

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Farm Duty Single-Phase Product code : 12058468

|                       |                           |                             |                       |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame                 | : B56C                    | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 0.75 HP (0.55 kW)       | Temperature rise            | : 80 K                |
| Poles                 | : 4                       | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 115/230 V               | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 10.6/5.30 A             | Protection degree           | : IP55                |
| L. R. Amperes         | : 65.7/32.9 A             | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 6.2x(Code M)            | Mounting                    | : F-1                 |
| No load current       | : 8.00/4.00 A             | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 1745 rpm                | Noise level <sup>2</sup>    | : 55.0 dB(A)          |
| Slip                  | : 3.06 %                  | Starting method             | : Direct On Line      |
| Rated torque          | : 0.312 kgfm              | Approx. weight <sup>3</sup> | : 13.5 kg             |
| Locked rotor torque   | : 300 %                   |                             |                       |
| Breakdown torque      | : 250 %                   |                             |                       |
| Insulation class      | : B                       |                             |                       |
| Service factor        | : 1.15                    |                             |                       |
| Moment of inertia (J) | : 0.0041 kgm <sup>2</sup> |                             |                       |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 58.5 | 66.0 | 68.5 | Max. traction    | : 18 kgf |
| Power Factor   | 0.47 | 0.58 | 0.66 | Max. compression | : 31 kgf |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6203 ZZ          | 6202 ZZ              |
| Sealing              | : | V'Ring           | V'Ring               |
| 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 |                 | Page<br>1 / 2<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 20/10/2024      |                           |         |      |

LOAD PERFORMANCE CURVE

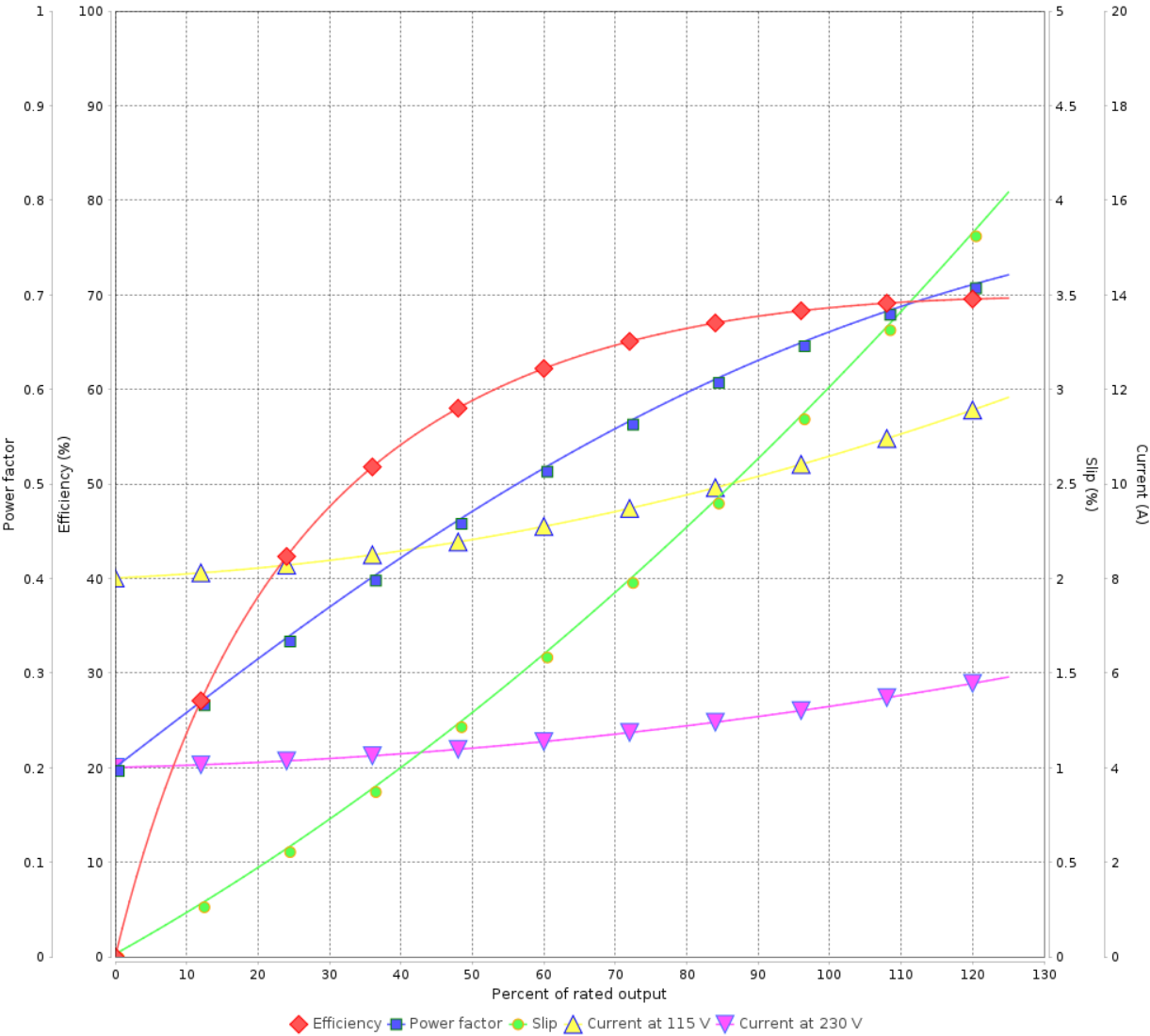
Single Phase Induction Motor - Squirrel Cage



