

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | | | | |
|--|--|-----------------------------|---------------------------|--|-------------------------|-------------------------|-----------------------|------|
| Customer : | | | | | | | | |
| Product line | : W22 NEMA Premium Efficiency Three-Phase | Product code : | 11441988 | | | | | |
| 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 | : 79.6 kg | | | | | |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0636 kgm ² | | | | | |
| Design | : B | | | | | | | |
| Output [HP] | 10 | 7.5 | 7.5 | 7.5 | 10 | 10 | 10 | |
| Poles | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Frequency [Hz] | 60 | 50 | 50 | 50 | 50 | 50 | 50 | |
| Rated voltage [V] | 230/460 | 380 | 400 | 415 | 380 | 400 | 415 | |
| Rated current [A] | 25.3/12.7 | 11.5 | 11.4 | 11.3 | 15.2 | 14.4 | 14.1 | |
| L. R. Amperes [A] | 162/81.1 | 86.2 | 91.5 | 96.1 | 90.9 | 93.6 | 98.8 | |
| LRC [A] | 6.4x(Code H) | 7.5x(Code J) | 8.0x(Code K) | 8.5x(Code L) | 6.0x(Code G) | 6.5x(Code H) | 7.0x(Code H) | |
| No load current [A] | 11.6/5.80 | 5.60 | 6.00 | 6.35 | 5.60 | 6.00 | 6.35 | |
| Rated speed [RPM] | 1765 | 1470 | 1475 | 1475 | 1450 | 1455 | 1460 | |
| Slip [%] | 1.94 | 2.00 | 1.67 | 1.67 | 3.33 | 3.00 | 2.67 | |
| Rated torque [kgfm] | 4.11 | 3.70 | 3.69 | 3.69 | 5.01 | 4.99 | 4.97 | |
| Locked rotor torque [%] | 240 | 200 | 240 | 260 | 165 | 180 | 190 | |
| Breakdown torque [%] | 295 | 300 | 340 | 360 | 220 | 250 | 270 | |
| Service factor | 1.25 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | |
| Temperature rise | 80 K | 80 K | 80 K | 80 K | 80 K | 80 K | 80 K | |
