

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | |
|---|--|--|---------------------------|----------------------|------|
| Customer : | | | | | |
| Product line | : W22 NEMA Premium Efficiency Three-Phase | Product code : | 12717206 | | |
| Frame | : 213/5TC | 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 | : 71.0 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0504 kgm ² | | |
| Design | : B | | | | |
| Output [HP] | 3 | 3 | 3 | 3 | |
| Poles | 6 | 6 | 6 | 6 | |
| Frequency [Hz] | 60 | 50 | 50 | 50 | |
| Rated voltage [V] | 230/460 | 380 | 400 | 415 | |
| Rated current [A] | 8.82/4.41 | 5.09 | 4.97 | 4.93 | |
| L. R. Amperes [A] | 61.7/30.9 | 29.5 | 31.8 | 33.5 | |
| LRC [A] | 7.0x(Code K) | 5.8x(Code H) | 6.4x(Code J) | 6.8x(Code K) | |
| No load current [A] | 5.10/2.55 | 2.45 | 2.60 | 2.75 | |
| Rated speed [RPM] | 1175 | 965 | 970 | 970 | |
| Slip [%] | 2.08 | 3.50 | 3.00 | 3.00 | |
| Rated torque [kgfm] | 1.85 | 2.26 | 2.24 | 2.24 | |
| Locked rotor torque [%] | 190 | 170 | 180 | 200 | |
| Breakdown torque [%] | 270 | 229 | 240 | 250 | |
| Service factor | 1.25 | 1.00 | 1.00 | 1.00 | |
| Temperature rise | 80 K | 80 K | 80 K | 80 K | |
| Locked rotor time | 104s (cold) 58s (hot) | 72s (cold) 40s (hot) | 72s (cold) 40s (hot) | 72s (cold) 40s (hot) | |
| Noise level ² | 55.0 dB(A) | 53.0 dB(A) | 53.0 dB(A) | 53.0 dB(A) | |
