

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | |
|---|-----------------------|--|--|----------|----------|
| Customer : | | | | | |
| Product line | | : Rolled Steel NEMA Premium Efficiency Three-Phase | Product code : | 12675351 | |
| Frame | : 182/4TC | Cooling method | : IC411 - TEFC | | |
| Insulation class | : F | Mounting | : F-1 | | |
| Duty cycle | : Cont.(S1) | Rotation ¹ | : Both (CW and CCW) | | |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line | | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ | : 28.4 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0066 kgm ² | | |
| Design | : B | | | | |
| Output [HP] | 3 | 2 | 2 | | |
| Poles | 2 | 2 | 2 | | |
| Frequency [Hz] | 60 | 50 | 50 | | |
| Rated voltage [V] | 230/460 | 190-220/380 | 415 | | |
| Rated current [A] | 7.52/3.76 | 6.56-5.67/3.28 | 3.19 | | |
| L. R. Amperes [A] | 66.2/33.1 | 60.4-52.1/30.2 | 33.2 | | |
| LRC [A] | 8.8x(Code K) | 9.2x(Code L) | 10.4x(Code N) | | |
| No load current [A] | 3.40/1.70 | 3.40-2.94/1.70 | 2.00 | | |
| Rated speed [RPM] | 3515 | 2920 | 2940 | | |
| Slip [%] | 2.36 | 2.67 | 2.00 | | |
| Rated torque [kgfm] | 0.619 | 0.497 | 0.494 | | |
| Locked rotor torque [%] | 240 | 300 | 350 | | |
| Breakdown torque [%] | 350 | 400 | 480 | | |
| Service factor | 1.15 | 1.15 | 1.15 | | |
| Temperature rise | 80 K | 80 K | 80 K | | |
| Locked rotor time | 45s (cold) 25s (hot) | 55s (cold) 31s (hot) | 46s (cold) 26s (hot) | | |
| Noise level ² | 68.0 dB(A) | | 65.0 dB(A) | | |
| Efficiency (%) | 25% | | | | |
| | 50% | 84.0 | 83.3 | 81.6 | |
| | 75% | 86.5 | 85.0 | 85.1 | |
| | 100% | 86.5 | 85.9 | 86.2 | |
