# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |

| | |
|---|---|
| Product line | : Special Motor |
| Product code | : 15793862 |

| | |
|---|---|
| Frame | : 213/5T |
| Output | : 7.5 HP (5.5 kW) |
| Poles | : 4 |
| Frequency | : 60 Hz |
| Rated voltage | : 230 V |
| Rated current | : 28.8 A |
| L. R. Amperes | : 259 A |
| LRC | : 9.0 Code J |
| No load current | : 6.30 A |
| Rated speed | : 1755 rpm |
| Slip | : 2.50 % |
| Rated torque | : 3.10 kgfm |
| Locked rotor torque | : 390 % |
| Pull up torque | : 330 % |
| Breakdown torque | : 300 % |
| Insulation class | : F |
| Service factor | : 1.15 |
| Moment of inertia (J) | : 0.0605 kgm² |

| | |
|---|---|
| Locked rotor time | : 9 s (hot) 16 s (cold) |
| Duty cycle | : S1 |
| Ambient temperature | : -20 °C to +40 °C |
| Altitude | : 1000 m.a.s.l |
| Protection degree | : IP55 |
| Cooling method | : IC411 - TEFC |
| Mounting | : F-1/B3R(D) |
| Rotation[1] | : Both |
| Noise level[2] | : 64 dB(A) |
| Starting method | : Direct On Line |
| Approx. weight[3] | : 74.0 kg |

| Output | Start | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | - | 78.5 | 84.0 | 85.5 |
| Power Factor | 0.88 | 0.95 | 0.96 | 0.97 |

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

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6208-2RS | 6206-2RS |
| Lubrication interval | - | - |
| Lubricant amount | - | - |
| Lubricant type | MOBIL POLYREX EM | |

| | |
|---|---|
| Foundation loads | |
| Max. traction | : - |
| Max. compression | : - |

Notes:

Standards

| | | | |
|---|---|---|---|
| Specification | : MG1 - Part 10 | Vibration | : |
| 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 |
|---|---|---|---|---|
| | | | | 17/05/2023 |

| | | | | |
|---|---|---|---|---|
| Performed by | issac | | 407312/2020 | |
| Checked by | victorivan | | Page | Revision |
| Date | 17/05/2023 | | 1/2 | 2 |

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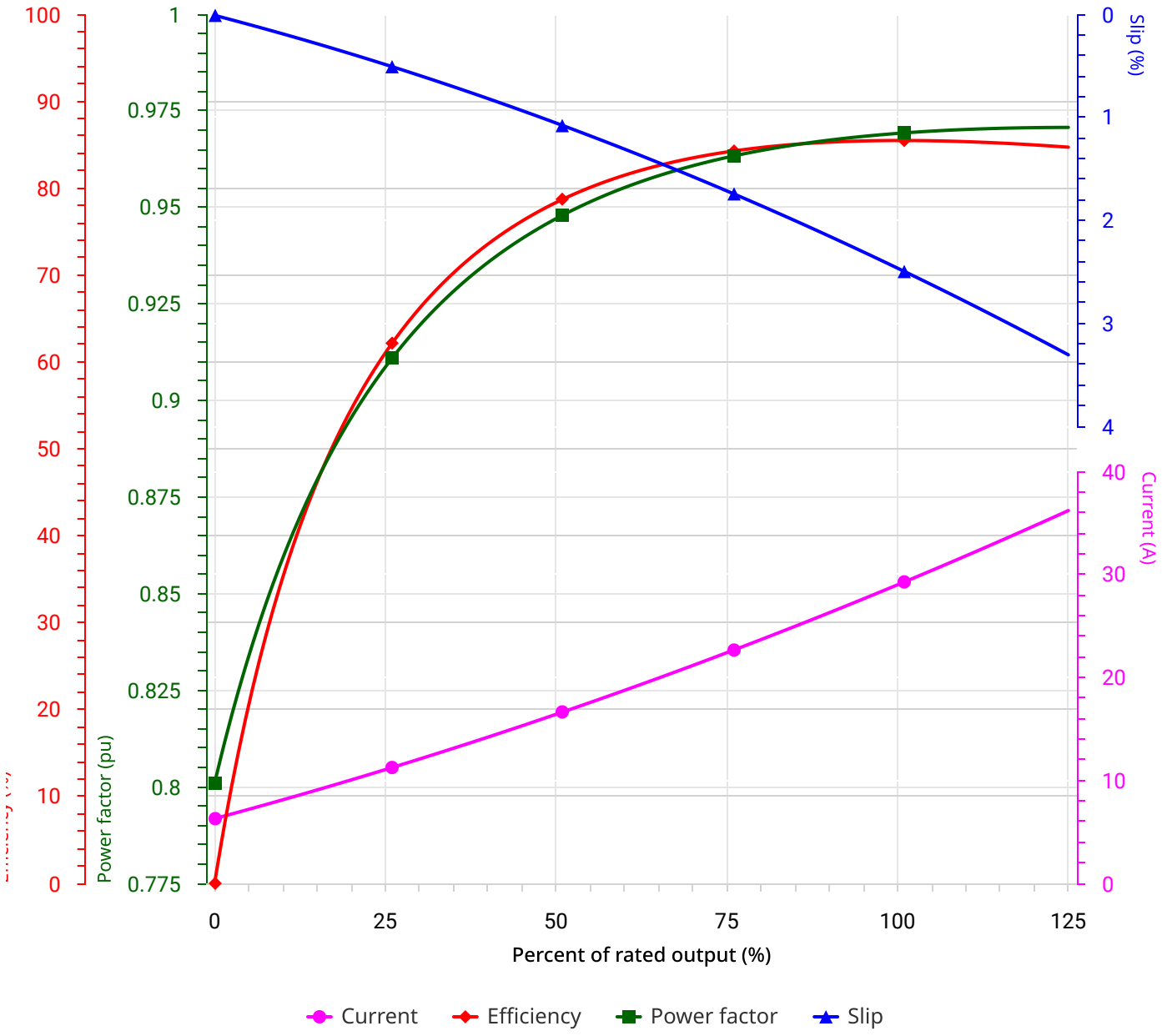
## LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : Special Motor |
| Product code | : 15793862 |




| | |
|---|---|
| Performance | : 7.5 HP (5.5 kW) 230V 60Hz 4P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 28.8 A | Moment of inertia (J) | : 0.0605 kgm² |
| LRC | : 9.0 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 3.10 kgfm | Insulation class | : F |
| Locked rotor torque | : 390 % | Service factor | : 1.15 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1755 rpm | | |

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| | | | | |
|---|---|---|---|---|
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