| Locked rotor time | 30s (cold) 17s (hot) | 25s (cold) 14s (hot) | 25s (cold) 14s (hot) | 25s (cold) 14s (hot) | 25s (cold) 14s (hot) | 25s (cold) 14s (hot) | 0s (cold) 0s (hot) | |
| Noise level ² | 58.0 dB(A) | 56.0 dB(A) | 56.0 dB(A) | 56.0 dB(A) | 56.0 dB(A) | 56.0 dB(A) | 56.0 dB(A) | |
| Efficiency (%) | 25% | | | | | | | |
| | 50% | 91.0 | 90.0 | 89.2 | 88.7 | 88.0 | 90.3 | |
| | 75% | 91.7 | 90.0 | 89.9 | 89.8 | 88.5 | 90.2 | |
| | 100% | 91.7 | 89.8 | 90.1 | 90.3 | 88.5 | 89.5 | |
| Power Factor | 25% | | | | | | | |
| | 50% | 0.65 | 0.61 | 0.57 | 0.53 | 0.72 | 0.68 | |
| | 75% | 0.76 | 0.74 | 0.70 | 0.67 | 0.81 | 0.79 | |
| | 100% | 0.81 | 0.81 | 0.77 | 0.75 | 0.85 | 0.84 | |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | | | |
| Losses (%) | P1 (0,9;1,0) | 8.8 | 11.0 | 10.7 | 10.4 | 12.6 | 11.4 | 10.5 |
| | P2 (0,5;1,0) | 7.3 | 9.2 | 8.9 | 8.7 | 10.5 | 9.5 | 8.8 |
| | P3 (0,25;1,0) | 7.1 | 8.9 | 8.6 | 8.4 | 10.2 | 9.2 | 8.5 |
| | P4 (0,9;0,5) | 4.6 | 5.7 | 5.6 | 5.4 | 6.6 | 5.9 | 5.5 |
| | P5 (0,5;0,5) | 3.2 | 4.0 | 3.8 | 3.8 | 4.5 | 4.1 | 3.8 |
