DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:

Customer

| Product line | : W | V22 Tru-Metric IE3 | Three-Phase | | Product code : | 12604517 | | |
|---|--------------------|----------------------|---|----------------|--|----------------------|--------------|--|
| Frame | | : 90L | | Cooling method | | : IC411 - TEFC | | |
| Insulation class | | : F | | | g | : B3L(E) | | |
| Duty cycle | | : S1 | | Rotatior | | : Both (CW and CCW) | | |
| Ambient temperature | | | : -20°C to +40°C | | method | : Direct On Line | | |
| Altitude | | | : 1000 m.a.s.l. | | weight ³ | : 23.8 kg | | |
| Protection degree | Э | | : IP55 | | t of inertia (J) | : 0.0066 kgm² | | |
| Design | | : N | | | | | | |
| Output [HP] | | | 2 | | 2 | 2 | | |
| Poles | | | <u>4</u> 50 | | <u>4</u> 50 | | 4 60 | |
| Frequency [Hz] Rated voltage [V] | | | 380 | | 415 | 230/460 | | |
| Rated current [A] | | | 3.22 | | 3.17 | 5.66/2.83 | | |
| L. R. Amperes [A] | | | 20.9 | | 23.8 | 47.0/23.5 | | |
| LRC [A] | | | 6.5 | | 7.5 | 8.3 | | |
| No load current [A | | | 1.55 | | 1.85 | 3. | 10/1.55 | |
| Rated speed [RPN | | | 1435 | | 1450 | 1755 | | |
| Slip [%] | - | | 4.33 | | 3.33 | 2.50 | | |
| Rated torque [kgfn | | 1 | 1.01 | | 1.00 | 0.827 | | |
| ocked rotor torqu | e [%] | | 229 | | 280 | 300 | | |
| Breakdown torque | [%] | | 250 | | 300 | 350 | | |
| Service factor | | | 1.25 | | 1.25 | 1.25 | | |
| Temperature rise | | | 80 K | | 80 K | 80 K | | |
| Locked rotor time | | | 25s (cold) 14s (hot) | | (cold) 12s (hot) | 25s (cold) 14s (hot) | | |
| Noise level ² | 0.50 | |) dB(A) | | 49.0 dB(A) | 49 | .0 dB(A) | |
| | 25% | | 5.0 | | 00.4 | | | |
| Efficiency (%) | 50% 75% | | 35.0 35.3 | | 83.1 85.0 | | 82.5 85.5 | |
| | 100% | | 35.3 35.3 | 85.0 | | 85.5 | | |
| | 25% | | | 00.0 | | | | |
| | 50% | |).63 | | 0.54 | | 0.55 | |
| Power Factor | 75% | |).75 | | 0.68 | | 0.68 | |
| 10 | | | 0.83 | | 0.77 | 0.77 | | |
| Losses at normati | ve opera | ating points (speed; | torque), in perce | entage of ra | ited output power | | | |
| | | P1 (0,9;1,0) | | 6.1 | 15.8 | | 14.6 | |
| | | P2 (0,5;1,0) | | | 13.0 | | 12.0 | |
| | | P3 (0,25;1,0) | | 3.4 | 13.1 | | 12.1 | |
| Losses (%) | | P4 (0,9;0,5) | | 9.4 | 9.2 | 8.5 | | |
| . , | | P5 (0,5;0,5) | | 5.6 | 6.4 | | 5.9 | |
| | | P6 (0,5;0,25) | 5 | 5.2 | .2 5.0 | | 4.7 | |
| | | P7 (0,25;0,25) | 3 | 3.8 | 3.7 | | 3.4 | |
| | | Drive end | Non drive end | I Foundat | on loads | | | |
| Bearing type | | : 6205 ZZ | | Max. traction | | : 70 kgf | | |
| Sealing | | : V'Ring | V'Ring V'Ring | | npression | : 94 kgf | : 94 kgf | |
| Lubrication interval | | : - | | | | | | |
| Lubricant amount Lubricant type | | : - Mobil | : : Mobil Polyrex EM | | | | | |
| | | | | | | | | |
| This revision repla | cancel the previou | is one, which | These are average values based on tests with sinusoidal | | | | | |
| must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). | | | | | power supply, subject to the tolerances stipulated in NEMA | | | |
| | | | | MG-1. | | | | |
| | | | | | | | | |
| (3) Approximate v manufacturing pro | | bject to changes af | lei | | | | | |
| (4) At 100% of ful | | | | | | | | |
| | | | nges Summary | | Performed | Checked | Date | |
| | | | | | | <u> </u> | 1 | |
| | | | | | | | 1 | |
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Customer

