

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



|                                                                                                                                                                                                                                                                                        |                                      |                                           |                                                                                                                          |            |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------|----------|
| Customer :                                                                                                                                                                                                                                                                             |                                      |                                           |                                                                                                                          |            |          |
| Product line : Single-Phase                                                                                                                                                                                                                                                            |                                      | Product code : 13484852                   |                                                                                                                          |            |          |
| Frame : 56                                                                                                                                                                                                                                                                             | Insulation class : F                 | Cooling method : IC01 - ODP               | 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.                                                                                                                                                                                                                                                               | Design : N                           | Approx. weight <sup>3</sup> : 13.1 kg     | Moment of inertia (J) : 0.0033 kgm <sup>2</sup>                                                                          |            |          |
| Output [HP]                                                                                                                                                                                                                                                                            | 0.75                                 |                                           |                                                                                                                          |            |          |
| Poles                                                                                                                                                                                                                                                                                  | 4                                    |                                           |                                                                                                                          |            |          |
| Frequency [Hz]                                                                                                                                                                                                                                                                         | 60                                   |                                           |                                                                                                                          |            |          |
| Rated voltage [V]                                                                                                                                                                                                                                                                      | 115/208-230                          |                                           |                                                                                                                          |            |          |
| Rated current [A]                                                                                                                                                                                                                                                                      | 10.5/5.81-5.25                       |                                           |                                                                                                                          |            |          |
| L. R. Amperes [A]                                                                                                                                                                                                                                                                      | 68.2/37.8-34.1                       |                                           |                                                                                                                          |            |          |
| LRC [A]                                                                                                                                                                                                                                                                                | 6.5x(Code L)                         |                                           |                                                                                                                          |            |          |
| No load current [A]                                                                                                                                                                                                                                                                    | 8.00/3.45-4.00                       |                                           |                                                                                                                          |            |          |
| Rated speed [RPM]                                                                                                                                                                                                                                                                      | 1745                                 |                                           |                                                                                                                          |            |          |
| Slip [%]                                                                                                                                                                                                                                                                               | 3.06                                 |                                           |                                                                                                                          |            |          |
| Rated torque [kgfm]                                                                                                                                                                                                                                                                    | 0.312                                |                                           |                                                                                                                          |            |          |
| Locked rotor torque [%]                                                                                                                                                                                                                                                                | 280                                  |                                           |                                                                                                                          |            |          |
| Breakdown torque [%]                                                                                                                                                                                                                                                                   | 270                                  |                                           |                                                                                                                          |            |          |
| Service factor                                                                                                                                                                                                                                                                         |                                      |                                           |                                                                                                                          |            |          |
| Temperature rise                                                                                                                                                                                                                                                                       | 80 K                                 |                                           |                                                                                                                          |            |          |
| Locked rotor time                                                                                                                                                                                                                                                                      | 18s (cold) 10s (hot)                 |                                           |                                                                                                                          |            |          |
| Noise level <sup>2</sup>                                                                                                                                                                                                                                                               | 52.0 dB(A)                           |                                           |                                                                                                                          |            |          |
| Efficiency (%)                                                                                                                                                                                                                                                                         | 25%                                  |                                           |                                                                                                                          |            |          |
|                                                                                                                                                                                                                                                                                        | 50%                                  | 60.0                                      |                                                                                                                          |            |          |
|                                                                                                                                                                                                                                                                                        | 75%                                  | 66.0                                      |                                                                                                                          |            |          |
|                                                                                                                                                                                                                                                                                        | 100%                                 | 69.0                                      |                                                                                                                          |            |          |
| Power Factor                                                                                                                                                                                                                                                                           | 25%                                  |                                           |                                                                                                                          |            |          |
|                                                                                                                                                                                                                                                                                        | 50%                                  | 0.46                                      |                                                                                                                          |            |          |
|                                                                                                                                                                                                                                                                                        | 75%                                  | 0.57                                      |                                                                                                                          |            |          |
|                                                                                                                                                                                                                                                                                        | 100%                                 | 0.66                                      |                                                                                                                          |            |          |
| Bearing type : 6203 ZZ                                                                                                                                                                                                                                                                 | Drive end                            | Non drive end                             | Foundation loads                                                                                                         |            |          |
| Sealing : Without                                                                                                                                                                                                                                                                      |                                      |                                           | Max. traction : 20 kgf                                                                                                   |            |          |
|                                                                                                                                                                                                                                                                                        | Bearing Seal                         | Bearing Seal                              | Max. compression : 33 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    | Date     |
| Performed by                                                                                                                                                                                                                                                                           |                                      |                                           |                                                                                                                          |            |          |
| Checked by                                                                                                                                                                                                                                                                             |                                      |                                           |                                                                                                                          |            |          |
| Date                                                                                                                                                                                                                                                                                   | 17/05/2022                           |                                           |                                                                                                                          | Page 1 / 2 | Revision |

