# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

Customer :

| | | | |
|---|---|---|---|
| Product line | : General Single-Phase | Product code : | 12322731 |

| | | | |
|---|---|---|---|
| Frame | : F143/5TC | Locked rotor time | : 10s (cold) 6s (hot) |
| Output | : 1 HP (0.75 kW) | Temperature rise | : 80 K |
| Poles | : 4 | 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 | : 14.0/6.80-7.00 A | Protection degree | : IP55 |
| L. R. Amperes | : 91.0/44.2-45.5 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.5x(Code M) | Mounting | : F-1 |
| No load current | : 11.5/4.96-5.75 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1750 rpm | Noise level[2] | : 55.0 dB(A) |
| Slip | : 2.78 % | Starting method | : Direct On Line |
| Rated torque | : 0.415 kgfm | Approx. weight[3] | : 18.1 kg |
| Locked rotor torque | : 320 % | | |
| Breakdown torque | : 270 % | | |
| Insulation class | : B | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0056 kgm² | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 60.0 | 67.0 | 70.3 |
| Power Factor | 0.45 | 0.56 | 0.65 |

Foundation loads

| | |
|---|---|
| Max. traction | : 23 kgf |
| Max. compression | : 41 kgf |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6205 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 |
|---|---|---|---|---|
| | | | | |

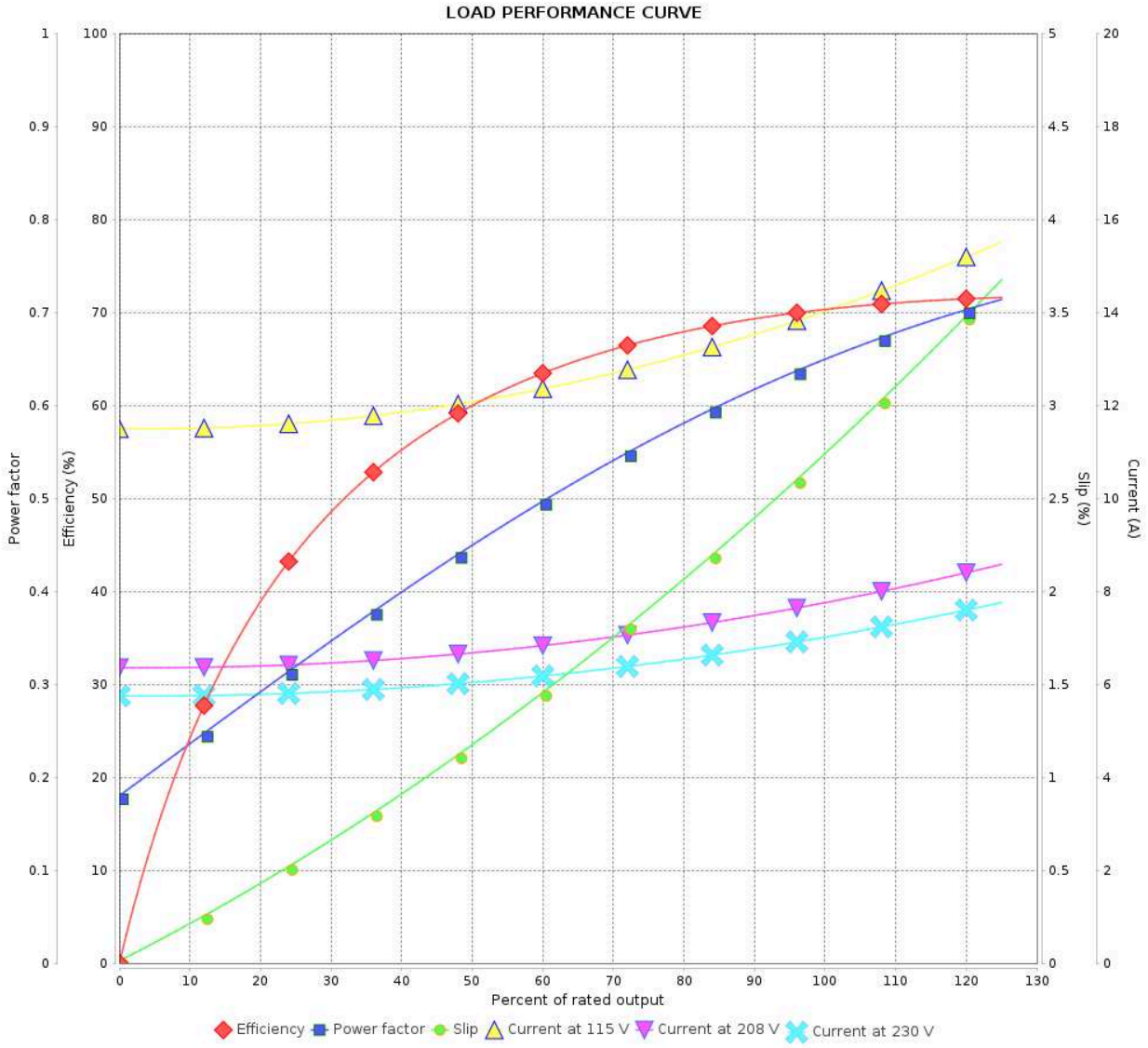
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| Date | 26/10/2024 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Single Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
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| Product line | : General Single-Phase | Product code : | 12322731 |