| | P6 (0,5;0,25) | 2.2 | 2.8 | 2.7 | 2.6 | 3.2 | 2.9 | 2.7 |
| | P7 (0,25;0,25) | 1.5 | 1.9 | 1.9 | 1.8 | 2.2 | 2.0 | 1.9 |
| Bearing type | : Drive end : 6308 ZZ | Non drive end : 6207 ZZ | Foundation loads | | | | | |
| Sealing | : V'Ring | V'Ring | Max. traction | : 208 kgf | | | | |
| Lubrication interval | : - | - | Max. compression | : 288 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. | | | | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. | | | | |
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Notes
USABLE @208V 27.4A SF 1.15 SFA 31.5A

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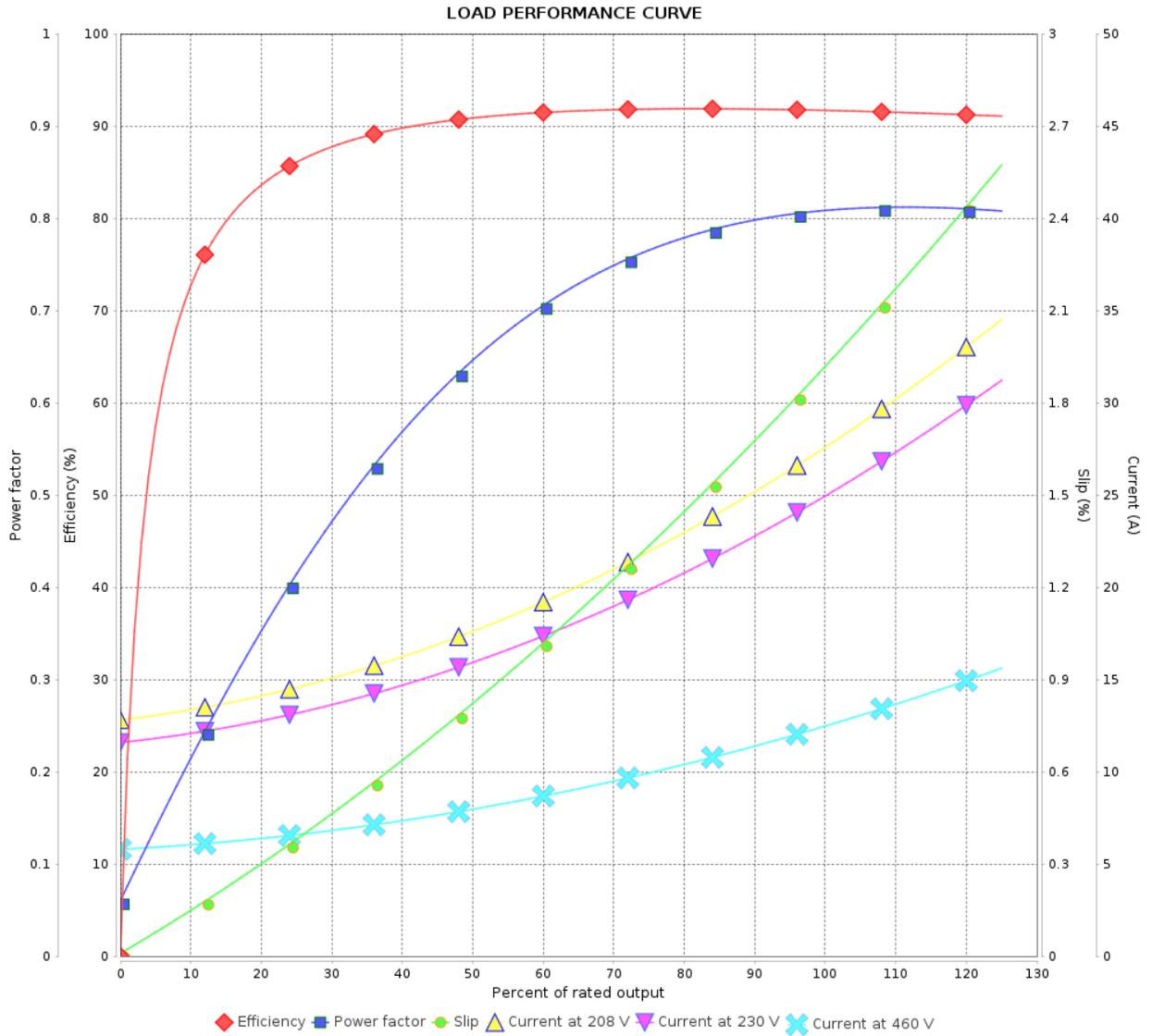
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Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441988



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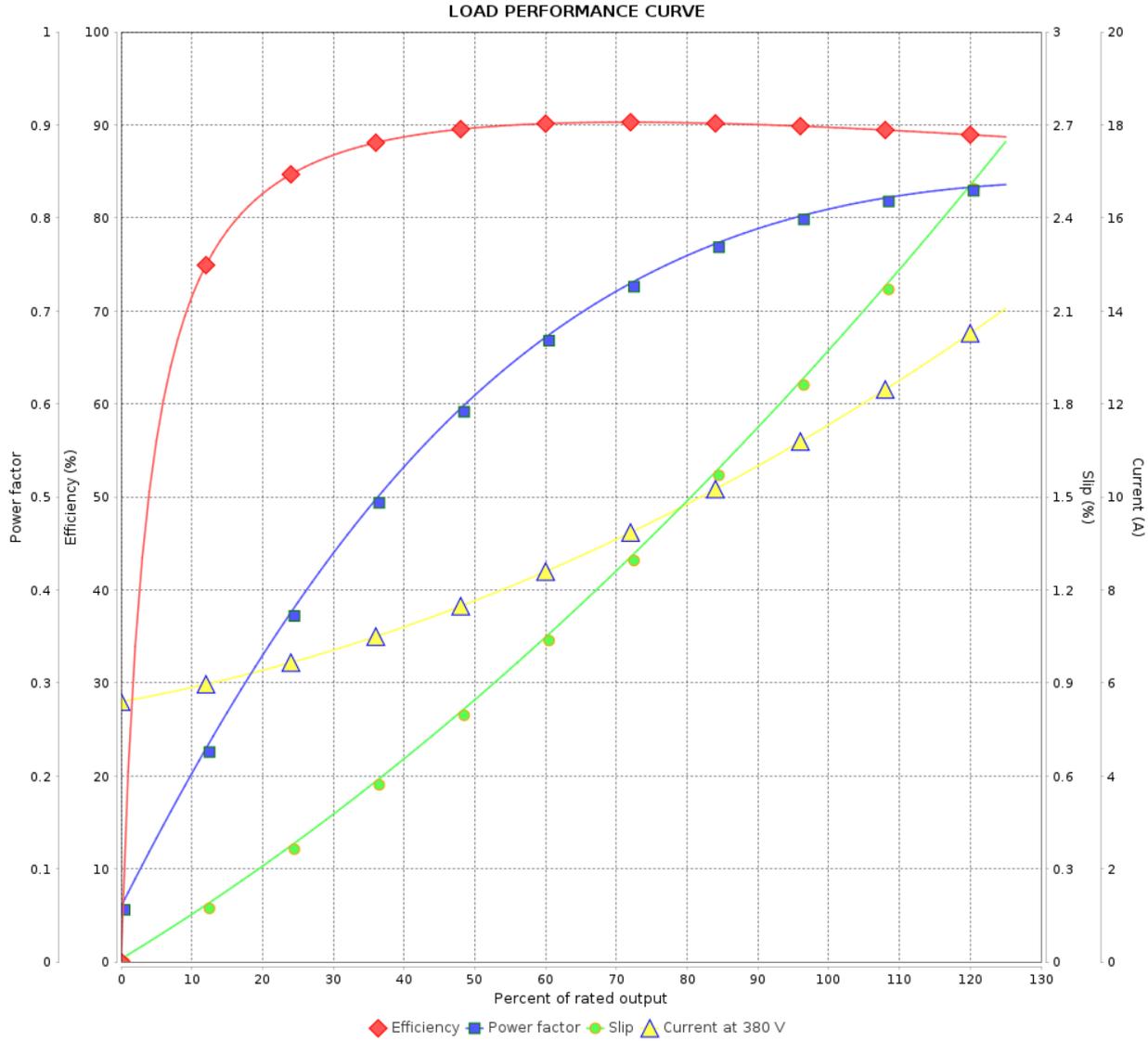
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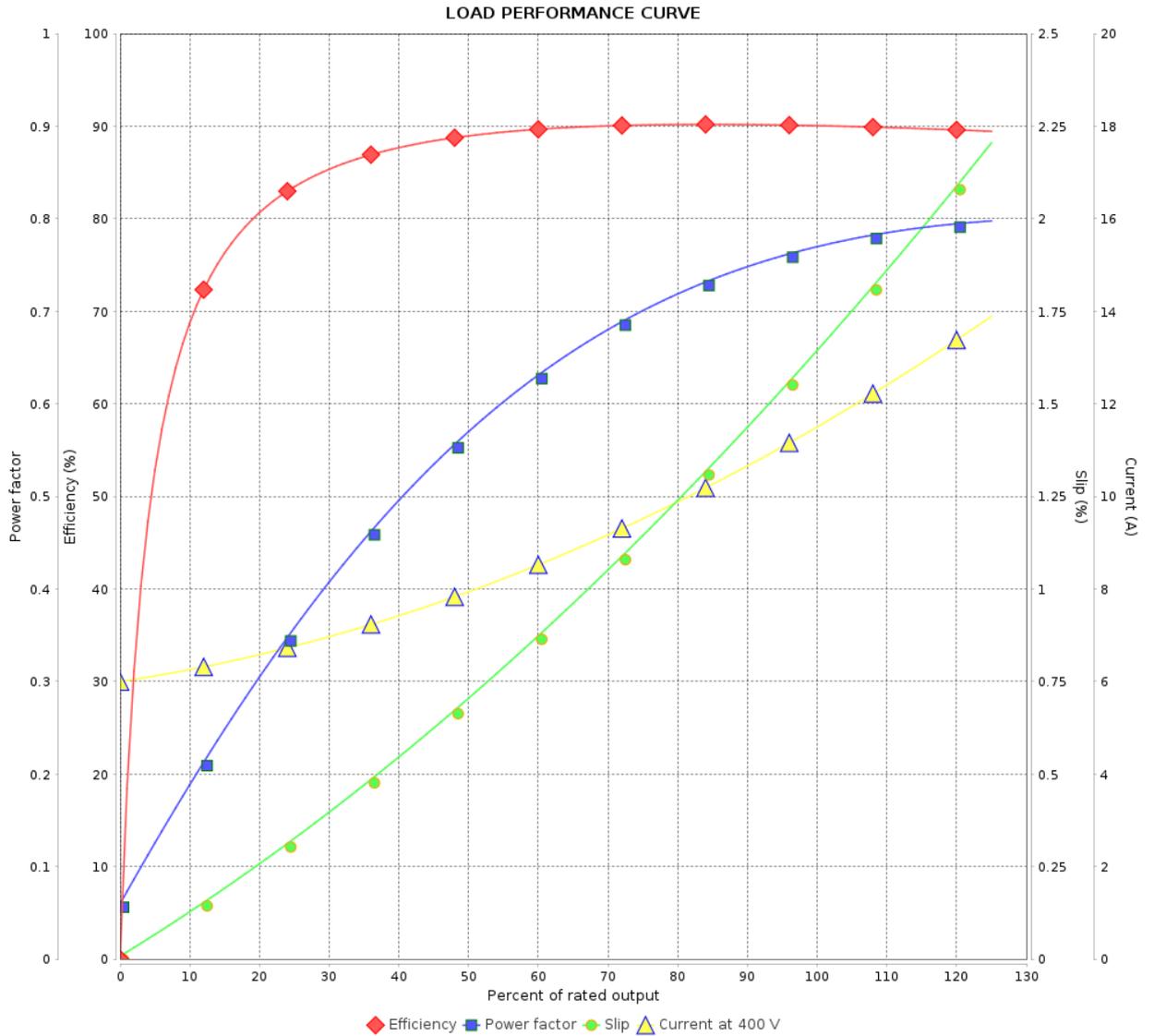
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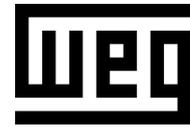
