

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | |
|--|---------------------------|---|--|---------------------------|---------|----------|
| Customer : | | | | | | |
| Product line | | : Saw Arbor Motor Standard Efficiency Three-Phase | | Product code : 14381271 | | |
| Frame | : 80S/MS | Locked rotor time | : 16s (cold) 9s (hot) | | | |
| Output | : 3 HP (2.2 kW) | Temperature rise | : 80 K | | | |
| Poles | : 2 | Duty cycle | : S6 | | | |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C | | | |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. | | | |
| Rated current | : 3.43 A | Protection degree | : IP54 | | | |
| L. R. Amperes | : 25.1 A | Cooling method | : IC411 - TEFC | | | |
| LRC | : 7.3 | Mounting | : B3R(D) | | | |
| No load current | : 1.65 A | Rotation ¹ | : CW | | | |
| Rated speed | : 3500 rpm | Noise level ² | : 62.0 dB(A) | | | |
| Slip | : 2.78 % | Starting method | : Direct On Line | | | |
| Rated torque | : 0.622 kgfm | Approx. weight ³ | : 38.5 kg | | | |
| Locked rotor torque | : 330 % | | | | | |
| Breakdown torque | : 370 % | | | | | |
| Insulation class | : F | | | | | |
| Service factor | : 1.15 | | | | | |
| Moment of inertia (J) | : 0.0032 kgm ² | | | | | |
| Design | : N | | | | | |
| Output | 50% | 75% | 100% | Foundation loads | | |
| Efficiency (%) | 76.0 | 79.5 | 80.5 | Max. traction : 29 kgf | | |
| Power Factor | 0.65 | 0.75 | 0.80 | Max. compression : 67 kgf | | |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | |
| Bearing type | : | 6307 ZZ | | 6207 ZZ | | |
| Sealing | : | Without Bearing Seal | | Without Bearing Seal | | |
| Lubrication interval | : | - | | - | | |
| Lubricant amount | : | - | | - | | |
| Lubricant type | : | Mobil Polyrex EM | | | | |
| Notes | | | | | | |
| 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 +3dB(A). (3) Approximate weight subject to changes 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. | | | |
| Rev. | Changes Summary | | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 28/10/2024 | | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

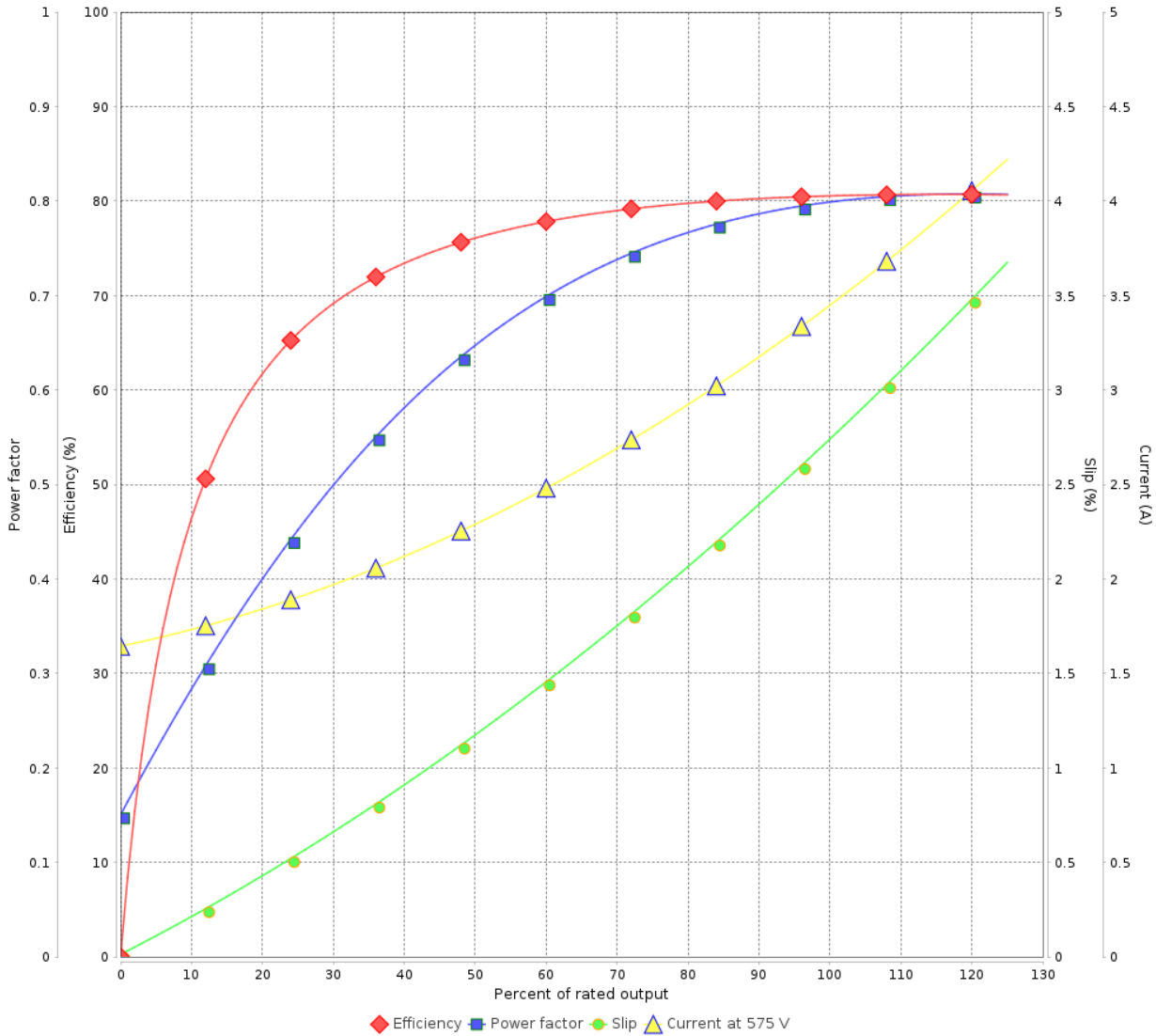


Customer :

