# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

| | | | |
|---|---|---|---|
| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase | Product code : | 14266924 |

| | | | |
|---|---|---|---|
| Frame | : 145HP | Locked rotor time | : 25s (cold) 14s (hot) |
| Output | : 1.5 HP (1.1 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 4.36 A | Protection degree | : IP55 |
| L. R. Amperes | : 36.6 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.4x(Code L) | Mounting | : W-6 |
| No load current | : 1.90 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1755 rpm | Noise level[2] | : 51.0 dB(A) |
| Slip | : 2.50 % | Starting method | : Direct On Line |
| Rated torque | : 0.620 kgfm | Approx. weight[3] | : 25.9 kg |
| Locked rotor torque | : 290 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0060 kgm² | | |
| Design | : B | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 82.5 | 85.5 | 86.5 |
| Power Factor | 0.60 | 0.70 | 0.79 |

Foundation loads

Max. traction

Max. compression

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) |
|---|---|---|---|---|---|---|
| 14.6 | 12.1 | 12.2 | 8.2 | 5.7 | 4.3 | 3.2 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6307 ZZ | 6204 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 |
|---|---|---|---|---|
| | | | | |

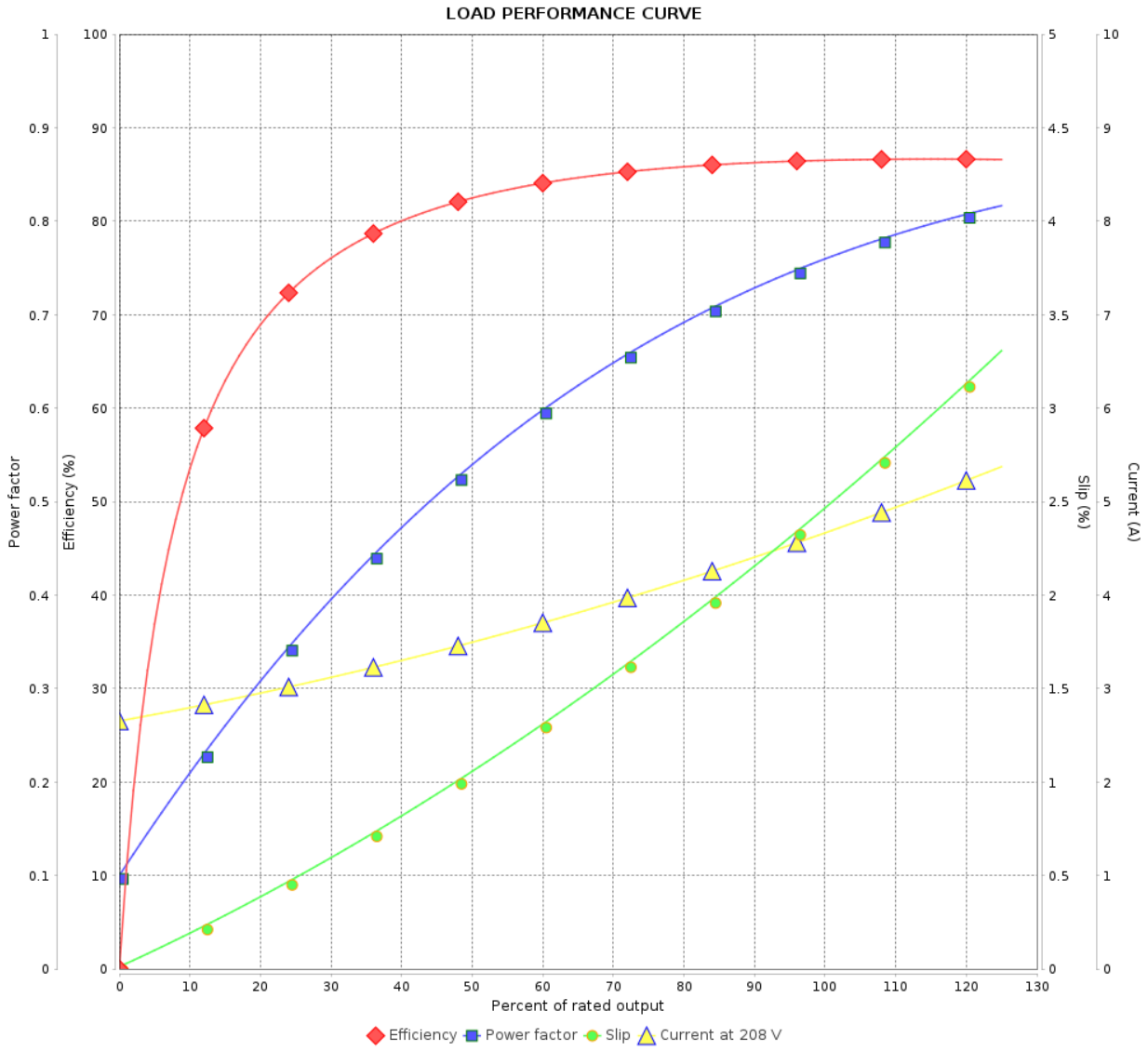
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| Date | 28/10/2024 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase | Product code : | 14266924 |

