# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

| | | | |
|---|---|---|---|
| Product line | : W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase | Product code : | 16385573 |

| | | | |
|---|---|---|---|
| Frame | : 182/4JM | Locked rotor time | : 28s (cold) 16s (hot) |
| Output | : 1.5 HP (1.1 kW) | Temperature rise | : 80 K |
| Poles | : 6 | 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 | : 2.03 A | Protection degree | : IP55 |
| L. R. Amperes | : 15.8 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.8x(Code M) | Mounting | : F-1 |
| No load current | : 1.30 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1170 rpm | Noise level[2] | : 52.0 dB(A) |
| Slip | : 2.50 % | Starting method | : Direct On Line |
| Rated torque | : 0.930 kgfm | Approx. weight[3] | : 42.7 kg |
| Locked rotor torque | : 320 % | | |
| Breakdown torque | : 400 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0206 kgm² | | |
| Design | : B | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 84.0 | 86.5 | 87.5 |
| Power Factor | 0.45 | 0.54 | 0.62 |

Foundation loads

| | |
|---|---|
| Max. traction | : 56 kgf |
| Max. compression | : 99 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) |
|---|---|---|---|---|---|---|
| 13.4 | 10.3 | 9.3 | 8.8 | 5.8 | 4.8 | 3.5 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6307 ZZ | 6206 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 | 23/10/2024 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
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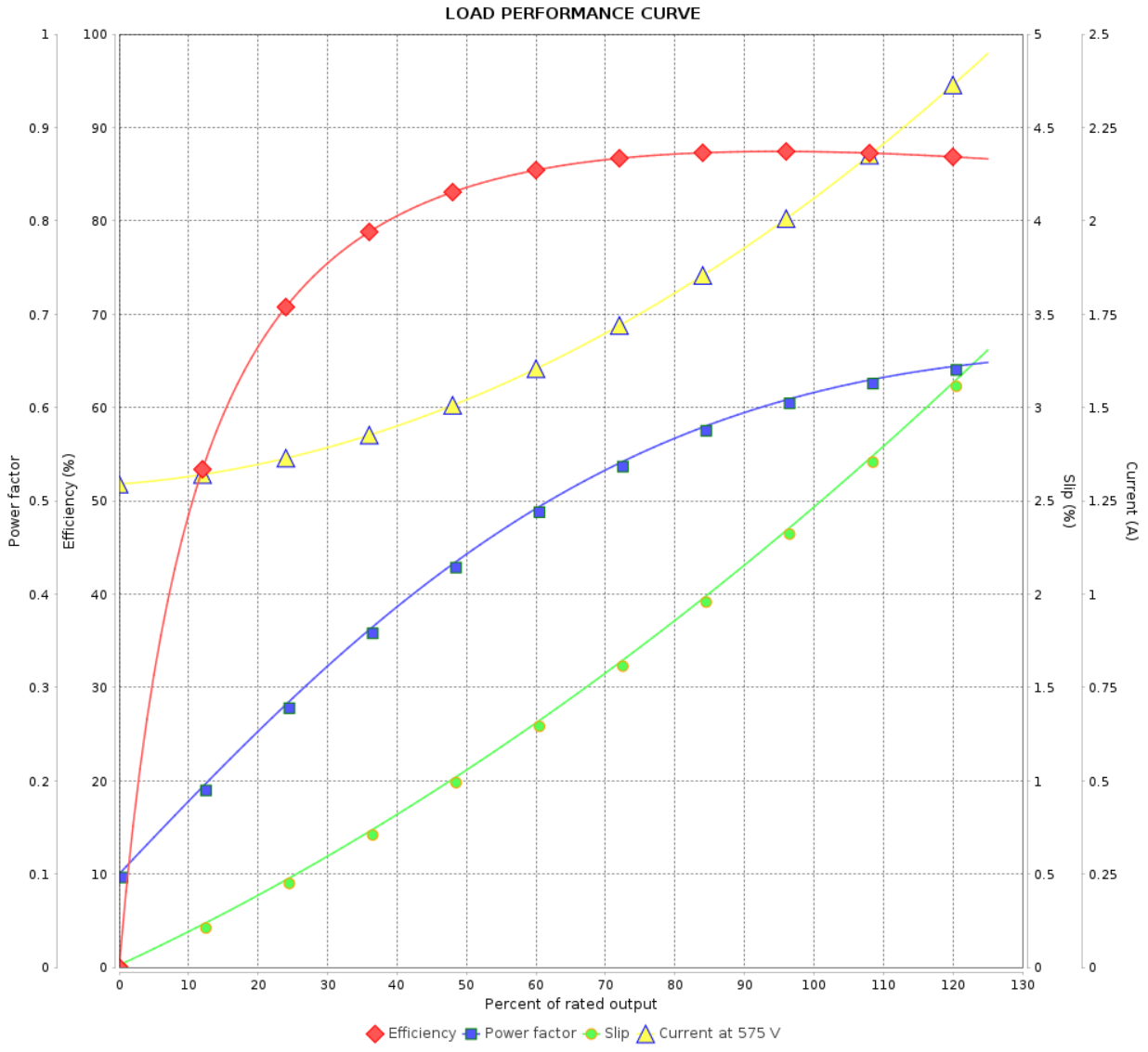
| Product line | : W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase | Product code : | 16385573 |




