

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



|  |                                      |   |  |          |
|--|--------------------------------------|---|--|----------|
| Customer :   |                                      |   |  |          |
| Product line : Single-Phase  |                                      | Product code : 13309029                   |  |          |
| Frame : 56C  | Insulation class : F                 | Cooling method : IC411 - TEFC             | Mounting : F-1   |          |
| Duty cycle : Cont.(S1)   | Ambient temperature : -20°C to +40°C | Rotation <sup>1</sup> : Both (CW and CCW) | Starting method : Direct On Line   |          |
| Altitude : 1000 m.a.s.l.   | Protection degree : IP55             | Approx. weight <sup>3</sup> : 16.6 kg     | Moment of inertia (J) : 0.0025 kgm <sup>2</sup>  |          |
| Design : L   |                                      |   |  |          |
| Output [HP]  | 1.5                                  |   |  |          |
| Poles  | 2                                    |   |  |          |
| Frequency [Hz]   | 60                                   |   |  |          |
| Rated voltage [V]  | 115/208-230                          |   |  |          |
| Rated current [A]  | 13.2/7.30-6.60                       |   |  |          |
| L. R. Amperes [A]  | 106/58.4-52.8                        |   |  |          |
| LRC [A]  | 8.0x(Code K)                         |   |  |          |
| No load current [A]  | 4.60/1.98-2.30                       |   |  |          |
| Rated speed [RPM]  | 3500                                 |   |  |          |
| Slip [%]   | 2.78                                 |   |  |          |
| Rated torque [kgfm]  | 0.311                                |   |  |          |
| Locked rotor torque [%]  | 240                                  |   |  |          |
| Breakdown torque [%]   | 250                                  |   |  |          |
| Service factor   |                                      |   |  |          |
| Temperature rise   | 80 K                                 |   |  |          |
| Locked rotor time  | 12s (cold) 7s (hot)                  |   |  |          |
| Noise level <sup>2</sup>   | 68.0 dB(A)                           |   |  |          |
| Efficiency (%)   | 25%                                  | 64.0                                      |  |          |
|  | 50%                                  | 66.0                                      |  |          |
|  | 75%                                  | 73.0                                      |  |          |
|  | 100%                                 | 75.0                                      |  |          |
| Power Factor   | 25%                                  | 0.63                                      |  |          |
|  | 50%                                  | 0.92                                      |  |          |
|  | 75%                                  | 0.95                                      |  |          |
|  | 100%                                 | 0.97                                      |  |          |
| Bearing type : 6204 ZZ   | Drive end                            | Non drive end                             | Foundation loads   |          |
| Sealing : V'Ring   |                                      | Without Bearing Seal                      | Max. traction : 16 kgf   |          |
| Lubrication interval : -   | -                                    | -   | Max. compression : 33 kgf  |          |
| Lubricant amount : -   | -                                    | -   |  |          |
| Lubricant type : Mobil Polyrex EM  |                                      |   |  |          |
| Notes  |                                      |   |  |          |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(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  |
| Performed by   |                                      |   |  |          |
| Checked by   |                                      |   |  |          |
| Date   | 13/05/2022                           |   | Page   | Revision |
|  |                                      |   | 1 / 2  |          |