| Power Factor | 25% | | | | |
| | 50% | 0.70 | 0.62 | 0.56 | |
| | 75% | 0.80 | 0.73 | 0.67 | |
| | 100% | 0.85 | 0.81 | 0.76 | |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | |
| Losses (%) | P1 (0,9;1,0) | 14.2 | 14.9 | 14.5 | |
| | P2 (0,5;1,0) | 10.4 | 11.0 | 10.7 | |
| | P3 (0,25;1,0) | 10.2 | 10.8 | 10.5 | |
| | P4 (0,9;0,5) | 8.6 | 9.0 | 8.8 | |
| | P5 (0,5;0,5) | 4.8 | 5.1 | 4.9 | |
| | P6 (0,5;0,25) | 3.5 | 3.7 | 3.6 | |
| | P7 (0,25;0,25) | 2.2 | 2.3 | 2.3 | |
| Bearing type | : Drive end : 6206 ZZ | Non drive end : 6205 ZZ | Foundation loads | | |
| Sealing | : V'Ring | Without Bearing Seal | Max. traction | : 35 kgf | |
| Lubrication interval | : - | - | Max. compression | : 63 kgf | |
| Lubricant amount | : - | - | | | |
| Lubricant type | : Mobil Polyrex EM | | | | |
| 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). | | | 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 |
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Notes
USABLE @208V 8.12A SF 1.00 SFA 8.12A

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| Performed by | | | | |
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LOAD PERFORMANCE CURVE

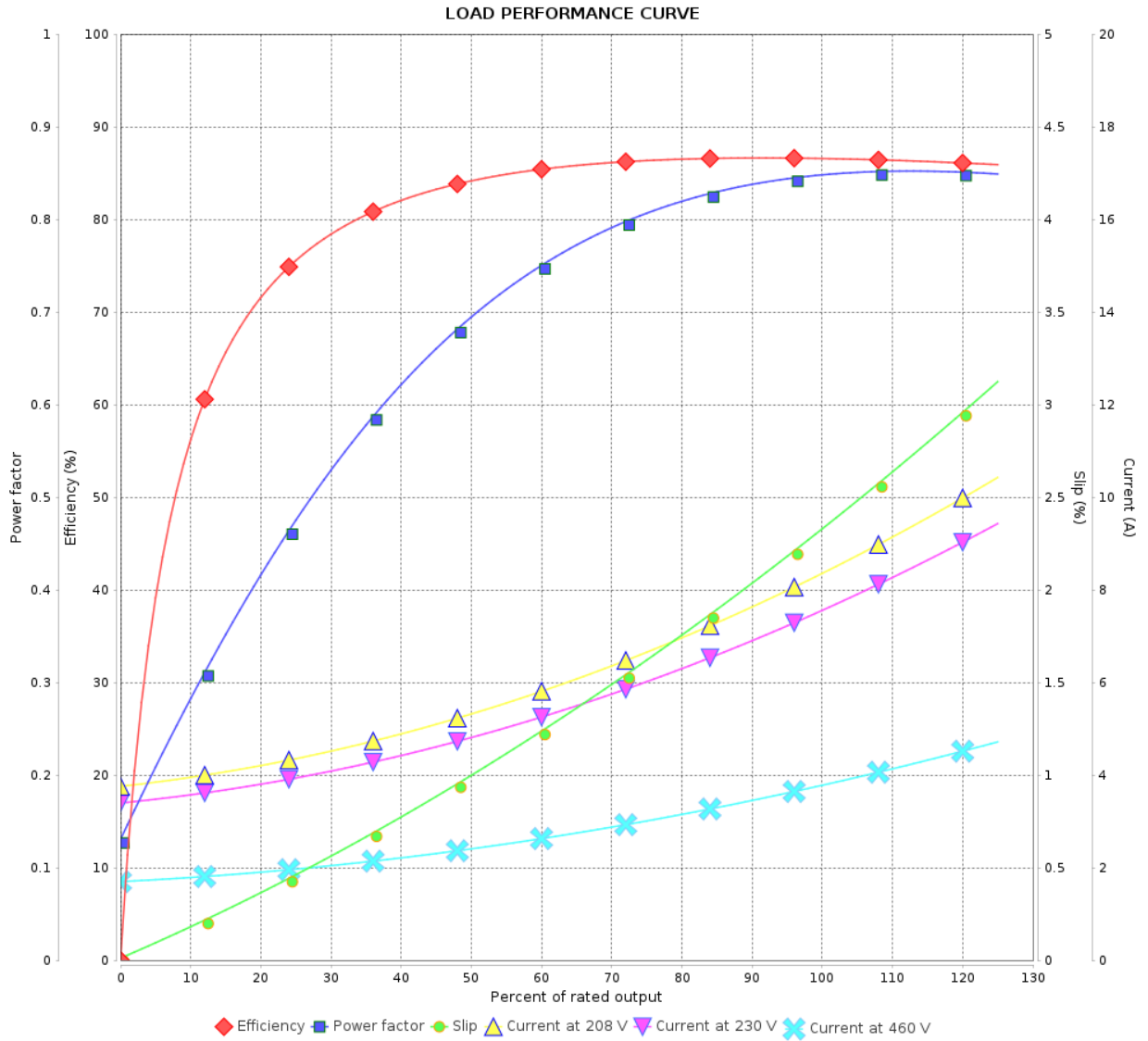
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Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12675351



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| Checked by | | | | |
| Date | | | | |

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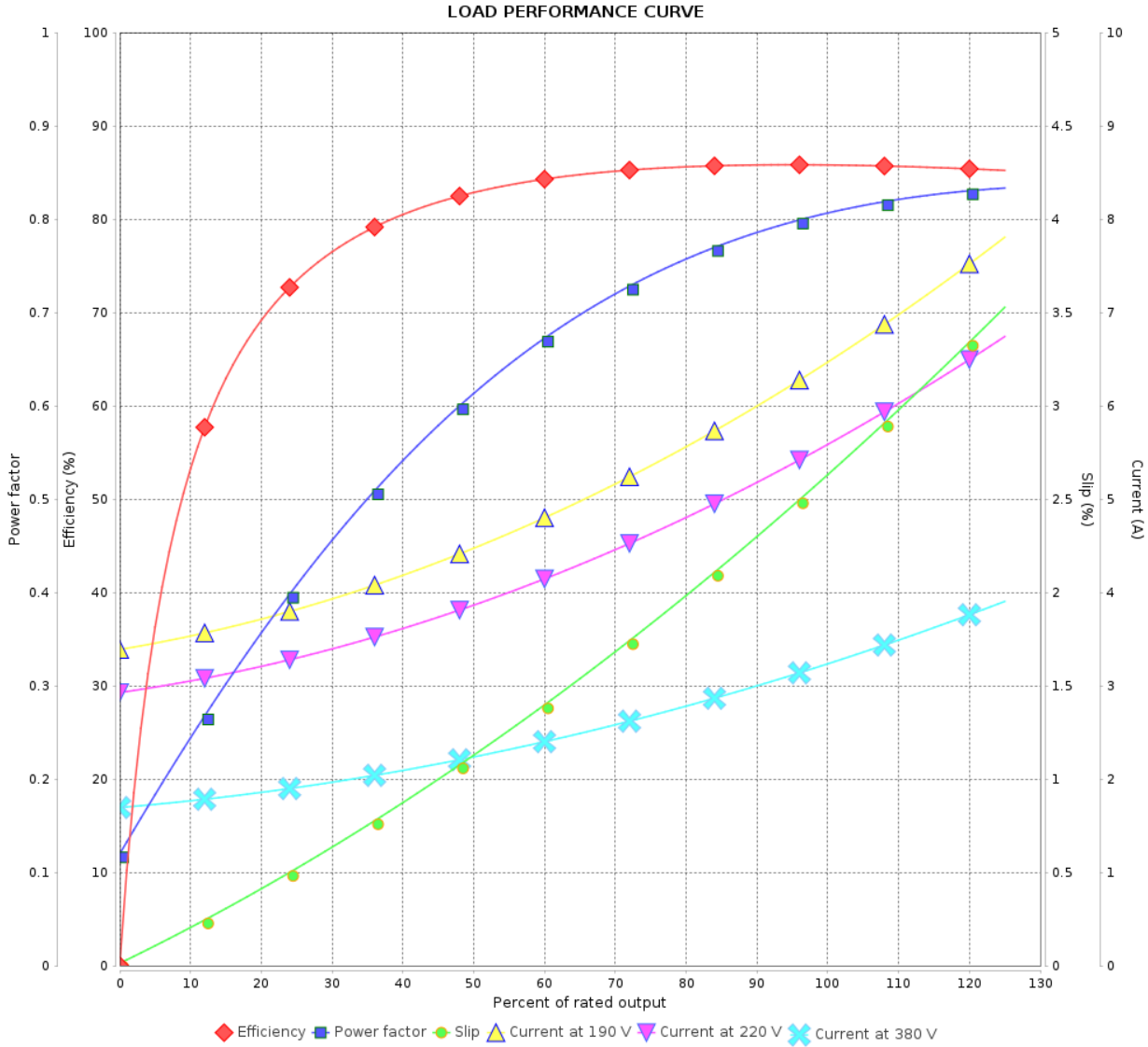
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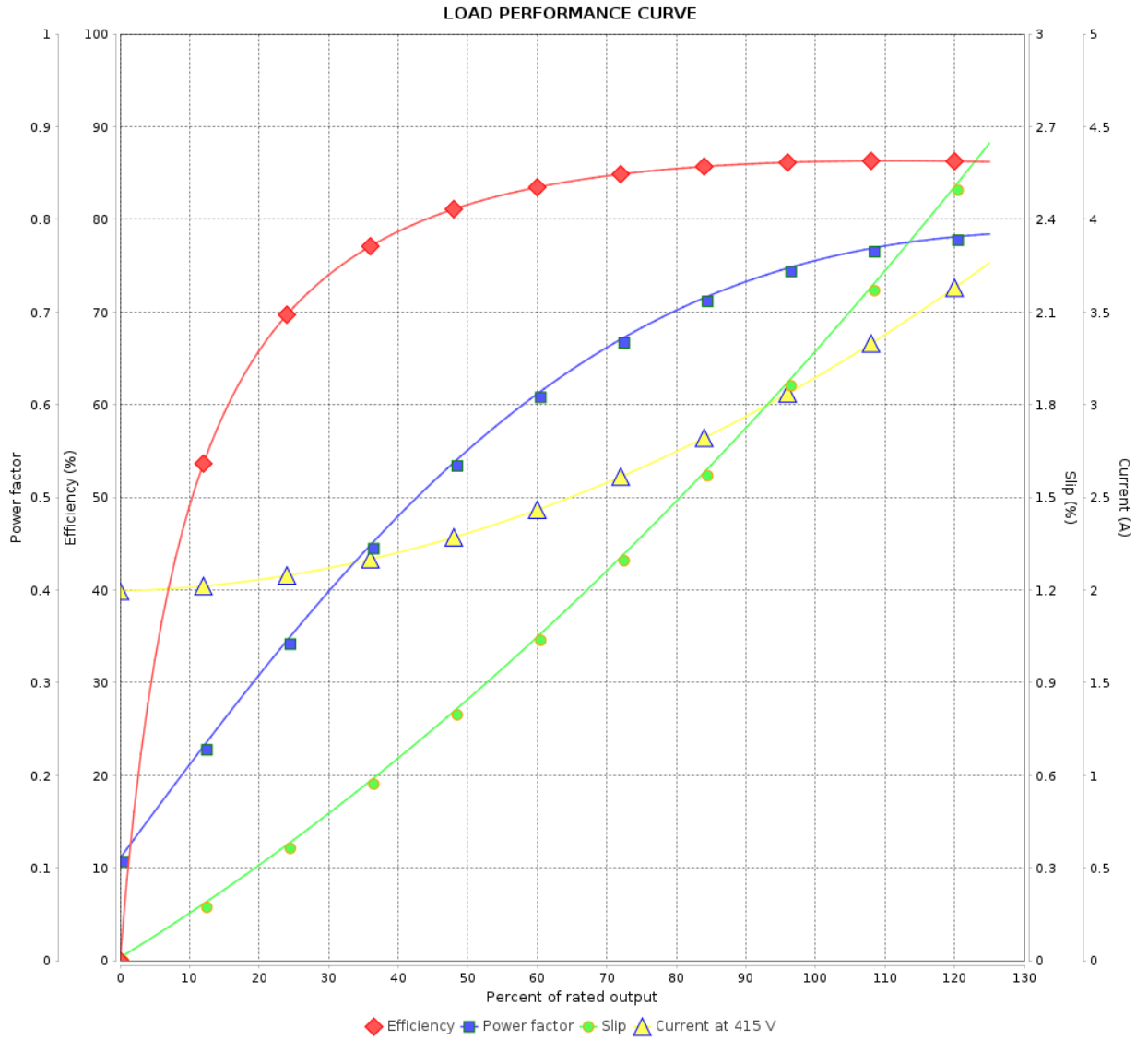
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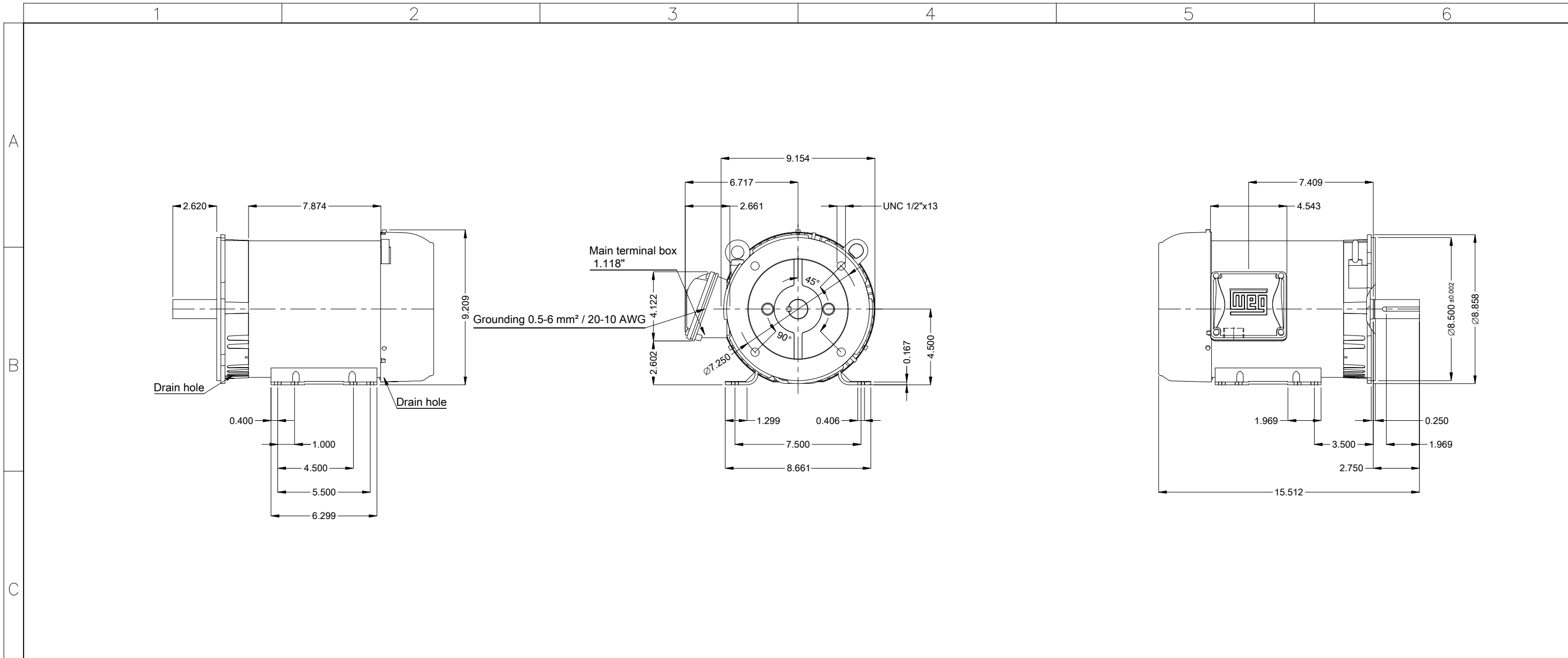
