# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer :

Product line : W22 IEEE 841 - Nema Premium Efficiency
Product code : 13584923

| | |
|---|---|
| Frame | : 213/5T |
| Output | : 3 HP (2.2 kW) |
| Poles | : 6 |
| Frequency | : 60 Hz |
| Rated voltage | : 575 V |
| Rated current | : 3.53 A |
| L. R. Amperes | : 24.7 A |
| LRC | : 7.0 Code K |
| No load current | : 2.20 A |
| Rated speed | : 1175 rpm |
| Slip | : 2.08 % |
| Rated torque | : 1.85 kgfm |
| Locked rotor torque | : 200 % |
| Pull up torque | : 170 % |
| Breakdown torque | : 280 % |
| Insulation class | : F |
| Service factor | : 1.25 |
| Moment of inertia (J) | : 0.0504 kgm² |

| | |
|---|---|
| Locked rotor time | : 58 s (hot) 104 s (cold) |
| Temperature rise[4] | : 80 K |
| Duty cycle | : S1 |
| Ambient temperature | : -20 °C to +40 °C |
| Altitude | : 1000 m.a.s.l |
| Protection degree | : IP56 |
| Cooling method | : IC411 - TEFC |
| Mounting | : B3R(D) |
| Rotation[1] | : Both |
| Noise level[2] | : 55 dB(A) |
| Starting method | : Direct On Line |
| Approx. weight[3] | : 55.0 kg |
| Design | : B |

| Output | Start | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | - | 86.5 | 88.5 | 89.5 |
| Power Factor | 0.34 | 0.50 | 0.63 | 0.7 |

| | |
|---|---|
| Load type | : - |
| Load torque | : - |
| Load inertia (J=GD²/4) | : - |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6308-C3 | 6207-C3 |
| Lubrication interval | 20000 h | 20000 h |
| Lubricant amount | 11 g | 7 g |
| Lubricant type | MOBIL POLYREX EM | |

Foundation loads
Max. traction : 67 kgf
Max. compression : 122 kgf

Notes:

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|---|---|---|---|---|---|---|
| 11.02 | 8.48 | 7.70 | 6.74 | 4.38 | 3.44 | 2.45 |

Standards

| | | | |
|---|---|---|---|
| Specification | : MG1 - Part 10 | Vibration | : IEEE841 - 6.9 |
| Test | : MG1 - Part 12 | Tolerance | : MG1 - Part 12 |
| Noise | : MG1 - Part 9 | | |

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 +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

| Rev. | Changes Summary | Performed | Checked | Date |
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| Checked by | | | Page | Revision |
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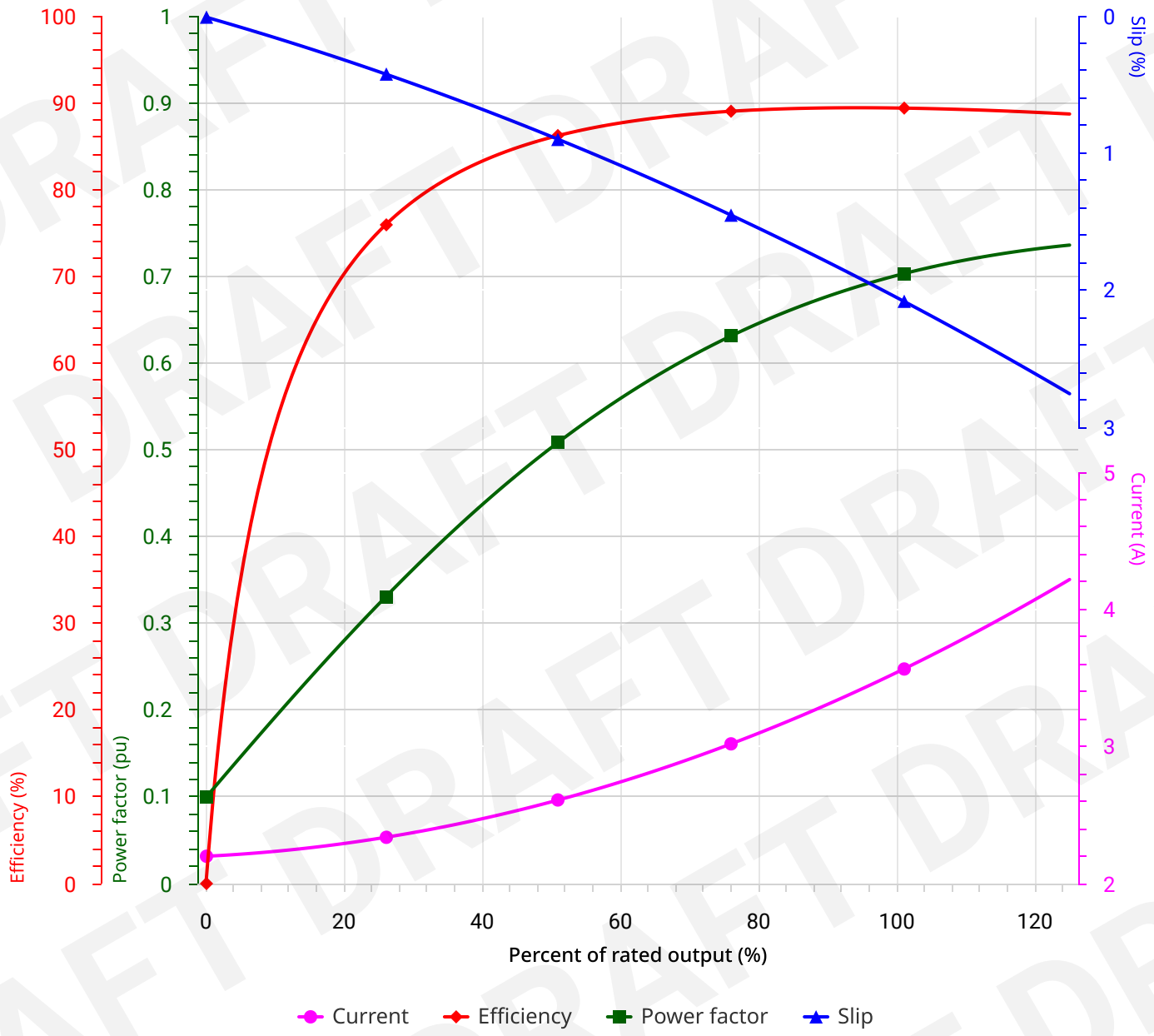
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

| | |
|---|---|
| Customer | : |
| Product line | : W22 IEEE 841 - Nema Premium Efficiency |
| Product code | : 13584923 |




| | |
|---|---|
| Performance | : 3 HP (2.2 kW) 575V 60Hz 6P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 3.53 A | Moment of inertia (J) | : 0.0504 kgm² |
| LRC | : 7.0 Code K | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.85 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.25 |
| Breakdown torque | : 280 % | Temperature rise | : 80 K |
| Rated speed | : 1175 rpm | Design | : B |

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