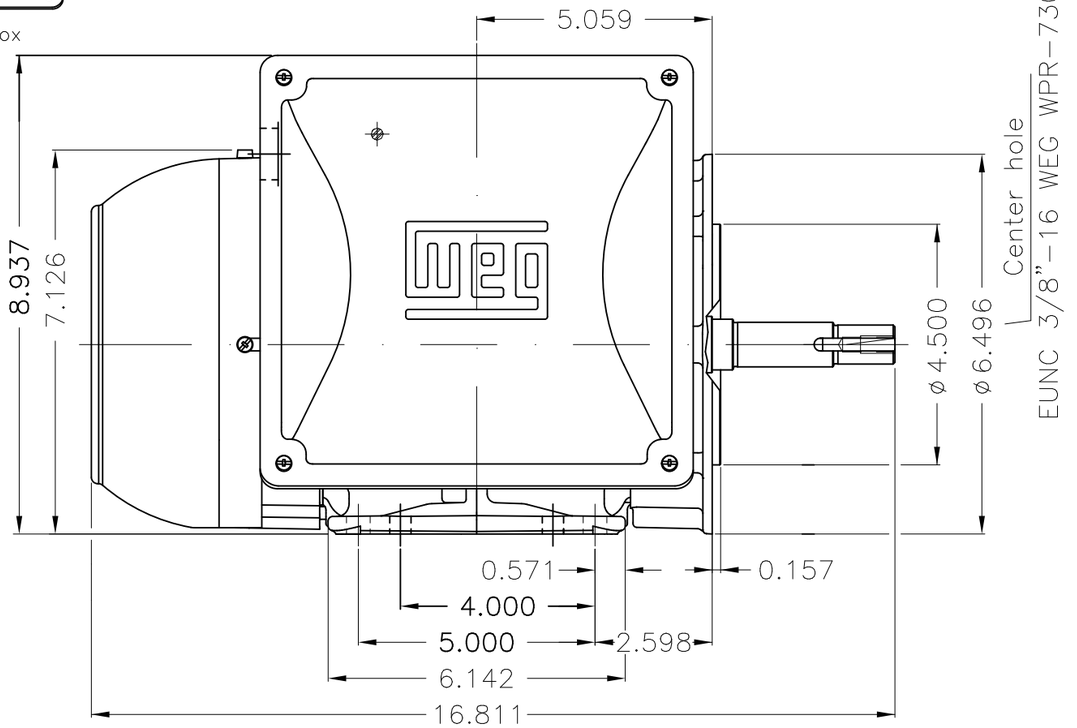
| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | |

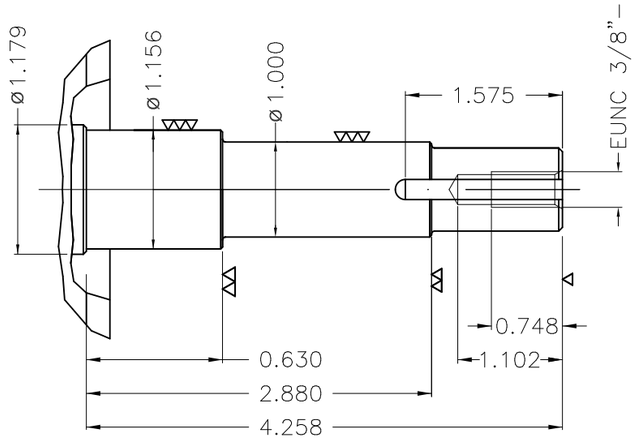
| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 28/10/2024 | | 2 / 2 | |

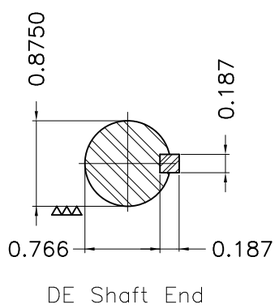
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice




Mounting NEMA F-1

Mounting B34R(D)

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|---|---|---|---|---|---|---|---|
| | | | HYBRISUSER | | | | 00 |

| | | | | | |
|---|---|---|---|---|---|
| EXECUTED | HYBRISUSER | SINGLE PH. MOTOR W22 CLOSE COUPLED PUMP JM TYPE | PREVIEW | | |
| CHECKED | | FRAME 143/5JM IP55 TEFC | WDD | 00 | |
| RELEASED | | | | | |
| REL. DATE | | WMO Jaragua do Sul Product Engineering | SHEET | 1 / 1 | |

3 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

WEG's property. Forbidden reproduction without previous authorization.