DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

| Product line | : W22 Phase | NEMA Pre | mium Efficien | icy Thre | e- I | Product | code : | 13201 | 563 | |
|--|---|--|---------------|---------------|--|----------|----------------------|--|--------------|------------------------------|
| Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design | | : 447/9T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B | | | Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J) | | | : IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 1305 kg : 3.77 kgm ² | | |
| Output [HP] | | | 300 | | 250 | | 25 | 0 | | 250 |
| Poles | | 4 | | 4 | | | 4 | | 4 | |
| Frequency [Hz] | | 60 | | 50 | | | 50 | | 50 | |
| Rated voltage [V] | | 460 | | 380 | | | 400 | | 415 | |
| Rated current [A] | | 330 | | 337 | | | 320 | | 311 | |
| L. R. Amperes [A] | | 2145 | | 2056 | | | 2144 | | 2239 | |
| .RC [A] | | 6.5x(Code G) | | 6.1x(Code F) | |) | 6.7x(Code G) | | 7.2x(Code H) | |
| No load current [A] | | 105 | | 104 | | | 111 | | 116 | |
| Rated speed [RPM] | | 1780 | | 1480 | | | 1480 | | 1485 | |
| Slip [%] | | 1.11 | | 1.33 | | | 1.33 | | 1.00 | |
| Rated torque [kgfm] | | 122 | | 123 | | | 123 | | 122 | |
| Locked rotor torque [%] | | 250 | | 210 | | | 240 | | 260 | |
| Breakdown torque [%] | | 250 | | 220 | | | 250 | | 270 | |
| Service factor | | 1.15 | | 1.00 | | | 1.00 | | 1.00 | |
| Temperature rise | | 80 K | | 40.5 | 105 K | | 105 K | | 105 K | |
| Locked rotor time | | 28s (cold) 16s (hot) | | | 18s (cold) 10s (hot) | | 18s (cold) 10s (hot) | | | cold) 10s (hot) |
| Noise level ² | 0.5% | 75.0 |) dB(A) | 7 | 1.0 dB(A) | | 71.0 d | B(A) | 7 | ′1.0 dB(A) |
| Efficiency (%) | 25% | | | | | | 05.0 | | | 05.4 |
| | 50% | 95.8 | | 95.8 | | | 95.8 | | | 95.4 |
| | 75% | | 96.2 | | 95.8 | | 96.2 | | | 95.8 |
| | 100% 25% | 5 | 96.2 | | 96.0 | | 96.0 | | | 96.2 |
| Power Factor | 25% 50% | 0.77 | | 0.78 | | | 0.75 | | | 0.73 |
| | 50% 75% | 0.77 | | 0.78 | | | 0.75 | | | 0.73 |
| | 100% | 0.87 | | 0.87 | | | 0.87 | | | 0.86 |
| | | | | | | | | | | 0.00 |
| Losses at normati | | | | n percer | | - | out power | | | |
| | | P1 (0,9;1,0) | | 4.5 3.3 | | .8 | 4.8 | | 4.5 | |
| | | P2 (0,5;1,0) | | | 3.5 | | 3.5 | | | 3.3 |
| | | P3 (0,25;1,0) | | | 3.0 | | 3.0 | | | 2.7 |
| Losses (%) | | P4 (0,9;0,5) | | | 2.7 | | 2.7 | | 2.5 | |
| | P5 (0, | | 1.5 | | 1.6 | | 1.6 | | 1.5 | |
| | | ,5;0,25) 1.1 | | | 1.1 | | | 1.1 | | 1.1 |
| | P7 (0,2 | 5;0,25) 0.6 | | | 0.6 | | | 0.6 0.6 | | 0.6 |
| | Drive end Non drive end NU-322 C3 6319 C3 | | | Max. traction | | | : 2233 kgf | | | |
| Bearing type Sealing | | | | | | | | | | |
| | | | | /Seal | Max. con | npressio | n | : 3538 | kgf | |
| Lubrication interval | | : 4000 h 8000 h | | | | | | | | |
| Lubricant amount | | : 60 g 45 g : Mobil Polyrex EM | | | | | | | | |
| Lubricant type | | . IVI | | | | | | | | |
| This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro | d. otor from the m and with to veight subjec | shaft end. plerance of | f +3dB(A). | hich | | | | | | n sinusoidal ated in NEMA |
| | | | | , | Performed | | ormed | Checked | | Date |
| Rev. | | Changes Summary | | | | renonnea | | | | Dale |
| Performed by | | | | | | | | | | |
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| | | | | | | | | Page | | Revision |
| Date | 13/01/2024 | | | | | | 1 | 1/6 | | |

