# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 19322053

| | | | |
|---|---|---|---|
| Frame | : 143/5T | Locked rotor time | : 50s (cold) 28s (hot) |
| Output | : 1 HP (0.75 kW) | Temperature rise | : 80 K |
| Poles | : 6 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 1.73 A | Protection degree | : IP56 |
| L. R. Amperes | : 10.7 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.2x(Code K) | Mounting | : F-2 |
| No load current | : 1.10 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1160 rpm | Noise level[2] | : 50.0 dB(A) |
| Slip | : 3.33 % | Starting method | : Direct On Line |
| Rated torque | : 0.626 kgfm | Approx. weight[3] | : 24.0 kg |
| Locked rotor torque | : 260 % | | |
| Breakdown torque | : 300 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0067 kgm² | | |
| Design | : B | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 77.0 | 82.0 | 82.5 |
| Power Factor | 0.45 | 0.57 | 0.66 |

Foundation loads

Max. traction : 47 kgf

Max. compression : 74 kgf

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) |
|---|---|---|---|---|---|---|
| 20.0 | 16.7 | 16.9 | 12.6 | 9.2 | 7.6 | 5.8 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6205 C3 | 6204 C3 |
| Sealing | : | Inpro/Seal | Inpro/Seal |
| Lubrication interval | : | 20000 h | 20000 h |
| Lubricant amount | : | 4 g | 4 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 |
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| Date | 24/07/2026 | | 1 / 2 | |

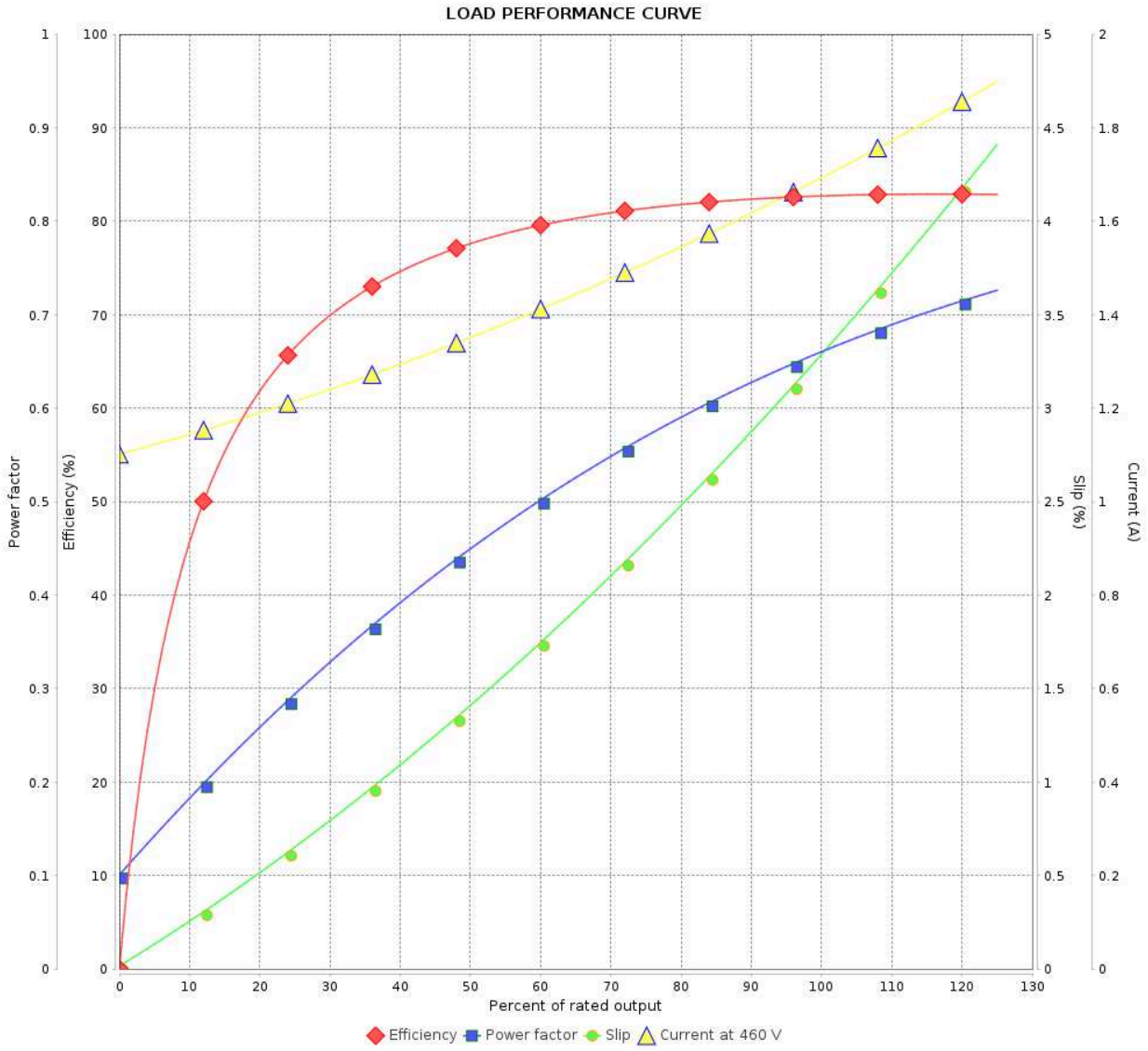
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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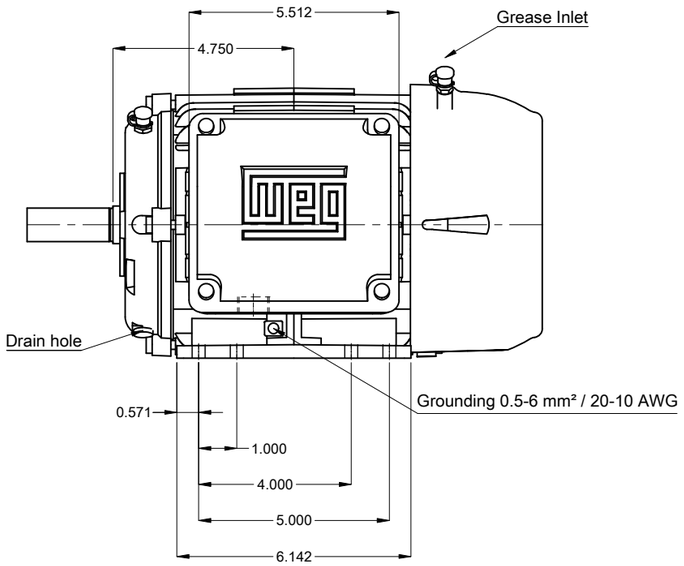


