

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | | |
|--|---------------------------|--|--------------|--|--------------------------|----------------|--|
| Customer : | | | | | | | |
| Product line | | : Rolled Steel NEMA Premium Efficiency Three-Phase | | | Product code : 12651247 | | |
| Frame | : 213/5TC | | | Locked rotor time | : 27s (cold) 15s (hot) | | |
| Output | : 10 HP (7.5 kW) | | | Temperature rise | : 80 K | | |
| Frequency | : 60 Hz | | | Duty cycle | : Cont.(S1) | | |
| Rated voltage | : 230/460 V | | | Ambient temperature | : -20°C to +40°C | | |
| Poles | : 4 | | | Altitude | : 1000 m.a.s.l. | | |
| Rated current | : 24.2/12.1 A | | | Protection degree | : IP55 | | |
| | : 7.3x(Code H) | | | Cooling method | : IC411 - TEFC | | |
| Rated speed | : 1770 rpm | | | Mounting | : F-1 | | |
| Rated torque | : 4.10 kgfm | | | Rotation ¹ | : Both (CW and CCW) | | |
| Insulation class | : F | | | Noise level ² | : 60.0 dB(A) | | |
| Service factor | : 1.15 | | | Starting method | : Direct On Line | | |
| Moment of inertia (J) | : 0.0451 kgm ² | | | Approx. weight ³ | : 73.6 kg | | |
| Design | : B | | | | | | |
| Output | 25% | 50% | 75% | 100% | Foundation loads | | |
| Efficiency (%) | 0.000 | 90.2 | 91.0 | 91.7 | Max. traction : 0 kgf | | |
| Power Factor | 0.00 | 0.68 | 0.80 | 0.85 | Max. compression : 0 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) | |
| 8.8 | 7.7 | 7.3 | 4.2 | 3.0 | 2.0 | 1.5 | |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | | |
| Bearing type | : | 6208 ZZ | | 6206 ZZ | | | |
| Sealing | : | V'Ring | | Without Bearing Seal | | | |
| Lubrication interval | : | - | | - | | | |
| Lubricant amount | : | - | | - | | | |
| Lubricant type | : | Mobil Polyrex EM | | | | | |
| Notes | | | | | | | |
| USABLE @208V 27.0A SF 1.00 SFA 27.0A | | | | | | | |
| 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 | 05/06/2026 | | | | 1 / 2 | | |

LOAD PERFORMANCE CURVE

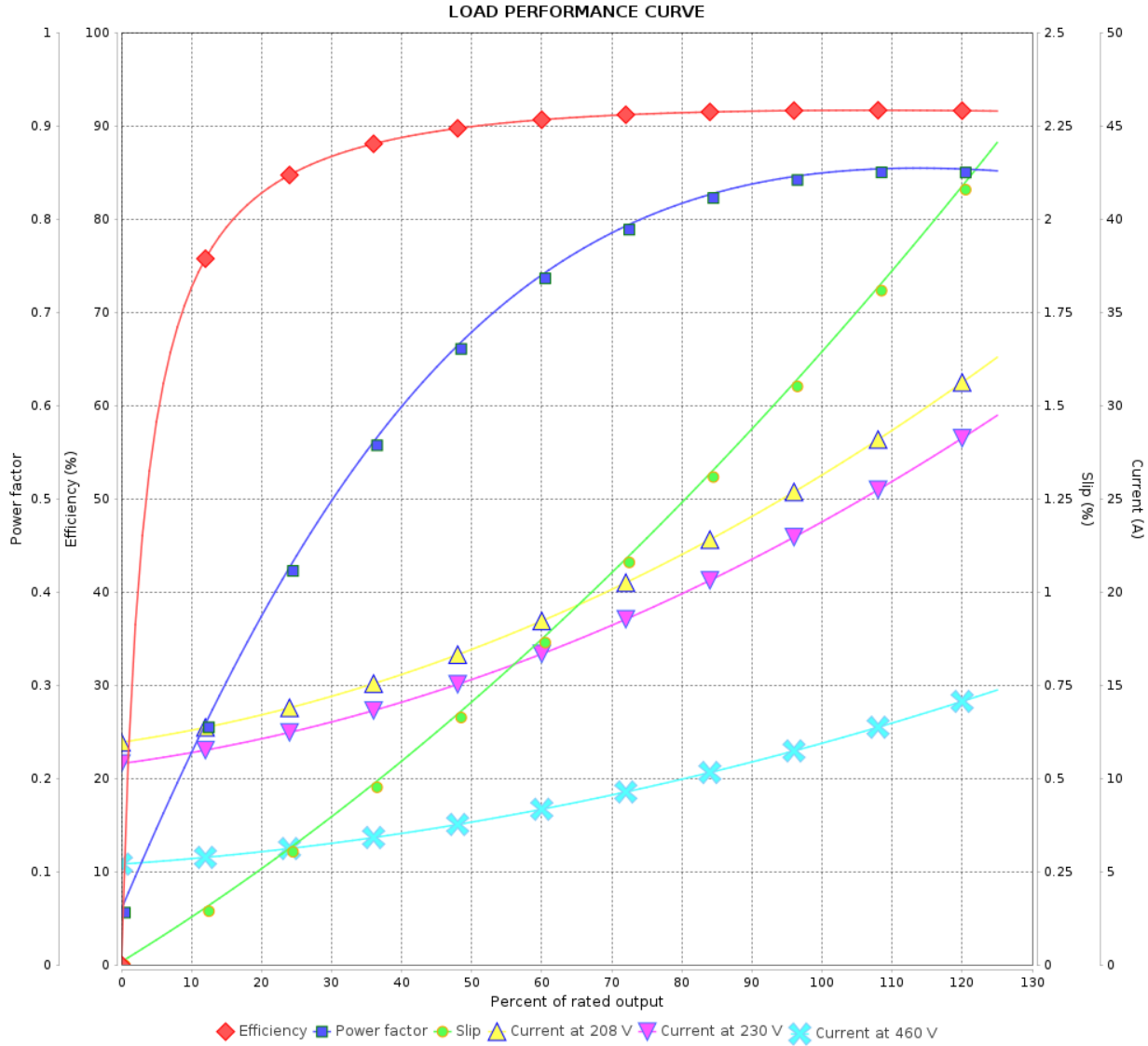
Three Phase Induction Motor - Squirrel Cage