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Notes

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|--------------|------------|-----------------|-----------|---------|----------|
| Rev. | | Changes Summary | Performed | Checked | Date |
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| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 13/01/2024 | - | | 2/6 | |

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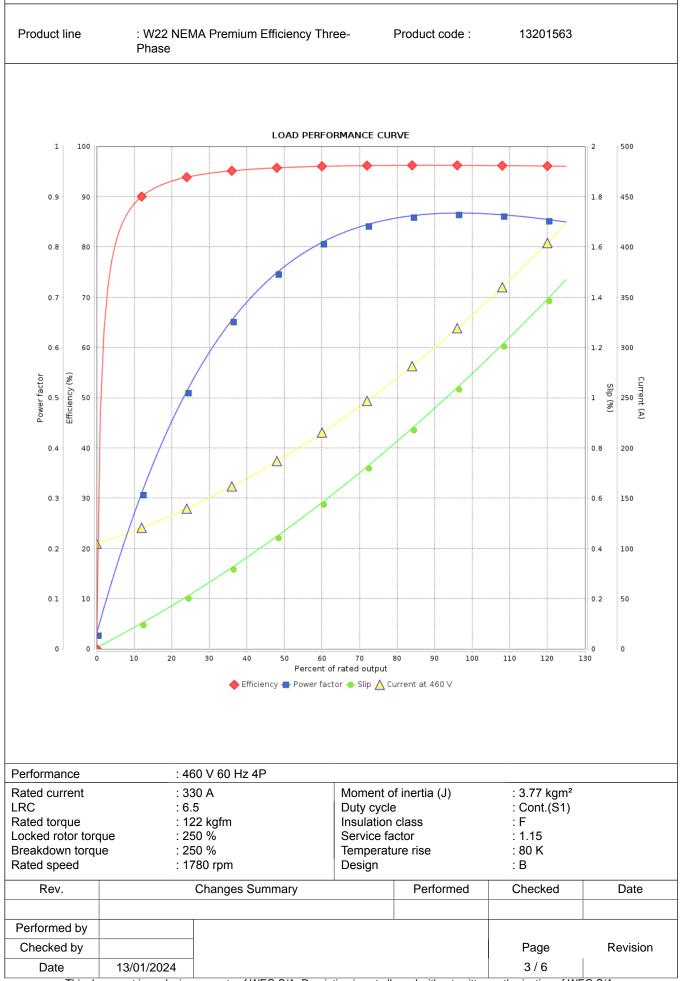


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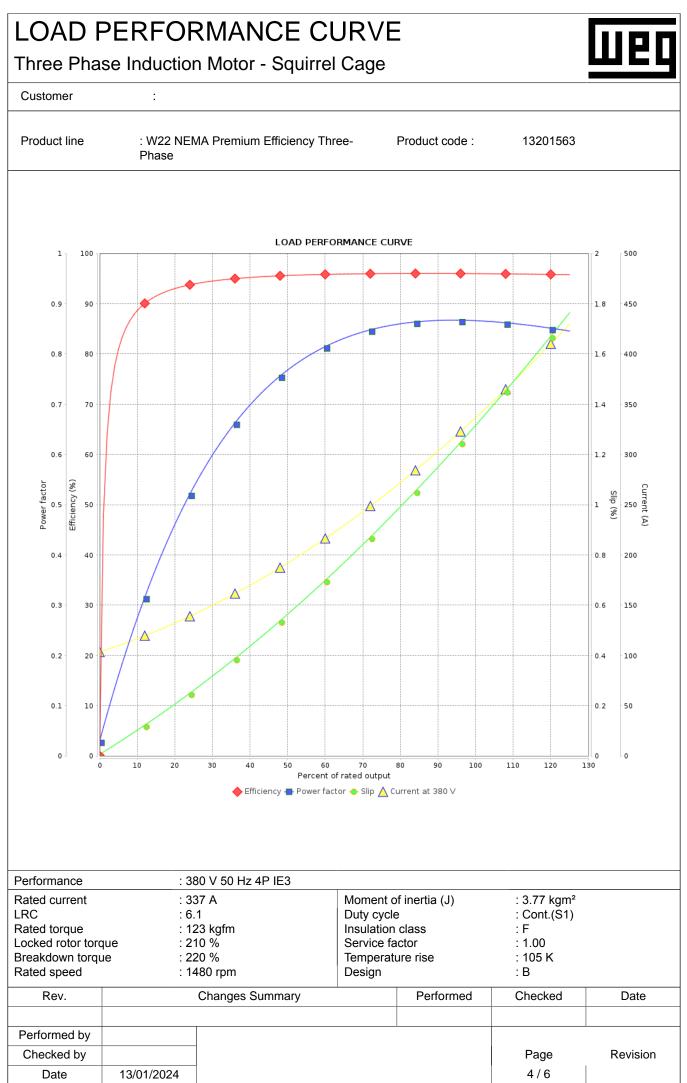