| Efficiency (%) | 25% | | | | |
| | 50% | 86.5 | 87.0 | 87.0 | |
| | 75% | 88.5 | 88.0 | 88.0 | |
| | 100% | 89.5 | 87.5 | 87.5 | |
| Power Factor | 25% | | | | |
| | 50% | 0.50 | 0.57 | 0.53 | |
| | 75% | 0.63 | 0.70 | 0.66 | |
| | 100% | 0.70 | 0.75 | 0.73 | |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | |
| Losses (%) | P1 (0,9;1,0) | 11.0 | 13.4 | 13.4 | 13.4 |
| | P2 (0,5;1,0) | 8.6 | 10.5 | 10.5 | 10.5 |
| | P3 (0,25;1,0) | 8.0 | 9.7 | 9.7 | 9.7 |
| | P4 (0,9;0,5) | 6.6 | 8.0 | 8.0 | 8.0 |
| | P5 (0,5;0,5) | 4.3 | 5.3 | 5.3 | 5.3 |
| | P6 (0,5;0,25) | 3.4 | 4.1 | 4.1 | 4.1 |
| | P7 (0,25;0,25) | 2.4 | 3.0 | 3.0 | 3.0 |
| Bearing type | : Drive end : 6308 ZZ Non drive end : 6207 ZZ | Foundation loads | | | |
| Sealing | : V'Ring V'Ring | Max. traction | : 68 kgf | | |
| Lubrication interval | : - - | Max. compression | : 139 kgf | | |
| Lubricant amount | : - - | | | | |
| Lubricant type | : 00088 | | | | |
| 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. | | 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 | | | | | |
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Notes
USABLE @208V 9.76A SF 1.15 SFA 11.2A

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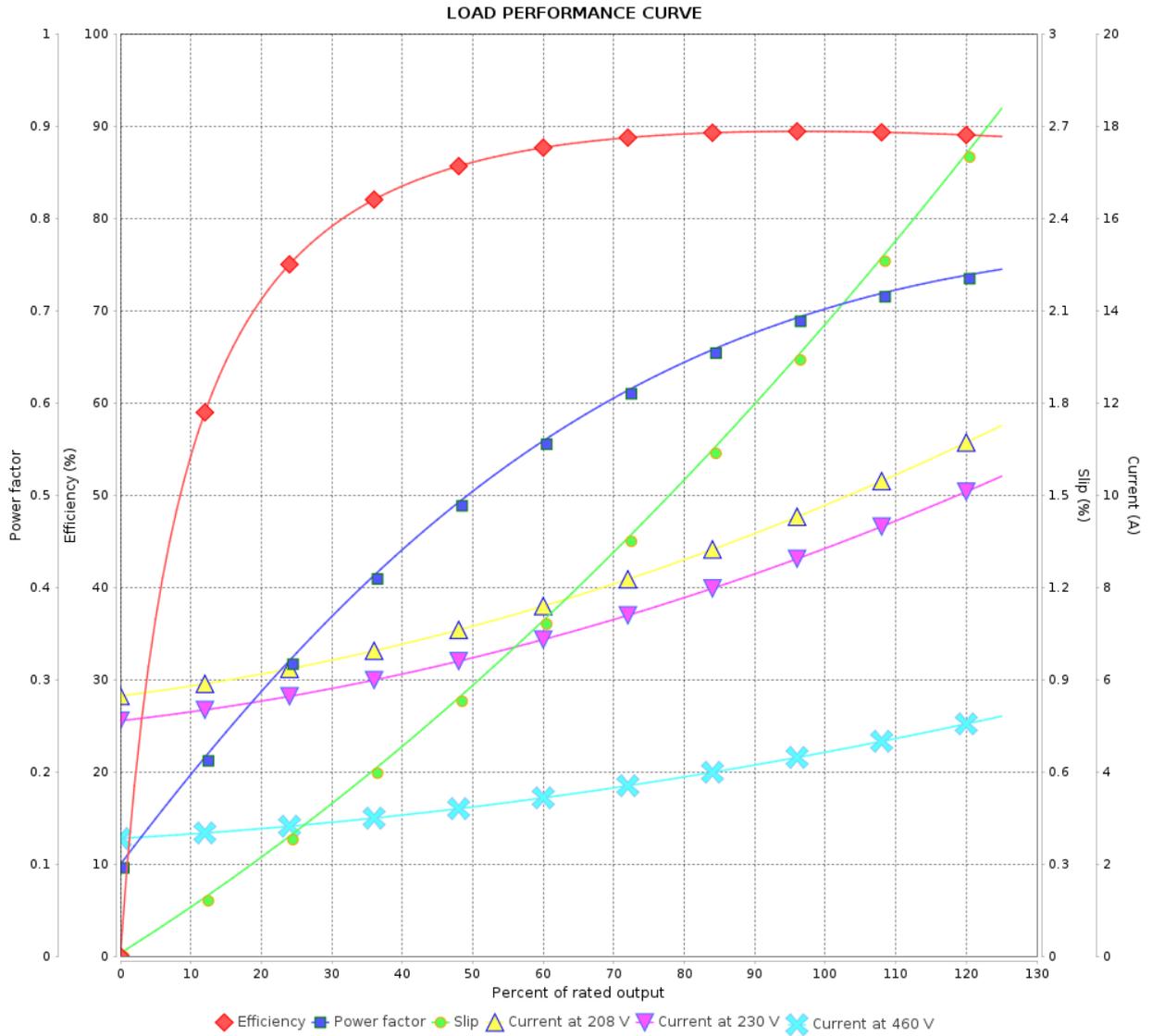
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Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717206



