# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Sales document | : 51609684-000010 |

| | |
|---|---|
| Product line | : Special Motor |
| Product code | : 16665416 |

| | |
|---|---|
| Frame | : 184LP |
| Output | : 5 HP (3.7 kW) |
| Poles | : 2 |
| Frequency | : 60 Hz |
| Rated voltage | : 460 V |
| Rated current | : 6.10 A |
| L. R. Amperes | : 45.8 A |
| LRC | : 7.5 Code J |
| No load current | : 2.25 A |
| Rated speed | : 3495 rpm |
| Slip | : 2.92 % |
| Rated torque | : 1.04 kgfm |
| Locked rotor torque | : 230 % |
| Pull up torque | : 195 % |
| Breakdown torque | : 330 % |
| Insulation class | : F |
| Service factor | : 1.15 |
| Moment of inertia (J) | : 0.008 kgm² |

| | |
|---|---|
| Locked rotor time | : 26 s (hot) 47 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 | : IP55 |
| Cooling method | : IC411 - TEFC |
| Mounting | : V1 |
| Rotation[1] | : Both |
| Noise level[2] | : 69 dB(A) |
| Starting method | : Direct On Line |
| Approx. weight[3] | : 70.0 kg |
| Design | : B |

| Output | Start | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | - | 85.5 | 87.5 | 88.5 |
| Power Factor | 0.00 | 0.70 | 0.81 | 0.86 |

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

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6206-C3 | 7306BECB |
| Bearing type #2 | - | 7306BECB |
| Lubrication interval | 13463 h | 8437 h |
| Lubricant amount | 5 g | 7 g |
| Lubricant amount #2 | - | 7 g |
| Lubricant type | MOBIL POLYREX EM | |

Notes:
IN LINE EXTRA THRUST
NEMA Premium Efficiency

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) |
|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Standards

| | | | |
|---|---|---|---|
| Specification | : MG1 - Part 10 | Vibration | : MG1 - Part 7 |
| 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 |
|---|---|---|---|---|
| | | | | 14/06/2022 |

| | | | |
|---|---|---|---|
| Performed by | crislaine | 148077/2022 | |
| Checked by | AUTOMATICO | Page | Revision |
| Date | 14/06/2022 | 1/2 | 2 |

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## LOAD PERFORMANCE CURVE

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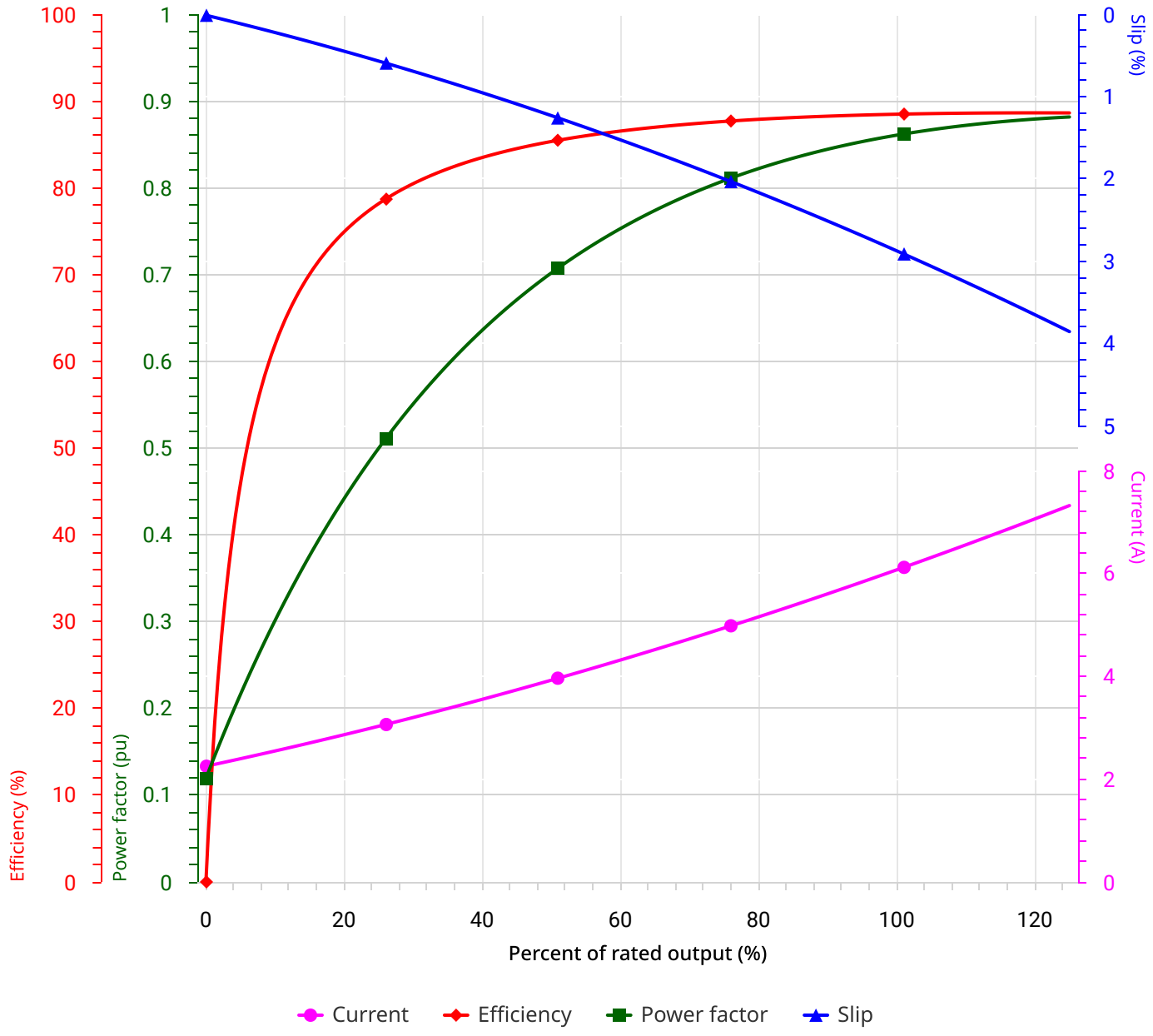


| | |
|---|---|
| Performance | : 5 HP (3.7 kW) 460V 60Hz 2P 184LP |

| | | | |
|---|---|---|---|
| Rated current | : 6.10 A | Moment of inertia (J) | : 0.008 kgm² |
| LRC | : 7.5 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.04 kgfm | Insulation class | : F |
| Locked rotor torque | : 230 % | Service factor | : 1.15 |
| Breakdown torque | : 330 % | Temperature rise | : 80 K |
| Rated speed | : 3495 rpm | Design | : B |

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