Notes

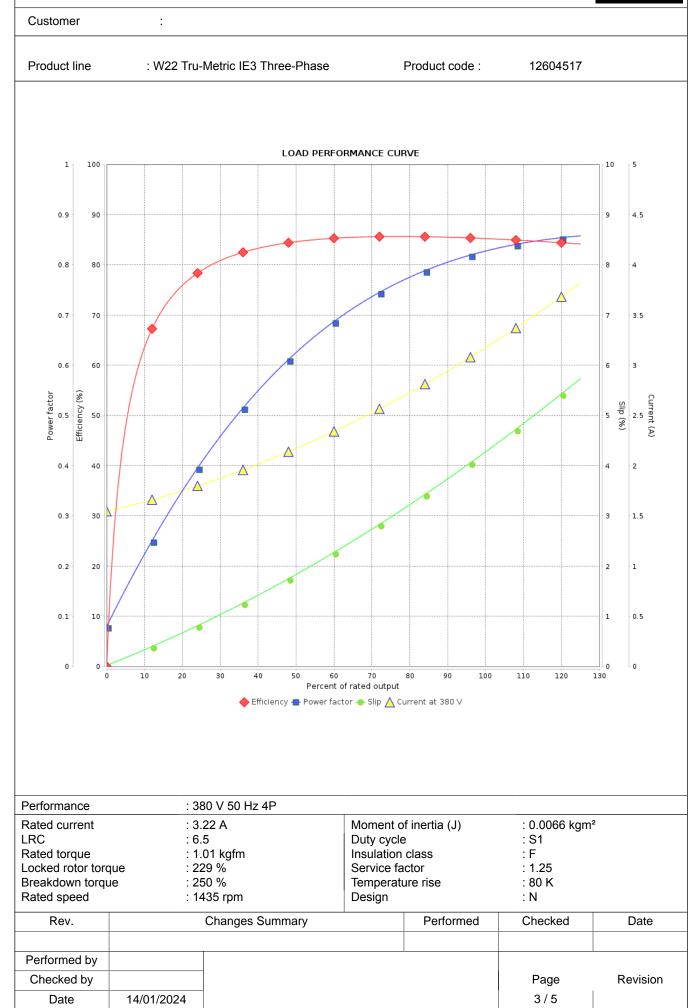
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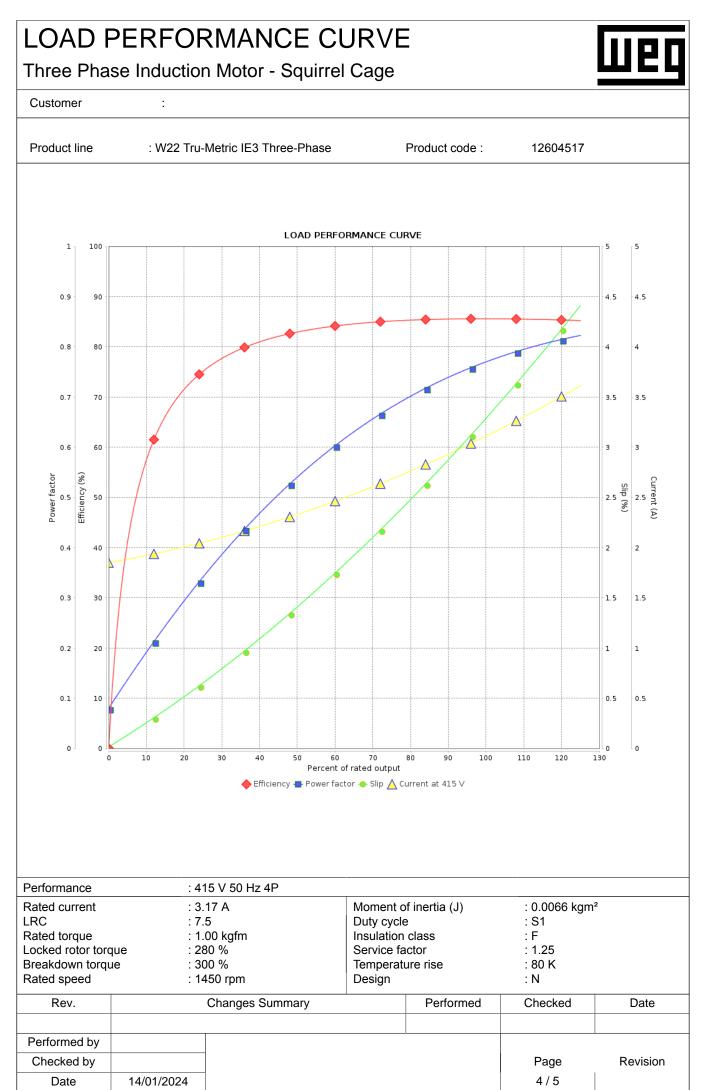