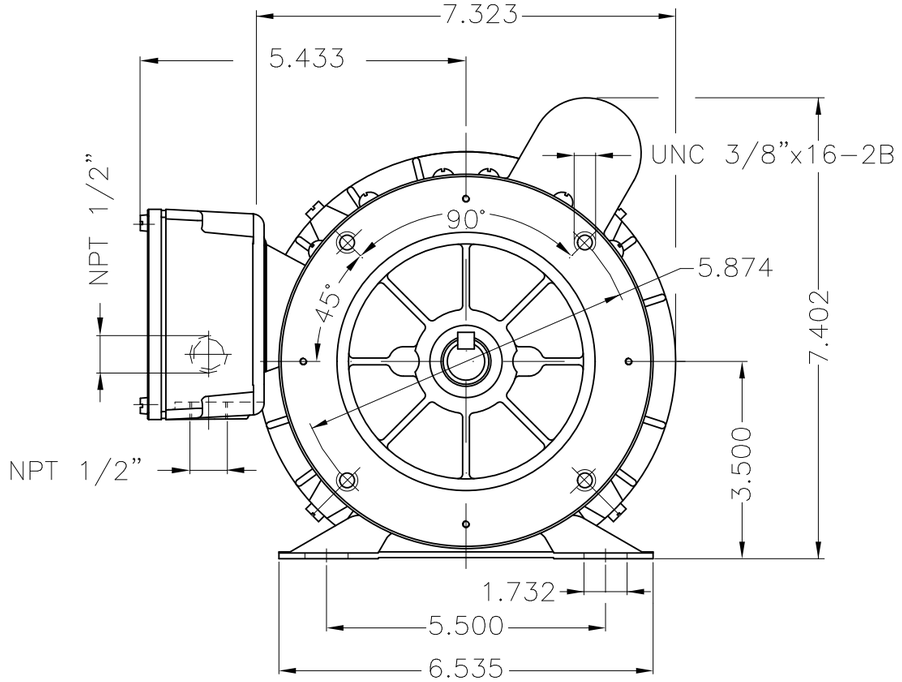


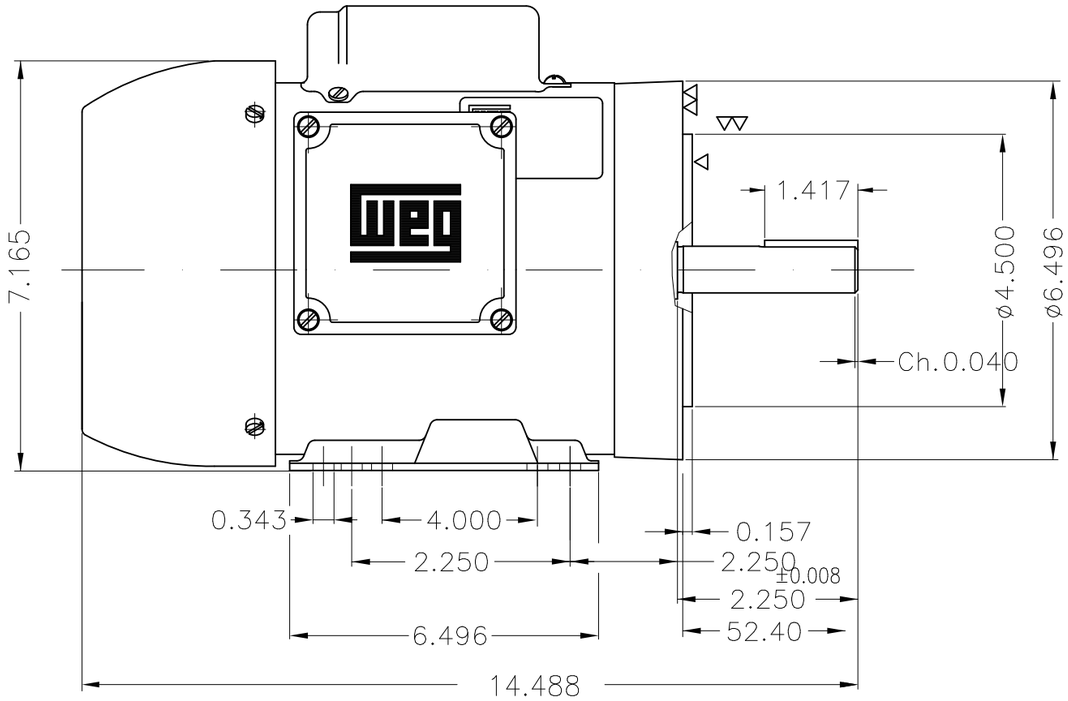

| | | | |
|---|---|---|---|
| Performance | : 115/208-230 V 60 Hz 4P | | |
| Rated current | : 14.0/6.80-7.00 A | Moment of inertia (J) | : 0.0056 kgm² |
| LRC | : 6.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.415 kgfm | Insulation class | : B |
| Locked rotor torque | : 320 % | Service factor | : |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1750 rpm | | |

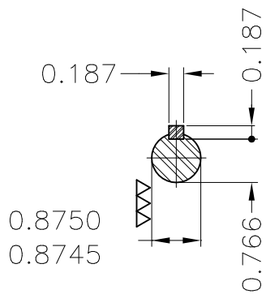
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Plastic flat plug

Mounting B34R(D)

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

| | | | | | |
|---|---|---|---|---|---|
| EXECUTED | HYBRISUSER | SINGLE PH. MOTOR GENERAL | PREVIEW | | |
| CHECKED | | FRAME F143/5TC IP55 TEFC | WDD | 00 | |
| RELEASED | | | | | |
| REL. DATE | | WMO Jaragua do Sul Product Engineering | SHEET | 1 / 1 | |

1 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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