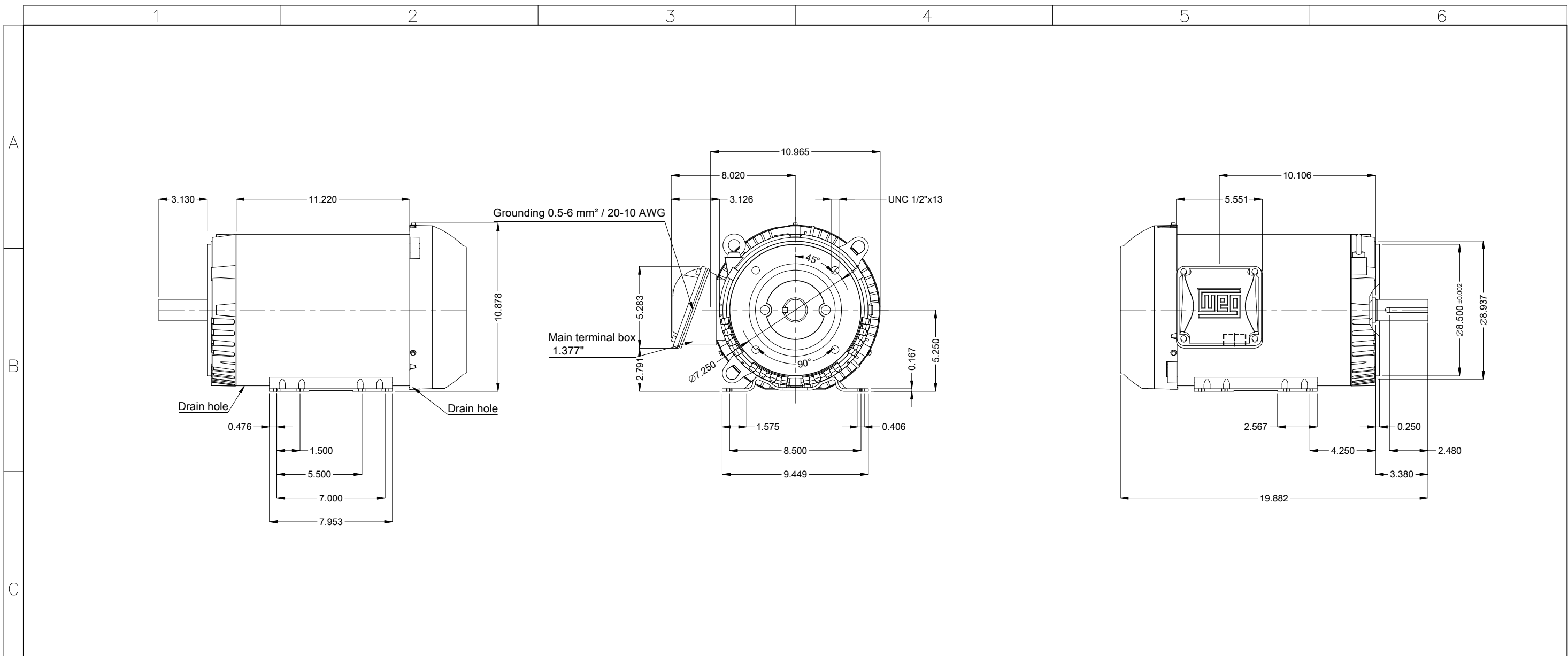
Customer : _____

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

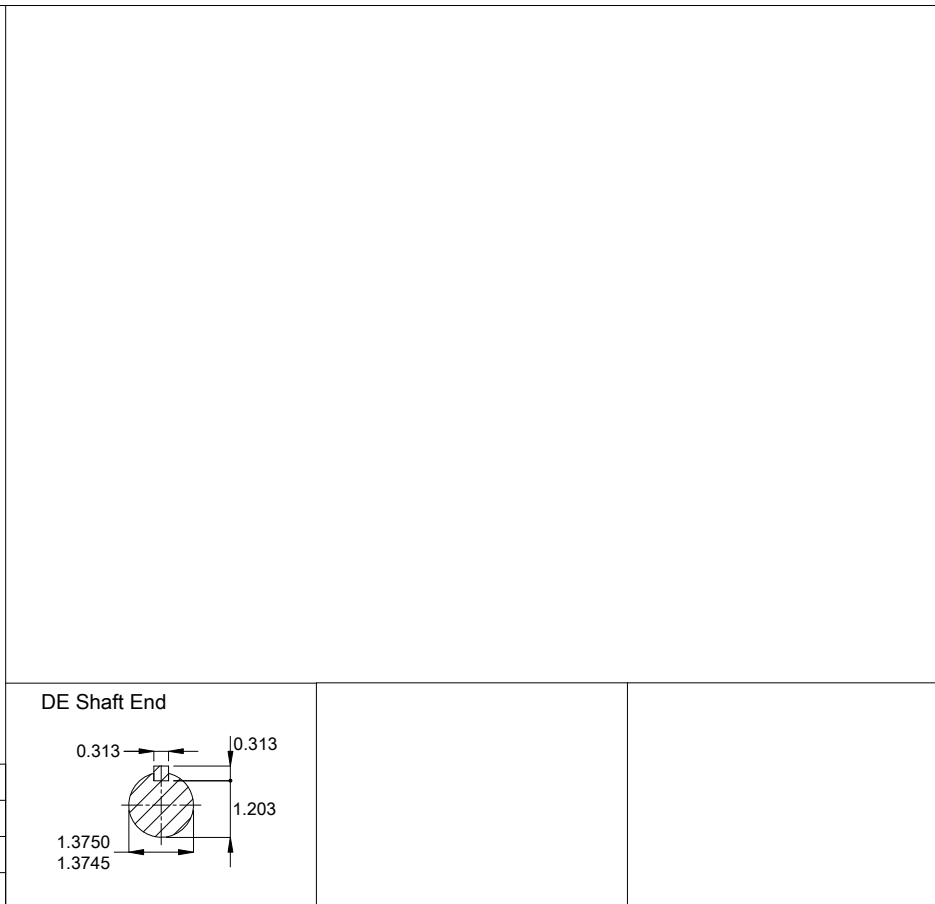
Product code : 12651247



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| Checked by | | | | |
| Date | | | | |
| | | | Page 2 / 2 | Revision |



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|-------------------------------|
| Color Munsell N 1 matte black |
| Painting plan 207N |
| Mounting MARKET F-1/B34R(D) |
| Mounting B34D |



| | | | | | | | | | | | |
|----------------------|------------|--|--|--|--|--|-------------|---------|----------|------|-----|
| 10 HP 04 Poles 60 Hz | | | | | | | | | | A | |
| Scale 2 : 13 | | | | | | | | | | | |
| HYBRISUSER | | | | | | | | | | 00 | |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | | | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF. | | | | | PREVIEW | | WDD 00 | | |
| CHECKED | | FRAME 213/5TC IP55 TEFC | | | | | SHEET 1 / 1 | | | | |
| RELEASED | | | | | | | | | | | |
| REL. DATE | | | | | | | | | | | |