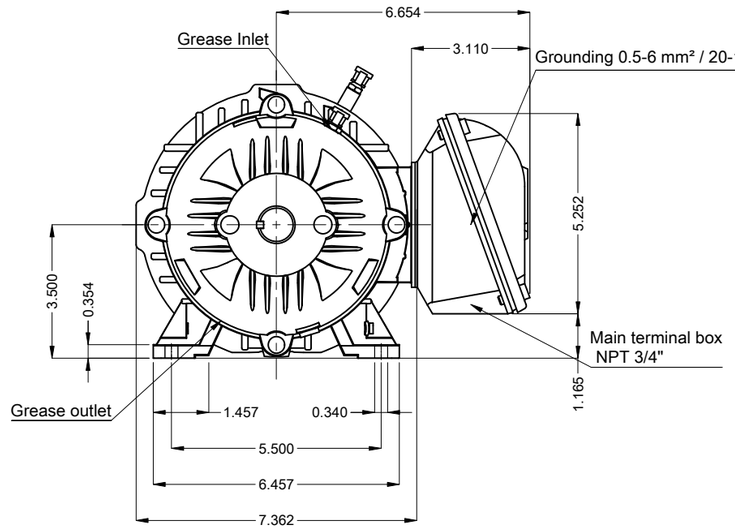

| | | | |
|---|---|---|---|
| Performance | : 460 V 60 Hz 6P | | |
| Rated current | : 1.73 A | Moment of inertia (J) | : 0.0067 kgm² |
| LRC | : 6.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.626 kgfm | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.25 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1160 rpm | Design | : B |

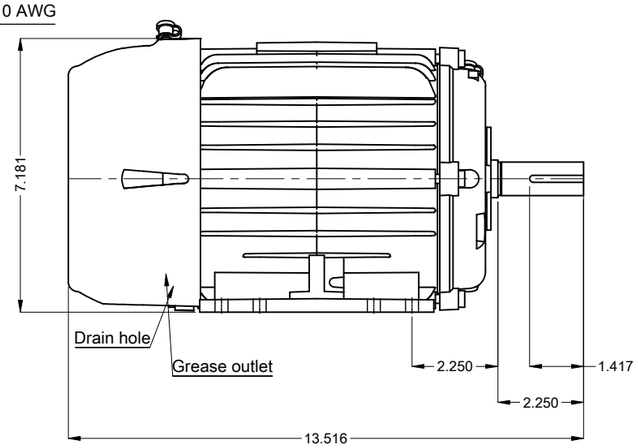
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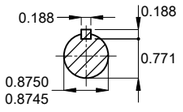



| |
|---|
| Grease outlet on endshields |
| Color RAL 5009 |
| Painting plan 202E |
| Mounting NEMA F-2 |
| Mounting B3L(E) |

DE Shaft End




1 HP 06 Poles 60 Hz | A

Scale 1 : 4

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

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|---|---|
| EXECUTED | HYBRISUSER |
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| RELEASED | |
| REL. DATE | |

THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF.
FRAME 143/5T IP56 TEFC

PREVIEW

WDD | 00

SHEET 1 / 1

Dimensions in inches

A3

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