| | | | |
|---|---|---|---|
| Performance | : 575 V 60 Hz 6P | | |
| Rated current | : 2.03 A | Moment of inertia (J) | : 0.0206 kgm² |
| LRC | : 7.8 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.930 kgfm | Insulation class | : F |
| Locked rotor torque | : 320 % | Service factor | : 1.25 |
| Breakdown torque | : 400 % | Temperature rise | : 80 K |
| Rated speed | : 1170 rpm | Design | : B |

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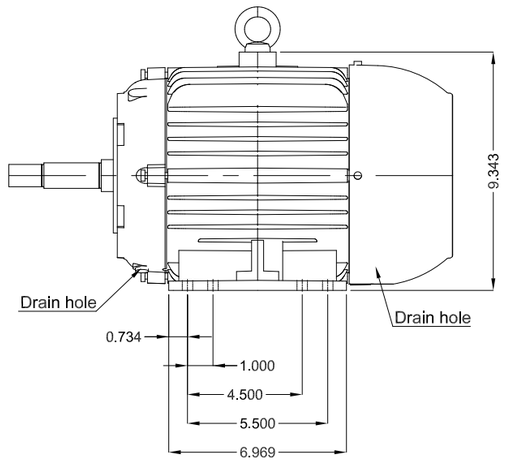
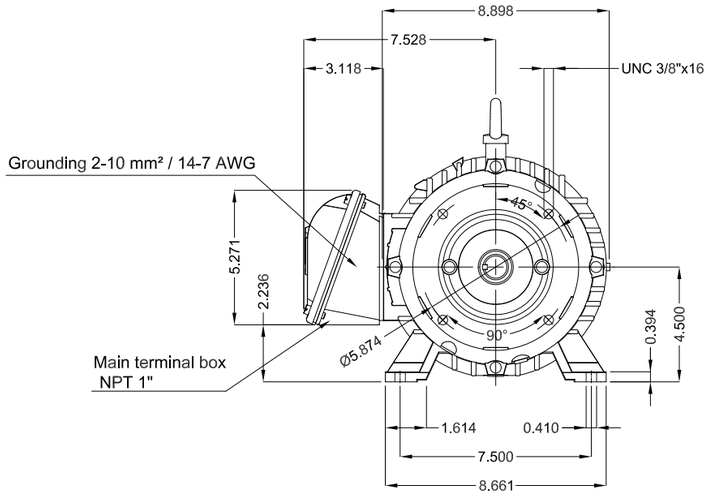
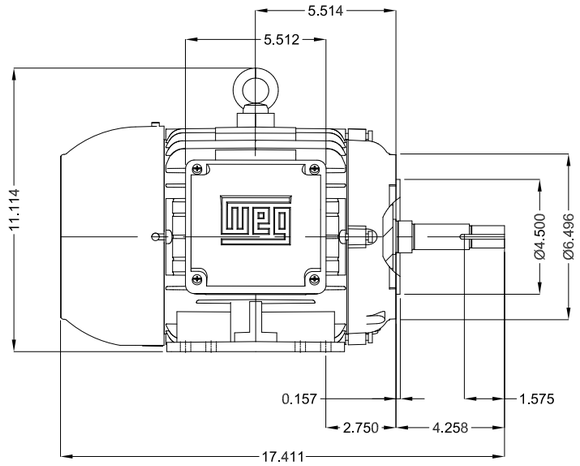
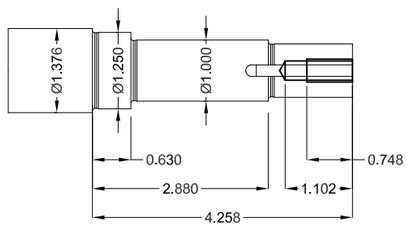
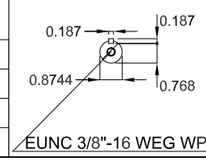



DE Shaft End




EUNC 3/8"-16 WEG WPR-7309

Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B34R(D)

1.5 HP 06 Poles 60 Hz | A

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

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

THREE PH. MOTOR JM/JP/JET PUMP W22 NEMA PREM. EFF.
FRAME 182/4JM IP55 TEFC

PREVIEW

WDD 00

SHEET /

Dimensions in inches

A3

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