# LOAD PERFORMANCE CURVE

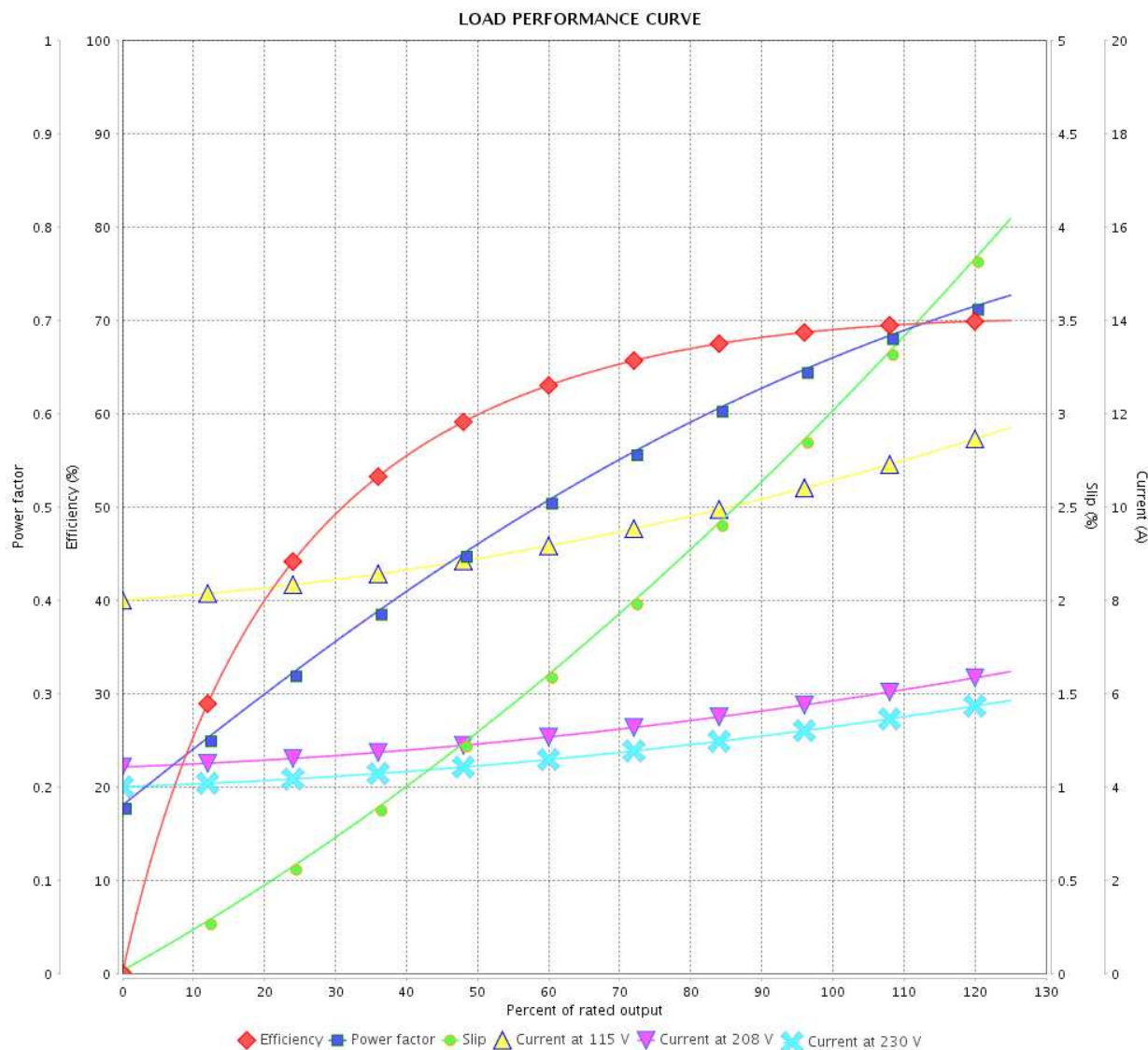
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 13484852