Product line : Saw Arbor Motor Standard
Efficiency Three-Phase

Product code : 14381271

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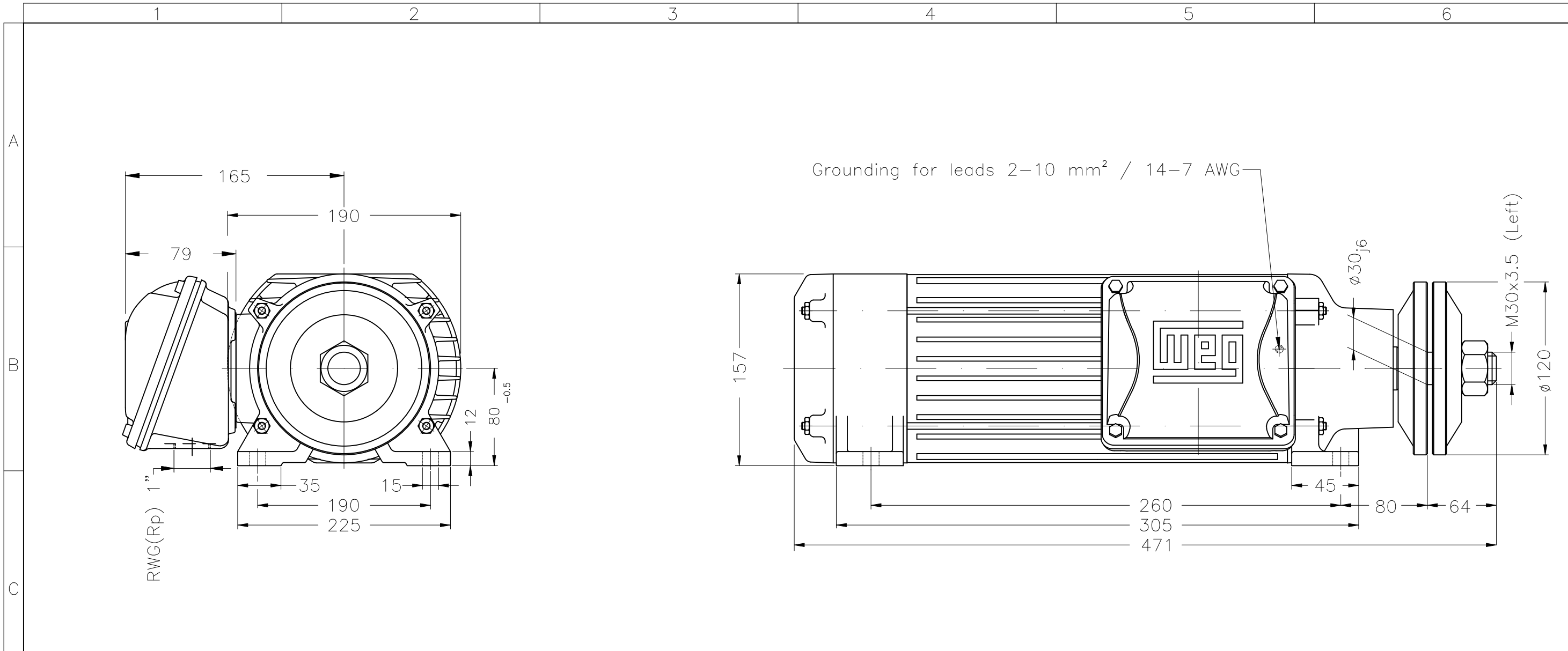


Performance : 575 V 60 Hz 2P

Rated current : 3.43 A
LRC : 7.3
Rated torque : 0.622 kgfm
Locked rotor torque : 330 %
Breakdown torque : 370 %
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0032 kgm²
Duty cycle : S6
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

| Rev. | Changes Summary | Performed | Checked | Date |
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|-----------|---------------------|--------------------------|--|---------------------------------|--|------------|---------|----------|------|-------------|---|----|
| E | 3 HP 02 Poles 60 Hz | | | | | | | | | | A | |
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| | | | | | | HYBRISUSER | | | | | | 00 |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | | EXECUTED | CHECKED | RELEASED | DATE | VER | | |
| EXECUTED | HYBRISUSER | | | THREE PH. MOTOR SAW ARBOR MOTOR | | | | | | PREVIEW | | |
| CHECKED | | | | FRAME 80S/MS IP54 TEFC | | | | | | WDD 00 | | |
| RELEASED | | | | | | | | | | SHEET 1 / 1 | | |
| REL. DATE | | WMO Jaragua do Sul | | Product Engineering | | | | | | | | |

Color RAL 7022
 Painting plan 207A
 Mounting B3R(D)