

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | |
|---|---|---|---------|----------|
| Customer | : | | | |
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : 12845391 | | |
| Frame | : 182/4TC | Cooling method : IC411 - TEFC | | |
| Insulation class | : F | Mounting : F-1 | | |
| Duty cycle | : Cont.(S1) | Rotation ¹ : Both (CW and CCW) | | |
| Ambient temperature | : -20°C to +40°C | Starting method : Direct On Line | | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ : 35.1 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) : 0.0066 kgm ² | | |
| Design | : B | | | |
| Output [HP] | | 3 | | |
| Poles | | 2 | | |
| Frequency [Hz] | | 60 | | |
| Rated voltage [V] | | 575 | | |
| Rated current [A] | | 2.94 | | |
| L. R. Amperes [A] | | 25.8 | | |
| LRC [A] | | 8.8x(Code K) | | |
| No load current [A] | | 1.29 | | |
| Rated speed [RPM] | | 3515 | | |
| Slip [%] | | 2.36 | | |
| Rated torque [kgfm] | | 0.619 | | |
| Locked rotor torque [%] | | 220 | | |
| Breakdown torque [%] | | 300 | | |
| Service factor | | 1.15 | | |
| Temperature rise | | 80 K | | |
| Locked rotor time | | 39s (cold) 22s (hot) | | |
| Noise level ² | | 68.0 dB(A) | | |
| Efficiency (%) | 25% | 83.6 | | |
| | 50% | 84.0 | | |
| | 75% | 86.5 | | |
| | 100% | 86.5 | | |
| Power Factor | 25% | 0.44 | | |
| | 50% | 0.71 | | |
| | 75% | 0.82 | | |
| | 100% | 0.87 | | |
| Bearing type | : <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ | Foundation loads | | |
| Sealing | : V'Ring Without Bearing Seal | Max. traction : 21 kgf | | |
| Lubrication interval | : - - | Max. compression : 56 kgf | | |
| Lubricant amount | : - - | | | |
| Lubricant type | : Mobil Polyrex EM | | | |
| Notes | | | | |
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> | | <p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p> | | |
| Rev. | Changes Summary | Performed | Checked | Date |
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 13/05/2022 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

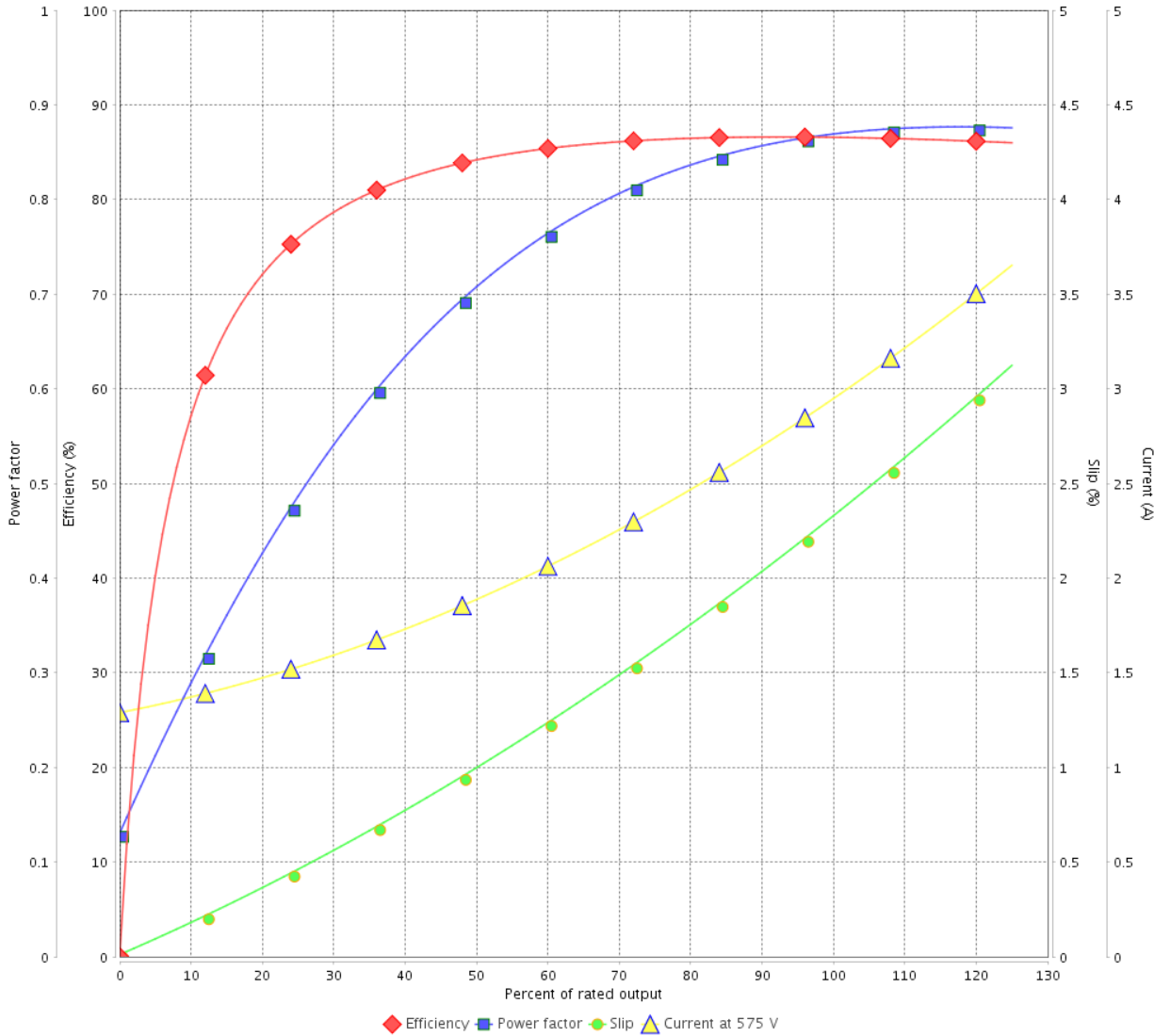
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12845391