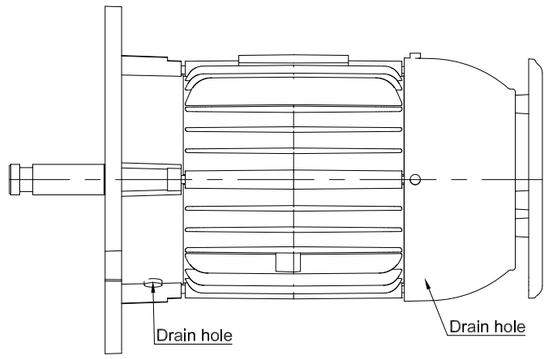


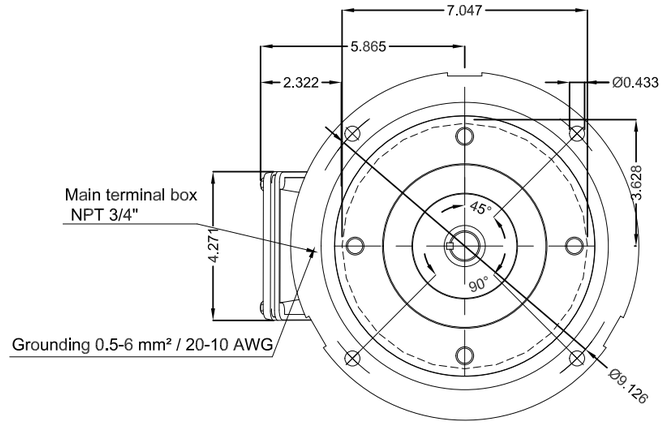

| | | | |
|---|---|---|---|
| Performance | : 208 V 60 Hz 4P | | |
| Rated current | : 4.36 A | Moment of inertia (J) | : 0.0060 kgm² |
| LRC | : 8.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.620 kgfm | Insulation class | : F |
| Locked rotor torque | : 290 % | Service factor | : 1.25 |
| Breakdown torque | : 350 % | Temperature rise | : 80 K |
| Rated speed | : 1755 rpm | Design | : B |

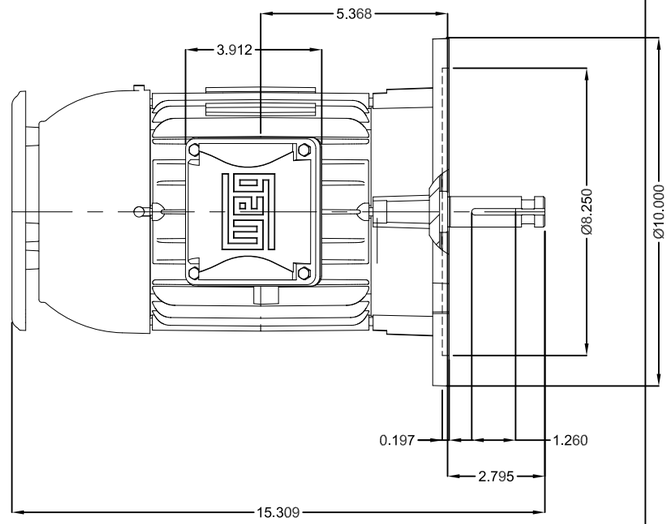
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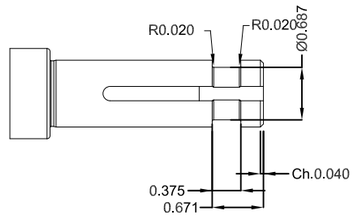
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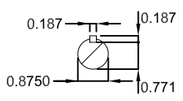



DE Shaft End




Color RAL 5009
Painting plan 207A
Mounting NEMA W-6
Mounting V1

1.5 HP 04 Poles 60 Hz | A

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

| | | | |
|---|---|---|---|
| EXECUTED | HYBRISUSER | THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF. | PREVIEW |
| CHECKED | | FRAME 145HP IP55 TEFC | WDD 00 |
| RELEASED | | | SHEET / |
| REL. DATE | | | |

Dimensions in inches

A3

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