

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|                                                                                                                                                                                                                                                                                        |                                             |                                                                                                                          |                           |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------|----------|
| Customer :                                                                                                                                                                                                                                                                             |                                             |                                                                                                                          |                           |          |
| Product line                                                                                                                                                                                                                                                                           |                                             | : Standard Efficiency Three-Phase                                                                                        | Product code :            | 13522601 |
| Frame                                                                                                                                                                                                                                                                                  | : 56                                        | Cooling method                                                                                                           | : IC01 - ODP              |          |
| Insulation class                                                                                                                                                                                                                                                                       | : F                                         | Mounting                                                                                                                 | : F-1                     |          |
| Duty cycle                                                                                                                                                                                                                                                                             | : Cont.(S1)                                 | Rotation <sup>1</sup>                                                                                                    | : Both (CW and CCW)       |          |
| Ambient temperature                                                                                                                                                                                                                                                                    | : -20°C to +40°C                            | Starting method                                                                                                          | : Direct On Line          |          |
| Altitude                                                                                                                                                                                                                                                                               | : 1000 m.a.s.l.                             | Approx. weight <sup>3</sup>                                                                                              | : 10.1 kg                 |          |
| Design                                                                                                                                                                                                                                                                                 | : A                                         | Moment of inertia (J)                                                                                                    | : 0.0030 kgm <sup>2</sup> |          |
| Output [HP]                                                                                                                                                                                                                                                                            | 1                                           |                                                                                                                          |                           |          |
| Poles                                                                                                                                                                                                                                                                                  | 4                                           |                                                                                                                          |                           |          |
| Frequency [Hz]                                                                                                                                                                                                                                                                         | 60                                          |                                                                                                                          |                           |          |
| Rated voltage [V]                                                                                                                                                                                                                                                                      | 575                                         |                                                                                                                          |                           |          |
| Rated current [A]                                                                                                                                                                                                                                                                      | 1.44                                        |                                                                                                                          |                           |          |
| L. R. Amperes [A]                                                                                                                                                                                                                                                                      | 9.50                                        |                                                                                                                          |                           |          |
| LRC [A]                                                                                                                                                                                                                                                                                | 6.6x(Code L)                                |                                                                                                                          |                           |          |
| No load current [A]                                                                                                                                                                                                                                                                    | 1.12                                        |                                                                                                                          |                           |          |
| Rated speed [RPM]                                                                                                                                                                                                                                                                      | 1750                                        |                                                                                                                          |                           |          |
| Slip [%]                                                                                                                                                                                                                                                                               | 2.78                                        |                                                                                                                          |                           |          |
| Rated torque [kgfm]                                                                                                                                                                                                                                                                    | 0.415                                       |                                                                                                                          |                           |          |
| Locked rotor torque [%]                                                                                                                                                                                                                                                                | 250                                         |                                                                                                                          |                           |          |
| Breakdown torque [%]                                                                                                                                                                                                                                                                   | 290                                         |                                                                                                                          |                           |          |
| Service factor                                                                                                                                                                                                                                                                         | 1.15                                        |                                                                                                                          |                           |          |
| Temperature rise                                                                                                                                                                                                                                                                       | 80 K                                        |                                                                                                                          |                           |          |
| Locked rotor time                                                                                                                                                                                                                                                                      | 18s (cold) 10s (hot)                        |                                                                                                                          |                           |          |
| Noise level <sup>2</sup>                                                                                                                                                                                                                                                               | 52.0 dB(A)                                  |                                                                                                                          |                           |          |
| Efficiency (%)                                                                                                                                                                                                                                                                         | 25%                                         |                                                                                                                          |                           |          |
|                                                                                                                                                                                                                                                                                        | 50%                                         | 68.0                                                                                                                     |                           |          |
|                                                                                                                                                                                                                                                                                        | 75%                                         | 74.0                                                                                                                     |                           |          |
|                                                                                                                                                                                                                                                                                        | 100%                                        | 77.0                                                                                                                     |                           |          |
| Power Factor                                                                                                                                                                                                                                                                           | 25%                                         |                                                                                                                          |                           |          |
|                                                                                                                                                                                                                                                                                        | 50%                                         | 0.44                                                                                                                     |                           |          |
|                                                                                                                                                                                                                                                                                        | 75%                                         | 0.58                                                                                                                     |                           |          |
|                                                                                                                                                                                                                                                                                        | 100%                                        | 0.68                                                                                                                     |                           |          |
| Bearing type                                                                                                                                                                                                                                                                           | : Drive end 6204 ZZ Non drive end 6202 ZZ   | Foundation loads                                                                                                         |                           |          |
| Sealing                                                                                                                                                                                                                                                                                | : Without Bearing Seal Without Bearing Seal | Max. traction : 33 kgf                                                                                                   |                           |          |
|                                                                                                                                                                                                                                                                                        |                                             | Max. compression : 43 kgf                                                                                                |                           |          |
| Lubrication interval                                                                                                                                                                                                                                                                   | : -                                         |                                                                                                                          |                           |          |
| 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                                                                                                                                                                                                                                                                             |                                             |                                                                                                                          | Page                      | Revision |
| Date                                                                                                                                                                                                                                                                                   | 17/05/2022                                  |                                                                                                                          | 1 / 2                     |          |