# LOAD PERFORMANCE CURVE

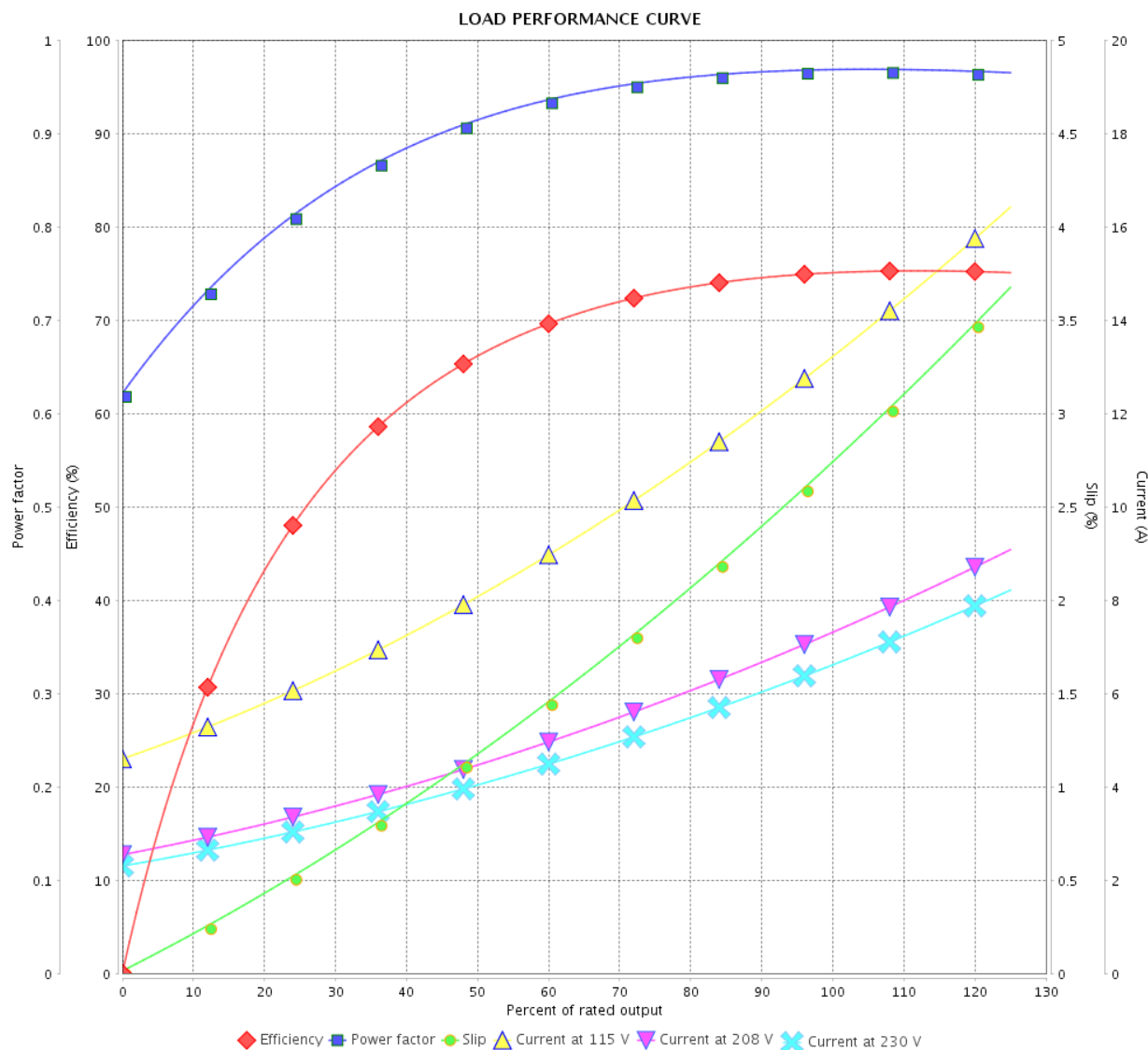
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 13309029