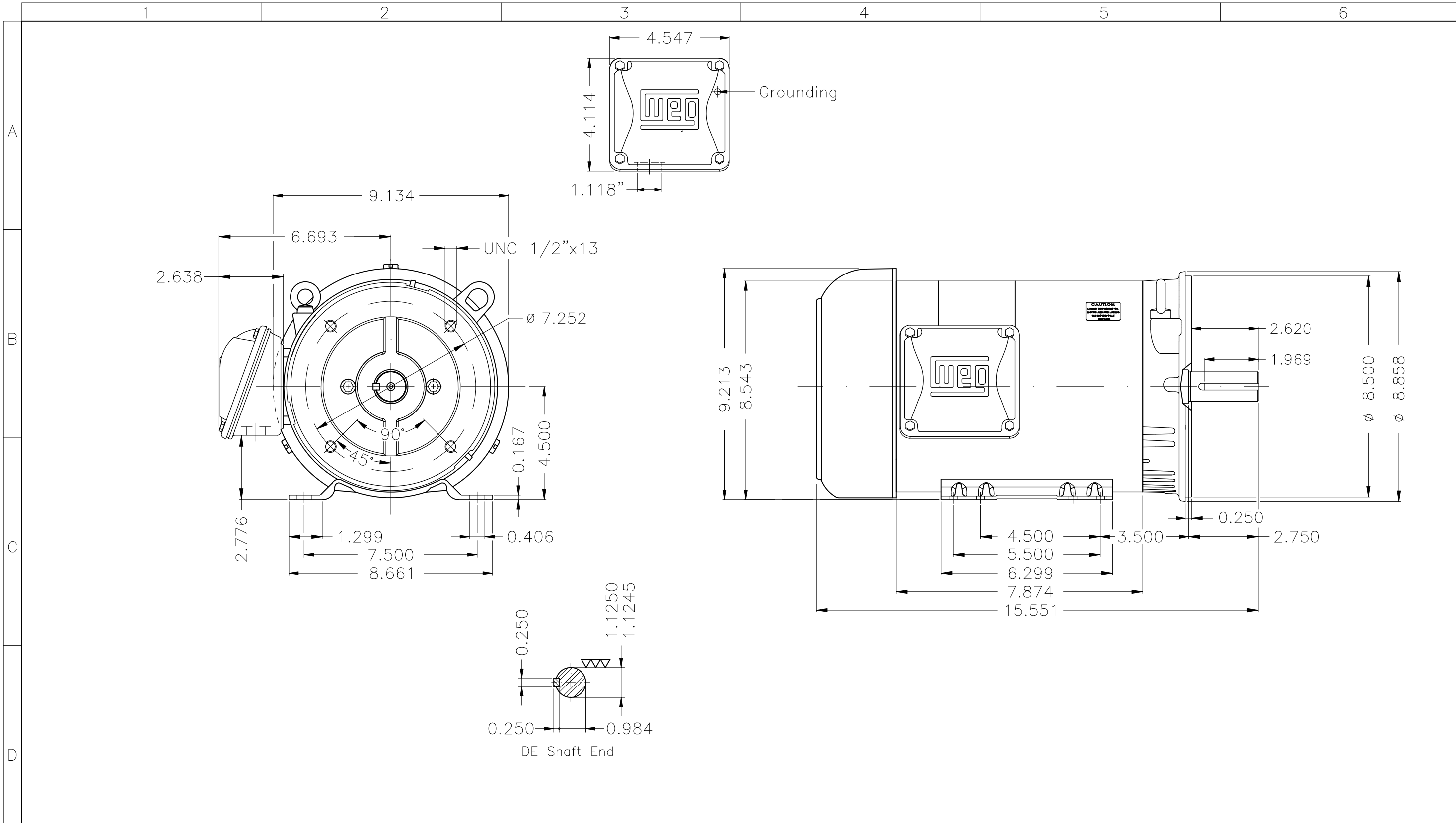
LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

| | |
|-----------------------------|---|
| Rated current : 2.94 A | Moment of inertia (J) : 0.0066 kgm ² |
| LRC : 8.8 | Duty cycle : Cont.(S1) |
| Rated torque : 0.619 kgfm | Insulation class : F |
| Locked rotor torque : 220 % | Service factor : 1.15 |
| Breakdown torque : 300 % | Temperature rise : 80 K |
| Rated speed : 3515 rpm | Design : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 2 / 2 | Revision |
| Checked by | | | | |
| Date | 13/05/2022 | | | |



| | | | | | | | | | |
|-------------------------------|------------|--|----------------|---------------------|------------|---------|----------|------|-----|
| Color Munsell N 1 matte black | | | | | | | | | |
| Painting plan 207N | | | | | | | | | |
| Mounting B34D | | | | | | | | | |
| | | | | | | | | | |
| | | | | | HYBRISUSER | 00 | | | |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF. | | | | PREVIEW | | | |
| CHECKED | | FRAME 182/4TC IP55 TEFC | | | | WDD | 00 | | |
| RELEASED | | | | | | | | | |
| REL. DATE | | WMO | Jaragua do Sul | Product Engineering | SHEET | 1 / 1 | | | |

3 HP 02 Poles 60 Hz

A

Dimensions in inches XME A3