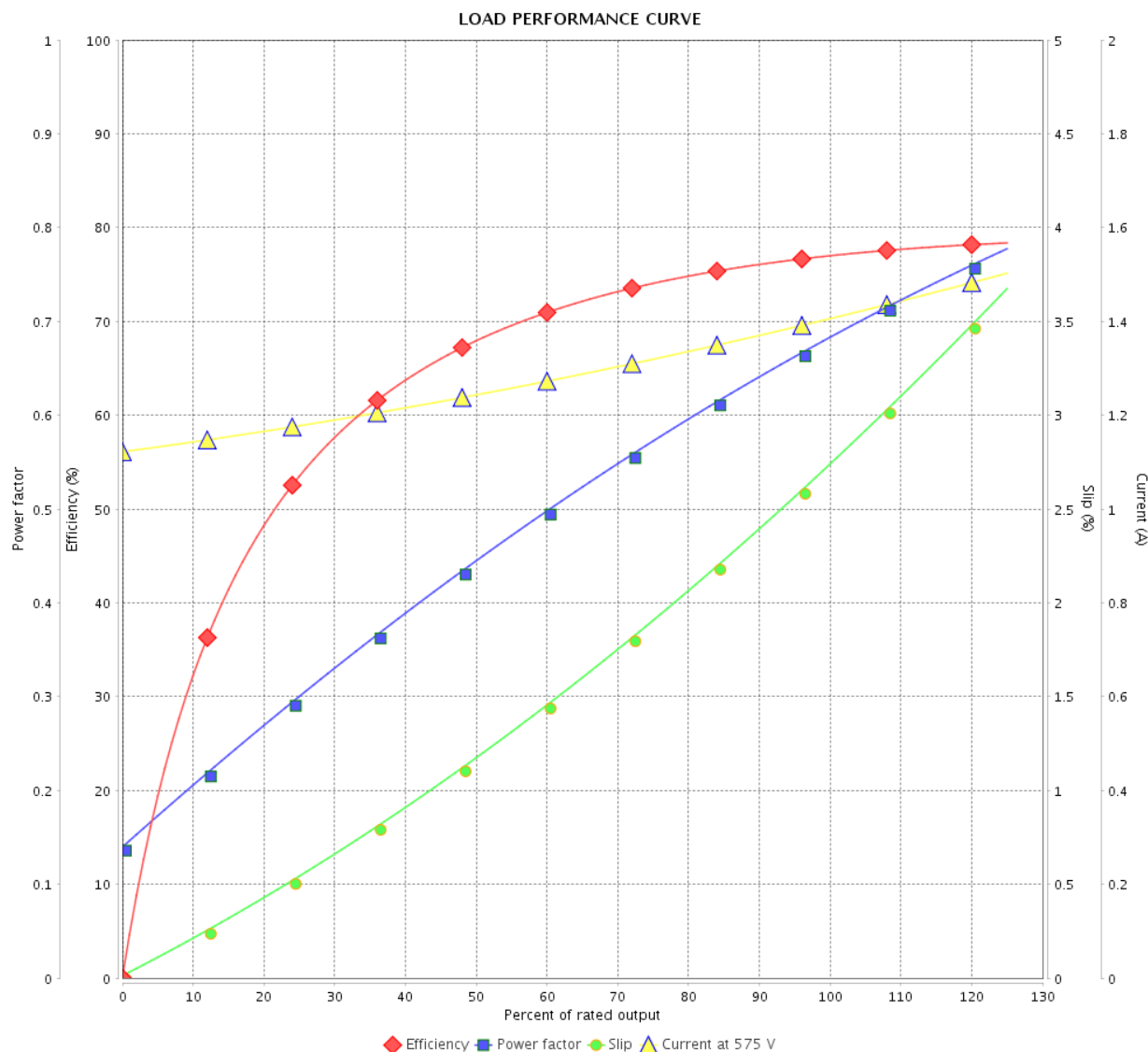
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13522601