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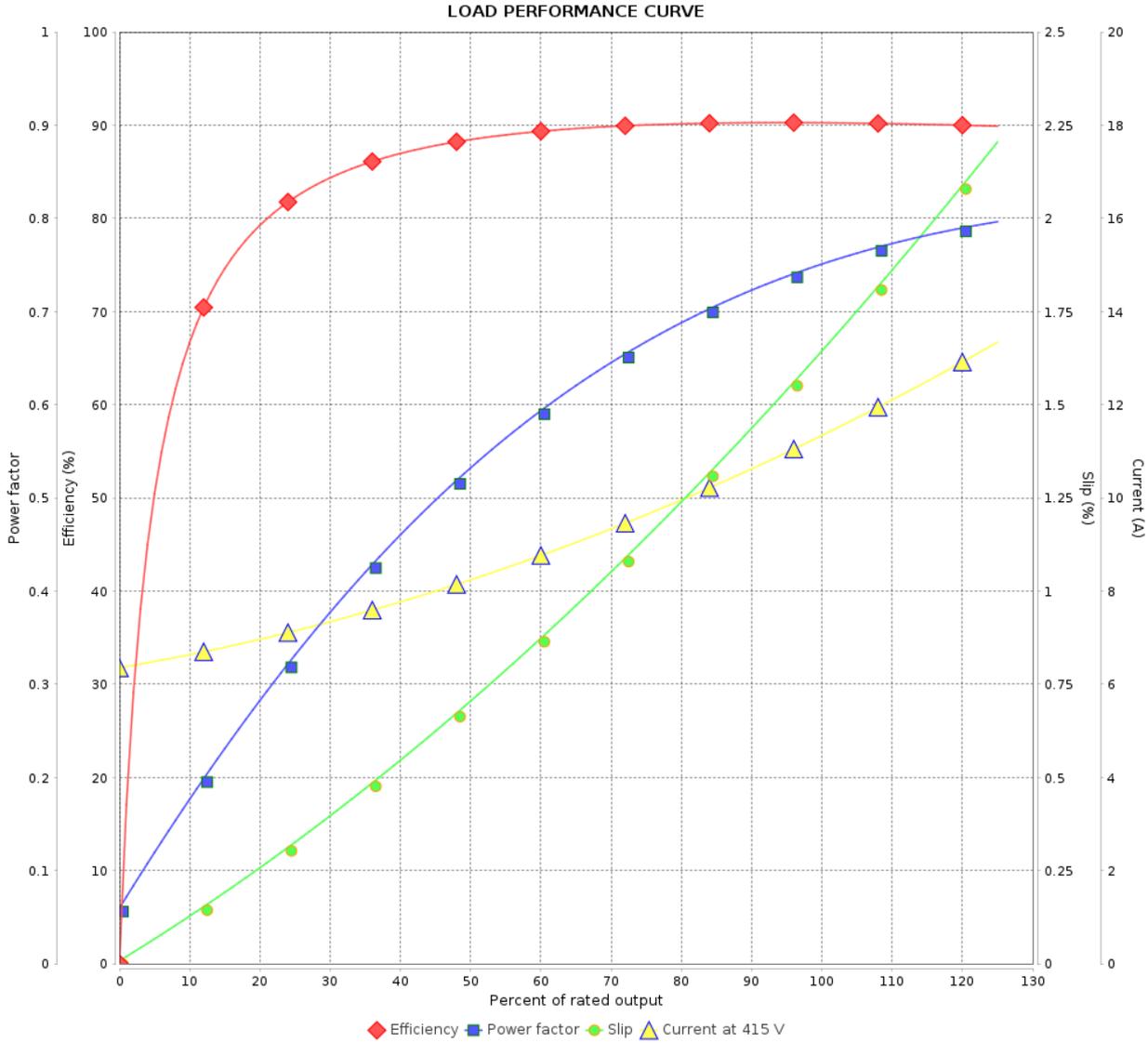
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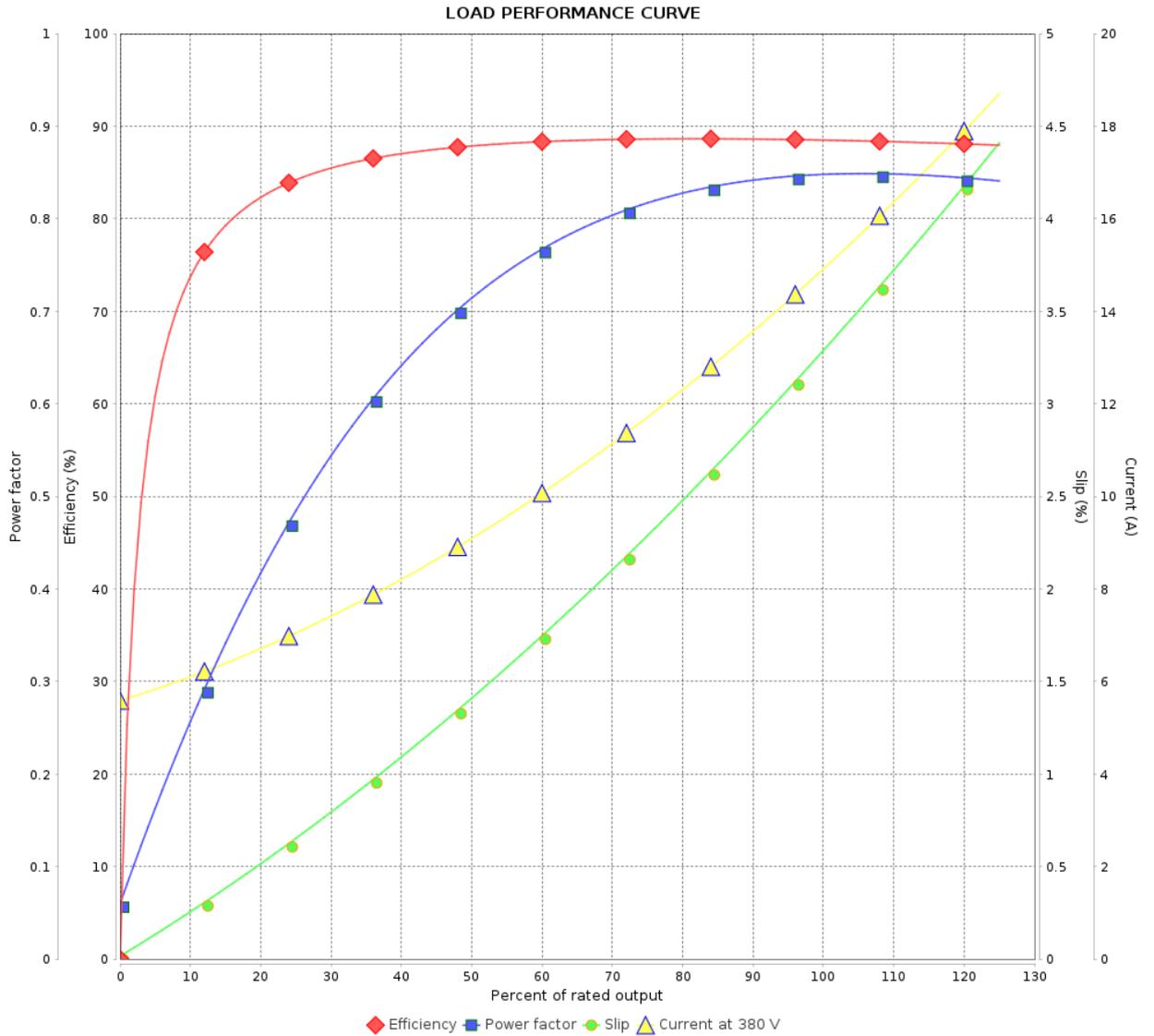
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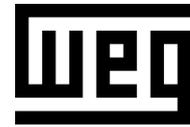
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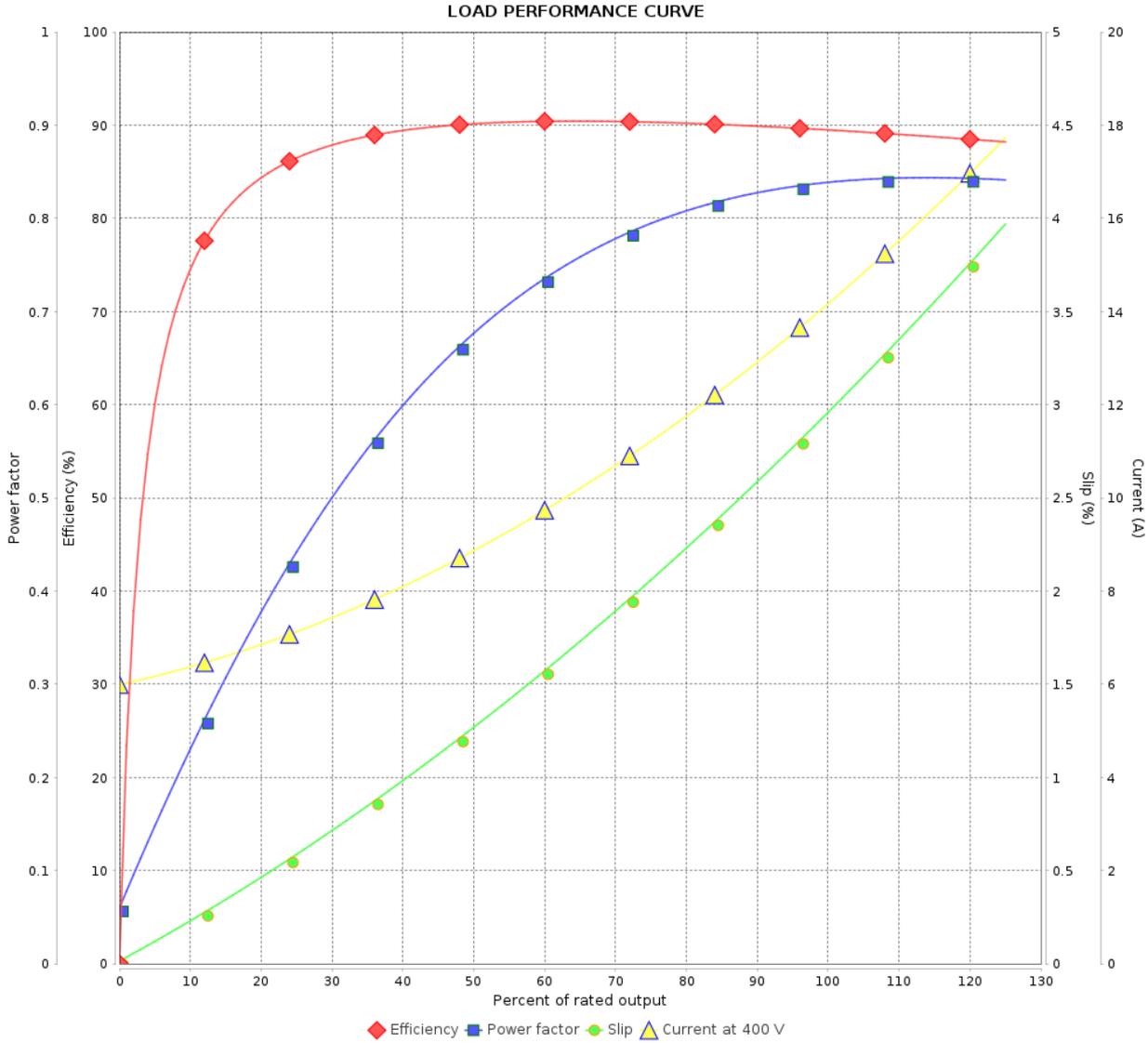
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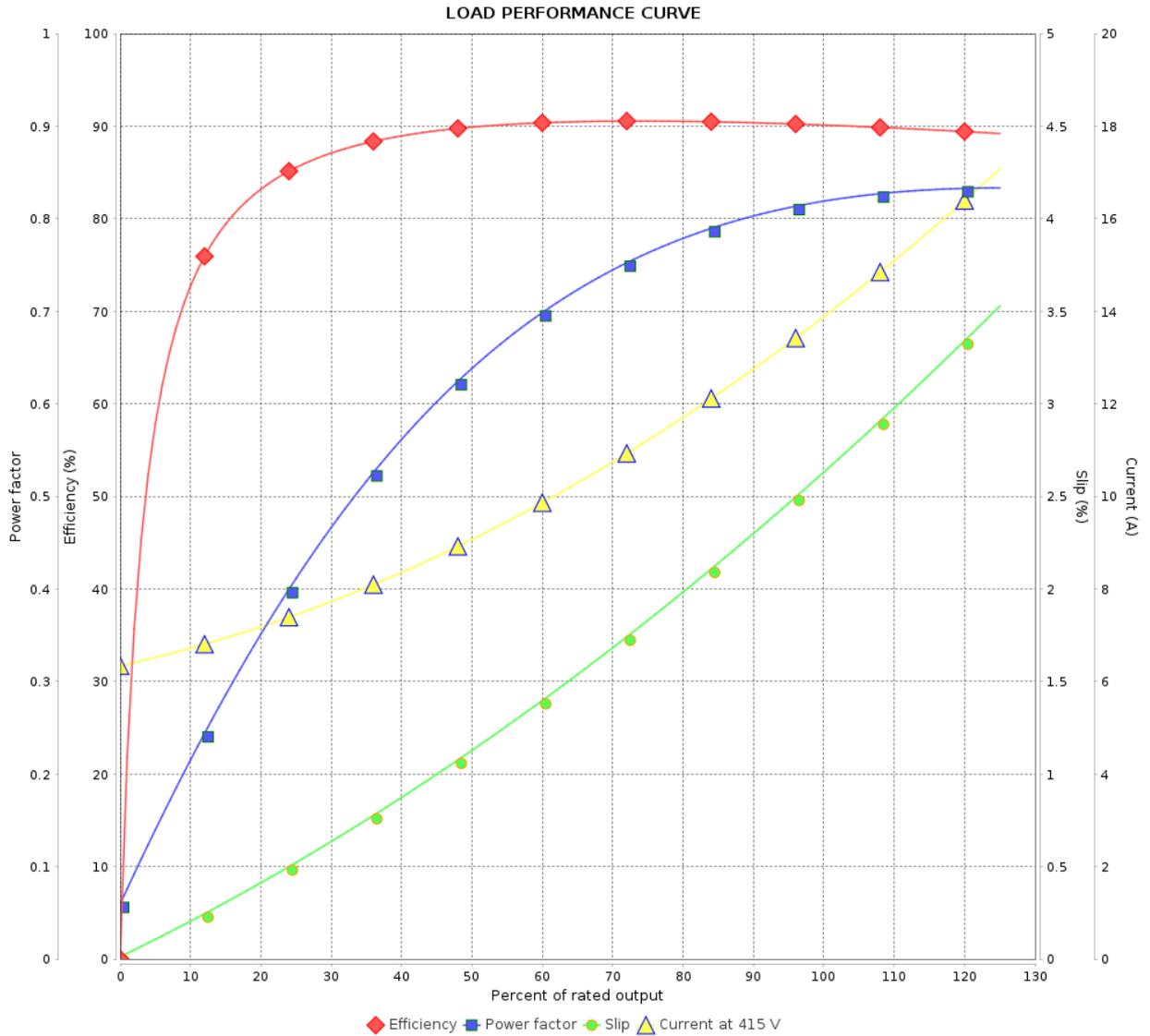
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