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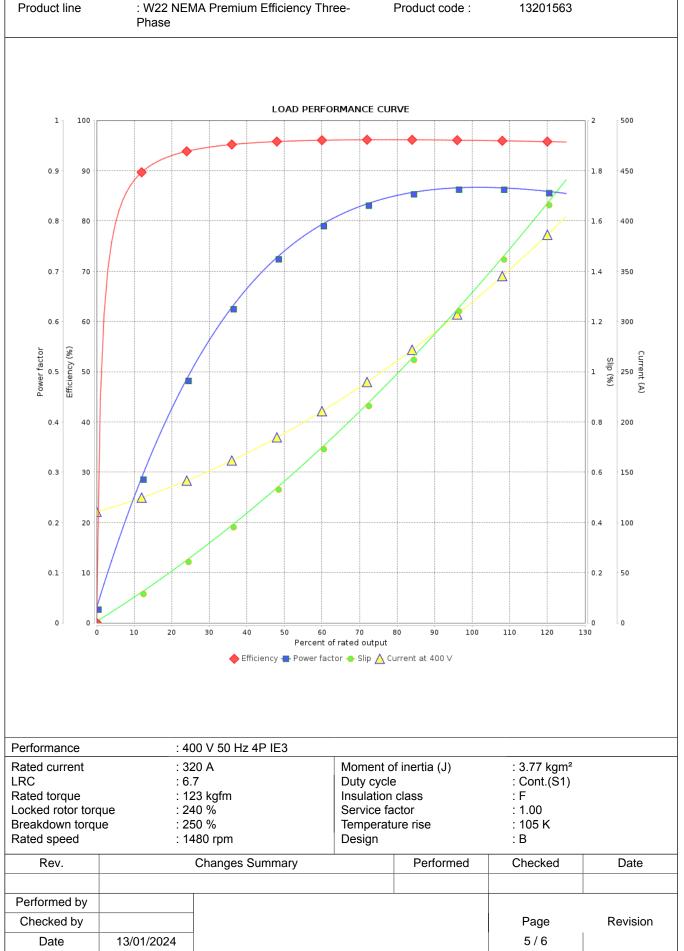


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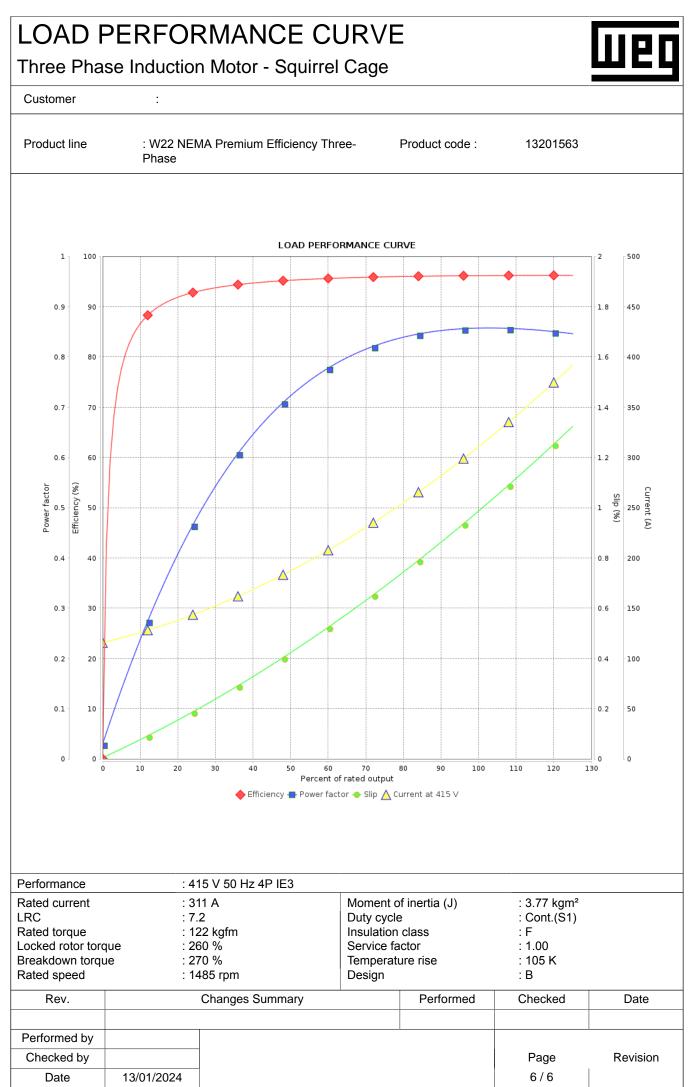


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