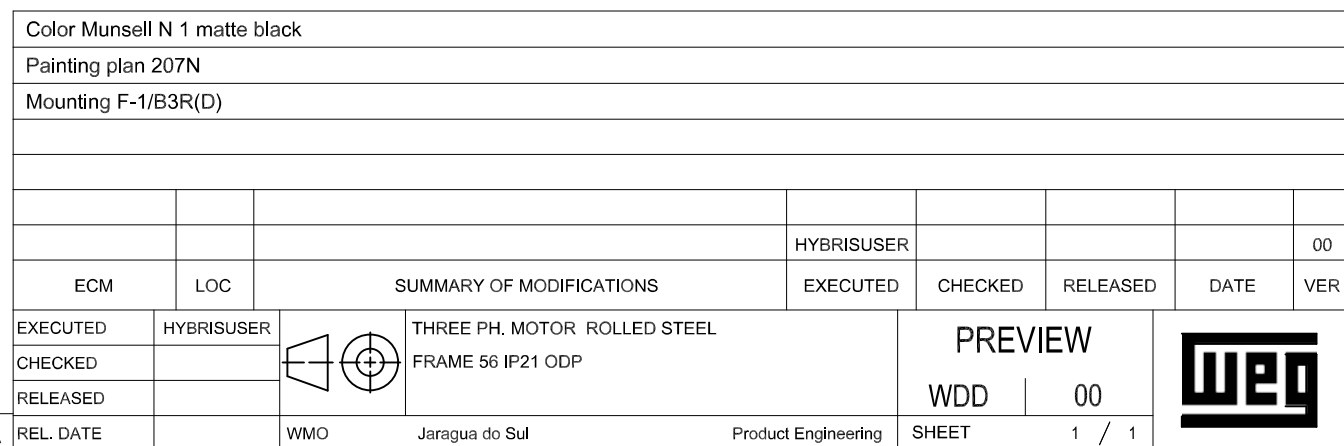
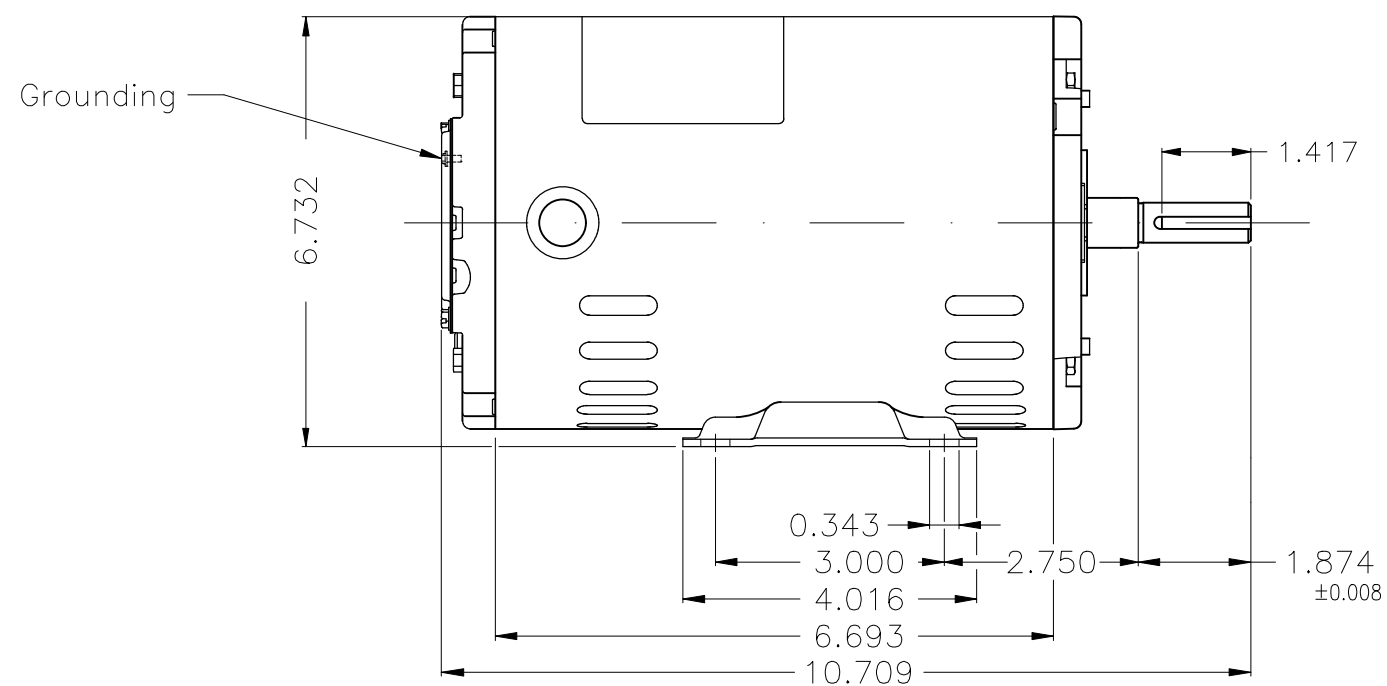


Performance : 575 V 60 Hz 4P

Rated current : 1.44 A  
 LRC : 6.6  
 Rated torque : 0.415 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 290 %  
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0030 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

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



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