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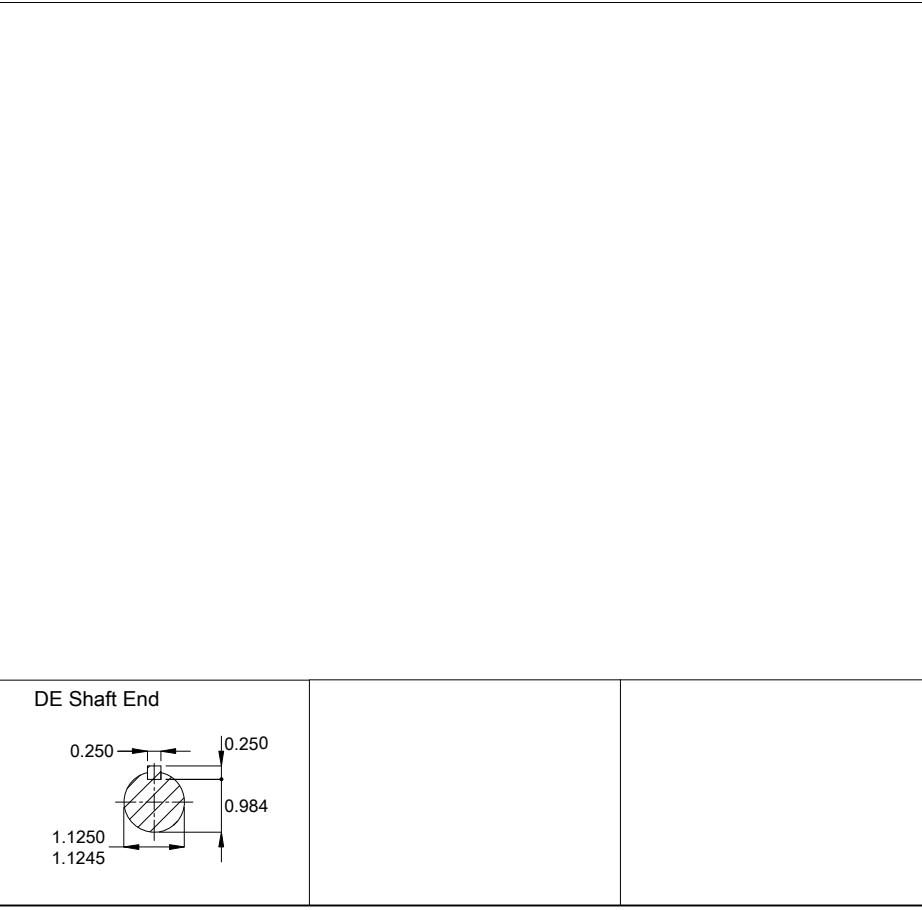
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Color Munsell N 1 matte black
 Painting plan 207N
 Mounting MARKET F-1/B34R(D)
 Mounting B34D



| | | | | | | | | | | | |
|---------------------|------------|--|--|--|--|--|----------|---------|----------|------|-----|
| 3 HP 02 Poles 60 Hz | | | | | | | | | | A | |
| Scale 1 : 6 | | | | | | | | | | | |
| HYBRISUSER | | | | | | | | | | 00 | |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | | | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF. | | | | | PREVIEW | | | | |
| CHECKED | | FRAME 182/4TC IP55 TEFC | | | | | WDD | 00 | | | |
| RELEASED | | | | | | | SHEET | | 1 / 1 | | |
| REL. DATE | | | | | | | | | | | |