Customer :

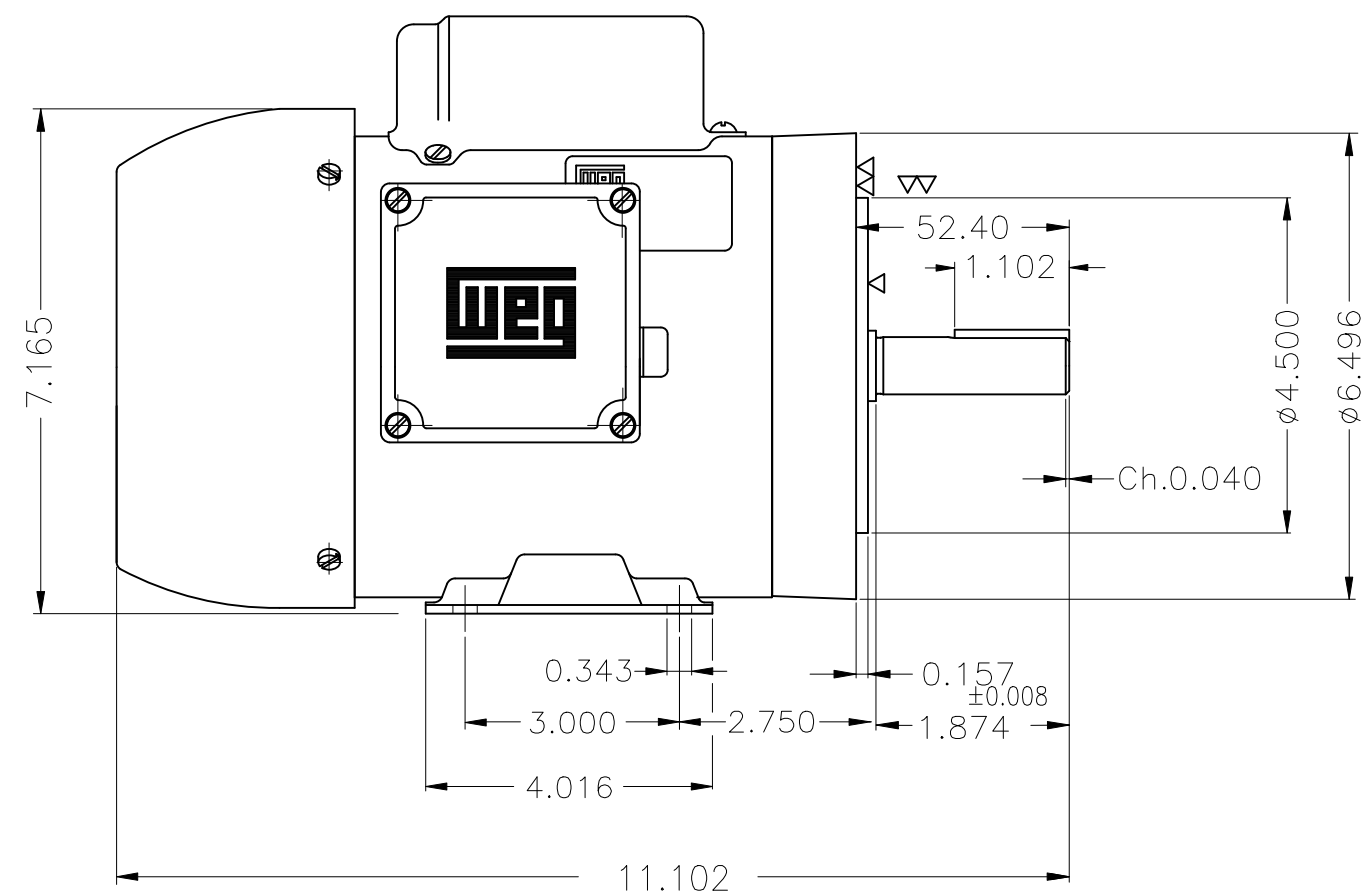
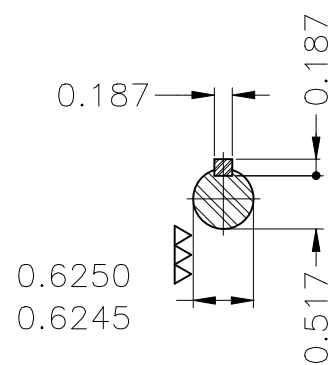
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LOAD PERFORMANCE CURVE