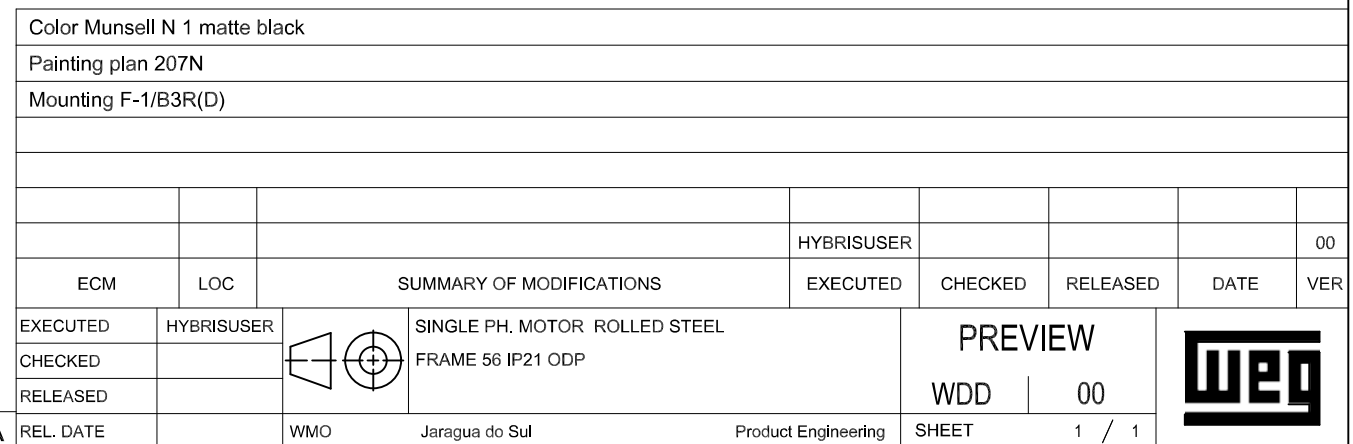
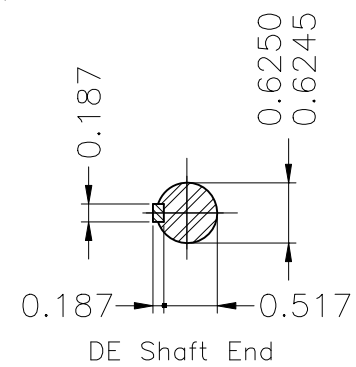


Performance : 115/208-230 V 60 Hz 4P

Rated current : 10.5/5.81-5.25 A  
 LRC : 6.5  
 Rated torque : 0.312 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 270 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0033 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

| Rev.         | Changes Summary | Performed | Checked | Date          |
|--------------|-----------------|-----------|---------|---------------|
|              |                 |           |         |               |
| Performed by |                 |           |         | Page<br>2 / 2 |
| Checked by   |                 |           |         |               |
| Date         |                 |           |         |               |
|              | 17/05/2022      |           |         | Revision      |



Dimensions in inches

|     |    |
|-----|----|
| KME | A3 |
|-----|----|