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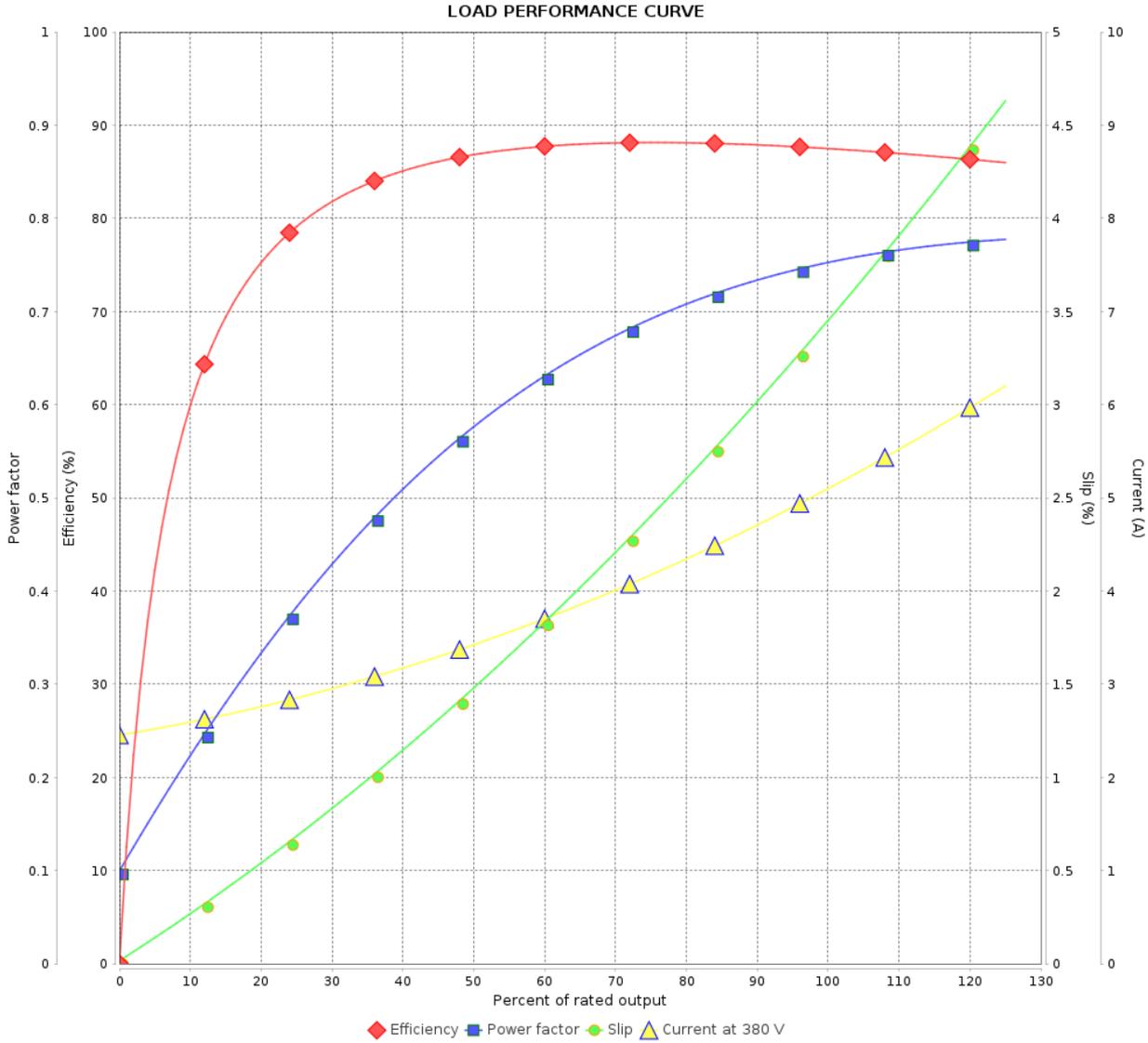
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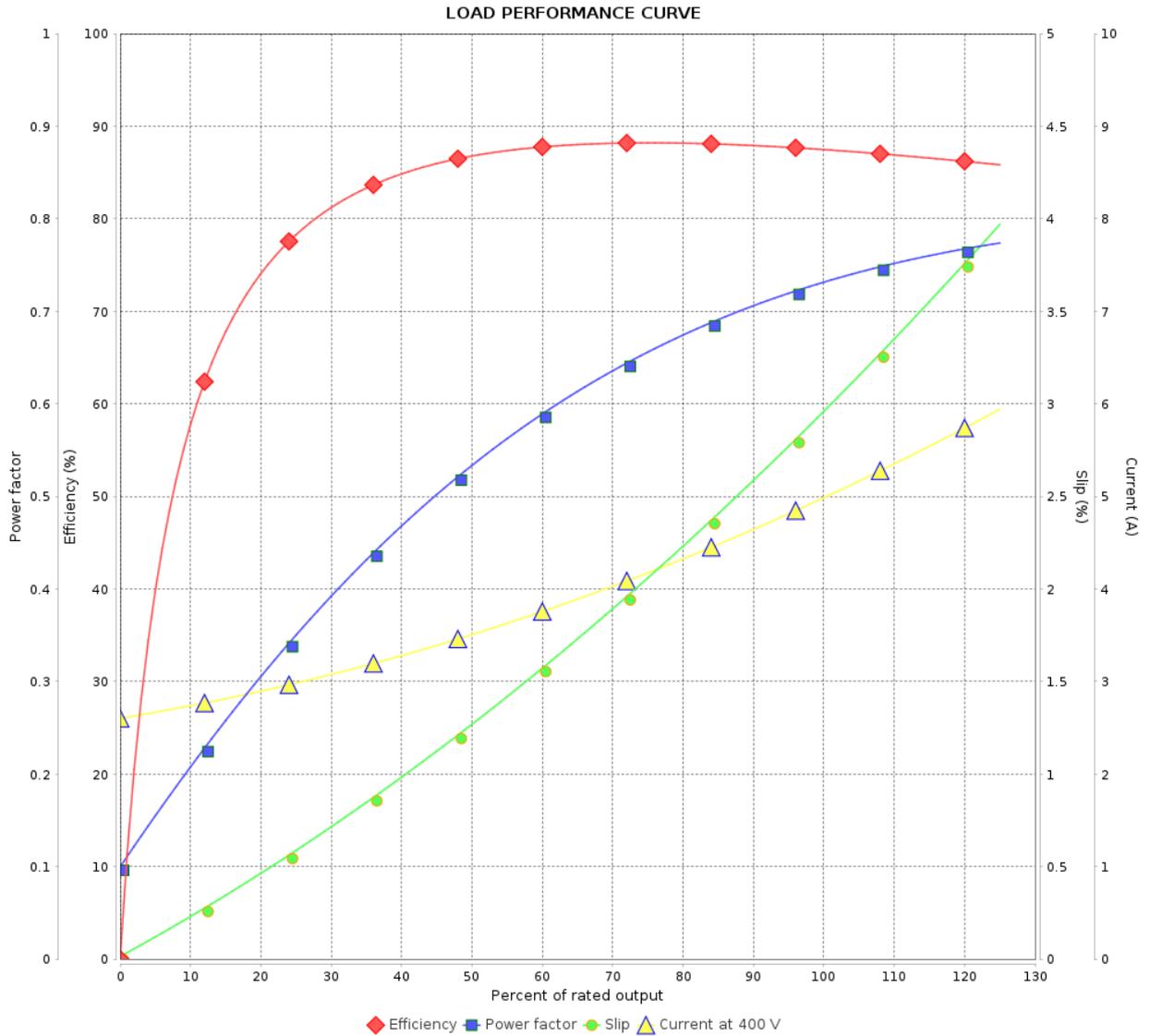
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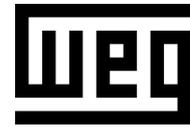
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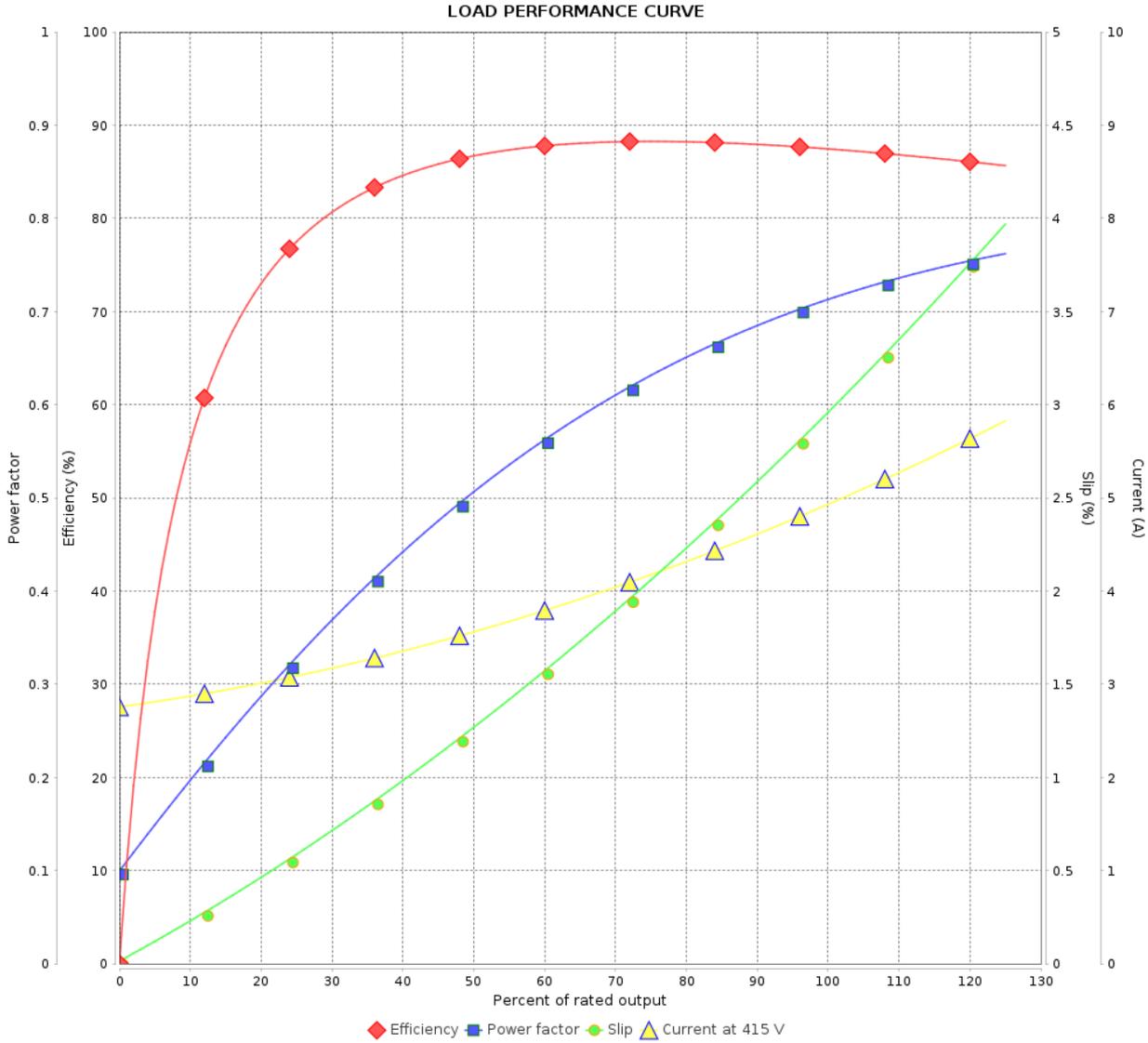
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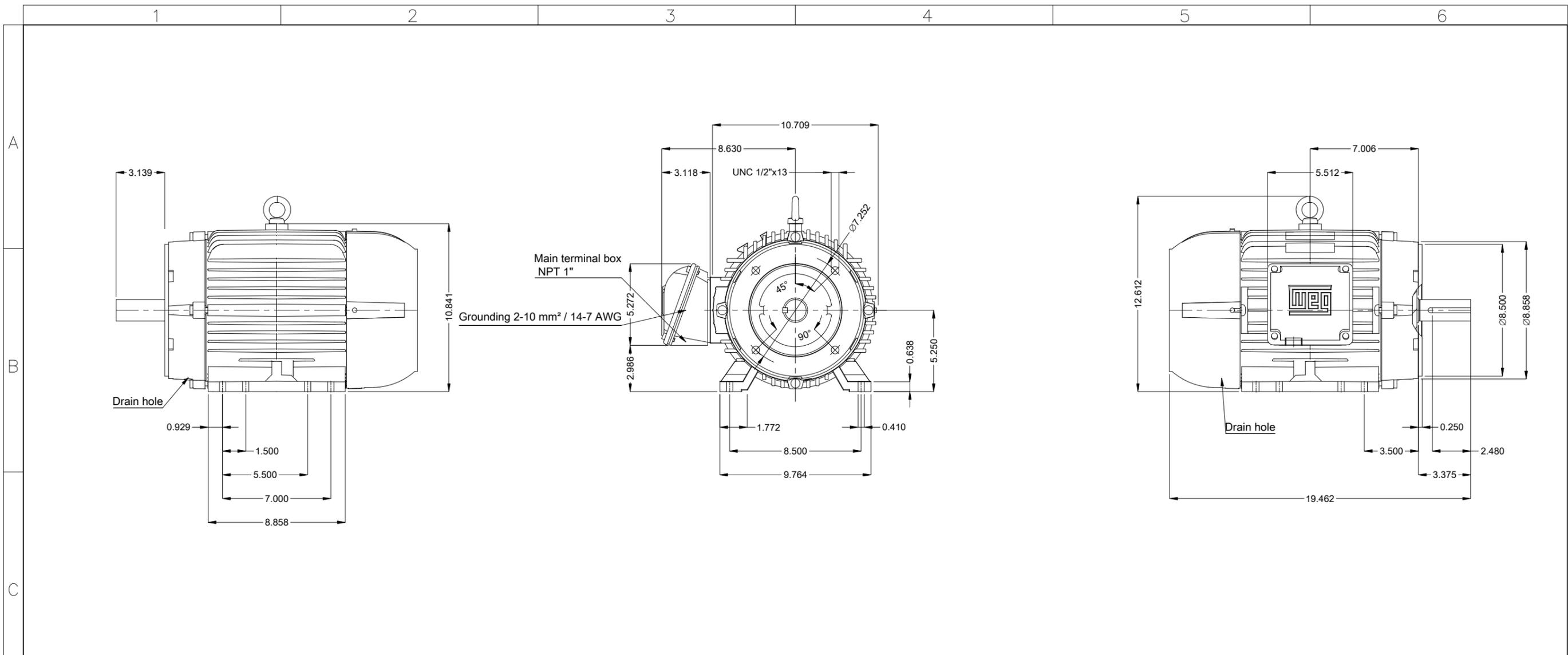
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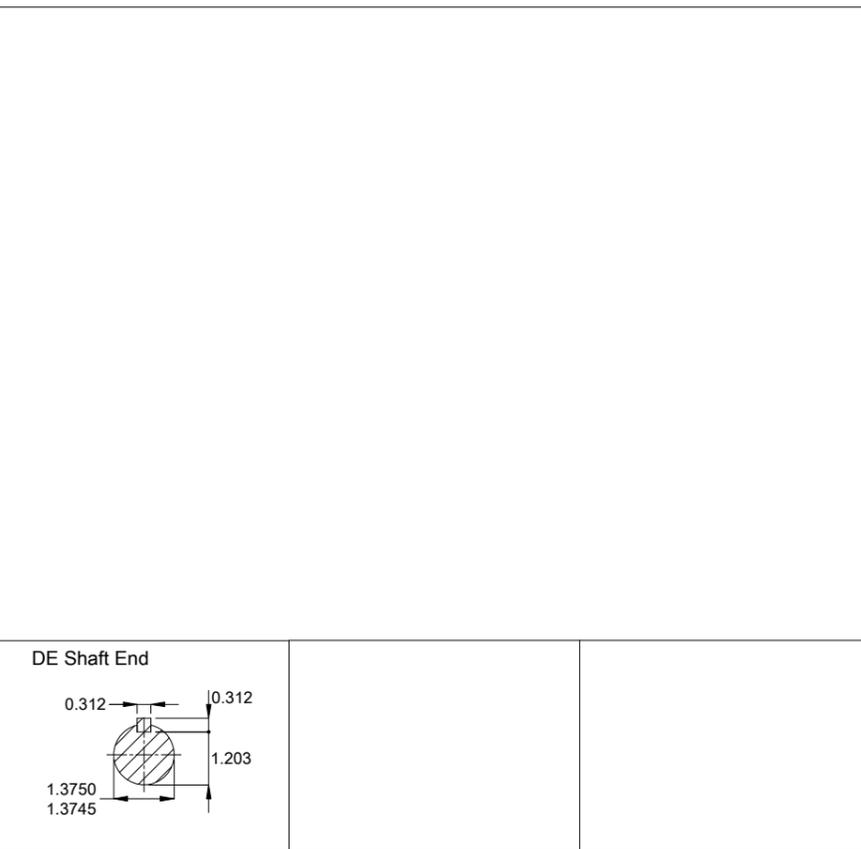
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|--------------------|
| Color RAL 5009 |
| Painting plan 207A |
| Mounting NEMA F-1 |
| Mounting B34D |



| | | | | | | | | | | | |
|---------------------|------------|-------------------------------------|--|--|--|--|-------------|---------|----------|------|-----|
| 3 HP 06 Poles 60 Hz | | | | | | | | | | A | |
| Scale 2 : 13 | | | | | | | | | | | |
| HYBRISUSER | | | | | | | | | | 00 | |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | | | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER | THREE PH. MOTOR W22 NEMA PREM. EFF. | | | | | PREVIEW | | WDD 00 | | |
| CHECKED | | FRAME 213/5TC IP55 TEFC | | | | | SHEET 1 / 1 | | | | |
| RELEASED | | | | | | | | | | | |
| REL. DATE | | | | | | | | | | | |