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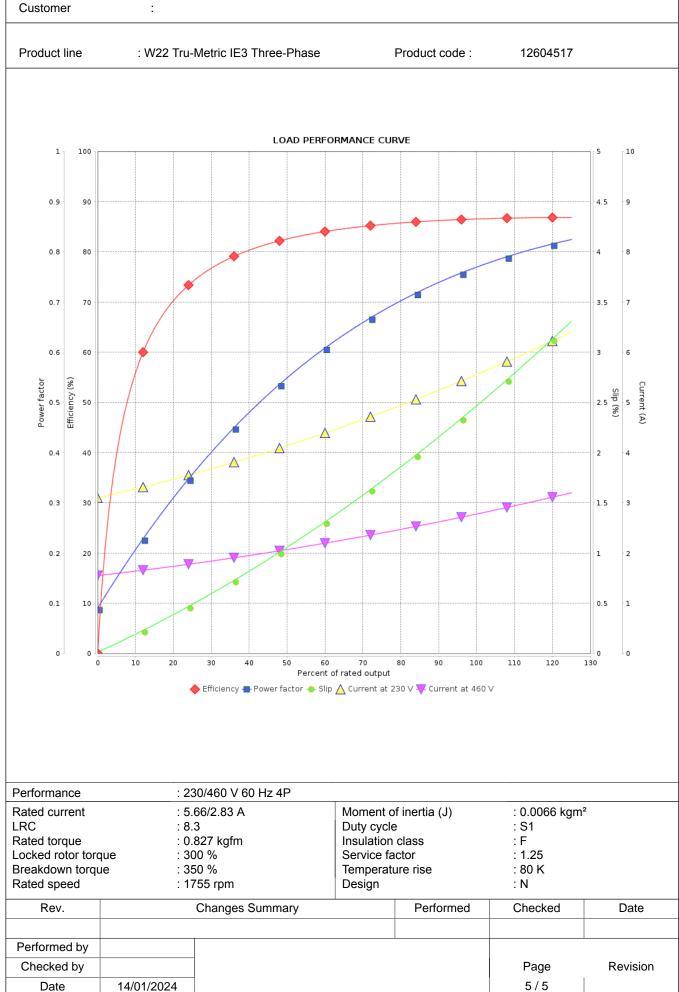


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