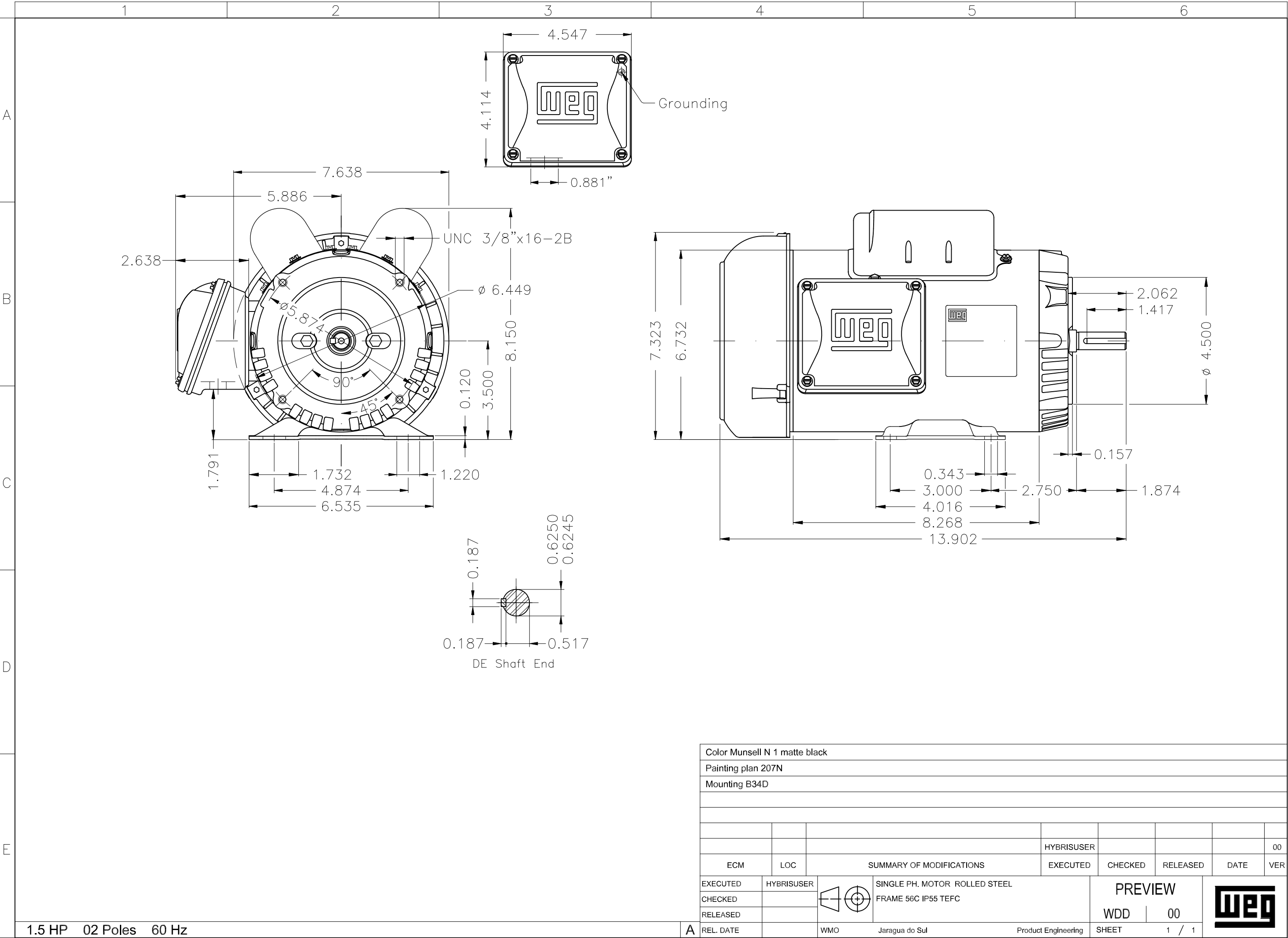


Performance : 115/208-230 V 60 Hz 2P

Rated current : 13.2/7.30-6.60 A  
 LRC : 8.0  
 Rated torque : 0.311 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0025 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : L

| Rev.         | Changes Summary |  | Performed | Checked | Date     |
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| Date         |                 |  |           |         |          |



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| Color Munsell N 1 matte black |  |  |  |  |  |  |  |  |  |
| Painting plan 207N            |  |  |  |  |  |  |  |  |  |
| Mounting B34D                 |  |  |  |  |  |  |  |  |  |
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