|                                  |               |                       |                           |
|----------------------------------|---------------|-----------------------|---------------------------|
| Performance : 115/230 V 60 Hz 4P |               |                       |                           |
| Rated current                    | : 10.6/5.30 A | Moment of inertia (J) | : 0.0041 kgm <sup>2</sup> |
| LRC                              | : 6.2         | Duty cycle            | : Cont.(S1)               |
| Rated torque                     | : 0.312 kgfm  | Insulation class      | : B                       |
| Locked rotor torque              | : 300 %       | Service factor        | : 1.15                    |
| Breakdown torque                 | : 250 %       | Temperature rise      | : 80 K                    |
| Rated speed                      | : 1745 rpm    |                       |                           |

| Rev.         | Changes Summary | Performed                | Checked | Date |
|--------------|-----------------|--------------------------|---------|------|
|              |                 |                          |         |      |
| Performed by |                 | Page 2 / 2      Revision |         |      |
| Checked by   |                 |                          |         |      |
| Date         | 20/10/2024      |                          |         |      |



|               |            |                                                                                       |                                                    |                     |         |                     |      |                                                                                       |    |
|---------------|------------|---------------------------------------------------------------------------------------|----------------------------------------------------|---------------------|---------|---------------------|------|---------------------------------------------------------------------------------------|----|
| Mounting B34D |            |                                                                                       |                                                    |                     |         |                     |      |                                                                                       |    |
|               |            |                                                                                       |                                                    |                     |         |                     |      |                                                                                       |    |
|               |            |                                                                                       |                                                    |                     |         |                     |      |                                                                                       |    |
|               |            |                                                                                       | HYBRISUSER                                         |                     |         |                     |      |                                                                                       | 00 |
| ECM           | LOC        | SUMMARY OF MODIFICATIONS                                                              |                                                    | EXECUTED            | CHECKED | RELEASED            | DATE | VER                                                                                   |    |
| EXECUTED      | HYBRISUSER |  | SINGLE PH. MOTOR FARM DUTY<br>FRAME B56C IP55 TEFC |                     |         | PREVIEW<br>WDD   00 |      |  |    |
| CHECKED       |            |                                                                                       |                                                    |                     |         |                     |      |                                                                                       |    |
| RELEASED      |            |                                                                                       |                                                    |                     |         |                     |      |                                                                                       |    |
| REL. DATE     |            | WMO                                                                                   | Jaragua do Sul                                     | Product Engineering | SHEET   | 1 / 1               |      |                                                                                       |    |