

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W01 - TEFC - Premium Efficiency (DOE) Derating

|                     |                    |                             |                   |
|---------------------|--------------------|-----------------------------|-------------------|
| Frame               | : 56C              | Cooling method              | : IC411 - TEFC    |
| Insulation class    | : F                | Mounting                    | : F-1/B14R(D)     |
| Duty cycle          | : S1               | Rotation <sup>1</sup>       | : Both            |
| Ambient temperature | : -20 °C to +40 °C | Starting method             | : Direct On Line  |
| Altitude            | : 3280 ft          | Approx. weight <sup>3</sup> | : 36.2 lb         |
| Protection degree   | : IP55             | Moment of inertia (J)       | : 0.1424 sq.ft.lb |
| Design              | : B                |                             |                   |

|                          |                   |                   |                   |
|--------------------------|-------------------|-------------------|-------------------|
| Output                   | 0.75 HP (0.55 kW) | 0.75 HP (0.55 kW) | 0.75 HP (0.55 kW) |
| Poles                    | 6                 | 6                 | 6                 |
| Frequency                | 60 Hz             | 50 Hz             | 50 Hz             |
| Rated voltage            | 208-230/460 V     | 190/380 V         | 220/415 V         |
| Rated current            | 2.85-2.58/1.29 A  | 2.88/1.44 A       | 2.70/1.43 A       |
| L. R. Amperes            | 18.5-16.8/8.39 A  | 15.0/7.49 A       | 15.9/8.44 A       |
| LRC                      | 6.5               | 5.2               | 5.9               |
| No load current          | 1.61-1.87/0.933 A | 1.84/0.921 A      | 1.98/1.05 A       |
| Rated speed              | 1160 rpm          | 940 rpm           | 955 rpm           |
| Slip                     | 3.33 %            | 6.00 %            | 4.50 %            |
| Rated torque             | 3.35 ft.lb        | 4.13 ft.lb        | 4.07 ft.lb        |
| Locked rotor torque      | 290 %             | 230 %             | 290 %             |
| Pull up torque           | 245 %             | 195 %             | 245 %             |
| Breakdown torque         | 370 %             | 270 %             | 330 %             |
| Service factor           | 1.15              | 1.15              | 1.15              |
| Temperature rise         | 80 K              | 80 K              | 80 K              |
| Noise level <sup>2</sup> | 50.0 dB(A)        | 48.0 dB(A)        | 48.0 dB(A)        |
| Locked rotor time (hot)  | 40 s              | 38 s              | 34 s              |
| Locked rotor time (cold) | 72 s              | 68 s              | 61 s              |
| Efficiency (%)           | 50%               | 77.0              | 79.3              |
|                          | 75%               | 81.5              | 81.3              |
|                          | 100%              | 82.5              | 80.7              |
| Power Factor             | 50%               | 0.43              | 0.50              |
|                          | 75%               | 0.55              | 0.63              |
|                          | 100%              | 0.65              | 0.72              |

|                      |                      |                          |                                     |         |
|----------------------|----------------------|--------------------------|-------------------------------------|---------|
| Bearing type         | Drive end<br>6203-ZZ | Non drive end<br>6202-ZZ | Foundation loads                    |         |
| Lubrication interval | -                    | -                        | Max. traction                       | : 506 N |
| Lubricant amount     | -                    | -                        | Max. compression                    | : 667 N |
| Lubricant type       | MOBIL POLYREX EM     |                          | Load type                           | : -     |
|                      |                      |                          | Load torque                         | : -     |
|                      |                      |                          | Load inertia (J=GD <sup>2</sup> /4) | : -     |

Notes  
See notes on page 2.

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 be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

|              |                 |  |      |         |      |
|--------------|-----------------|--|------|---------|------|
| Rev.         | Changes Summary |  | Rev. | Checked | Date |
|              |                 |  |      |         |      |
| Performed by | fmonroy         |  |      | Page    | Rev. |
| Checked by   |                 |  |      | 1 / 2   | 0    |
| Date         | 14/07/2026      |  |      |         |      |

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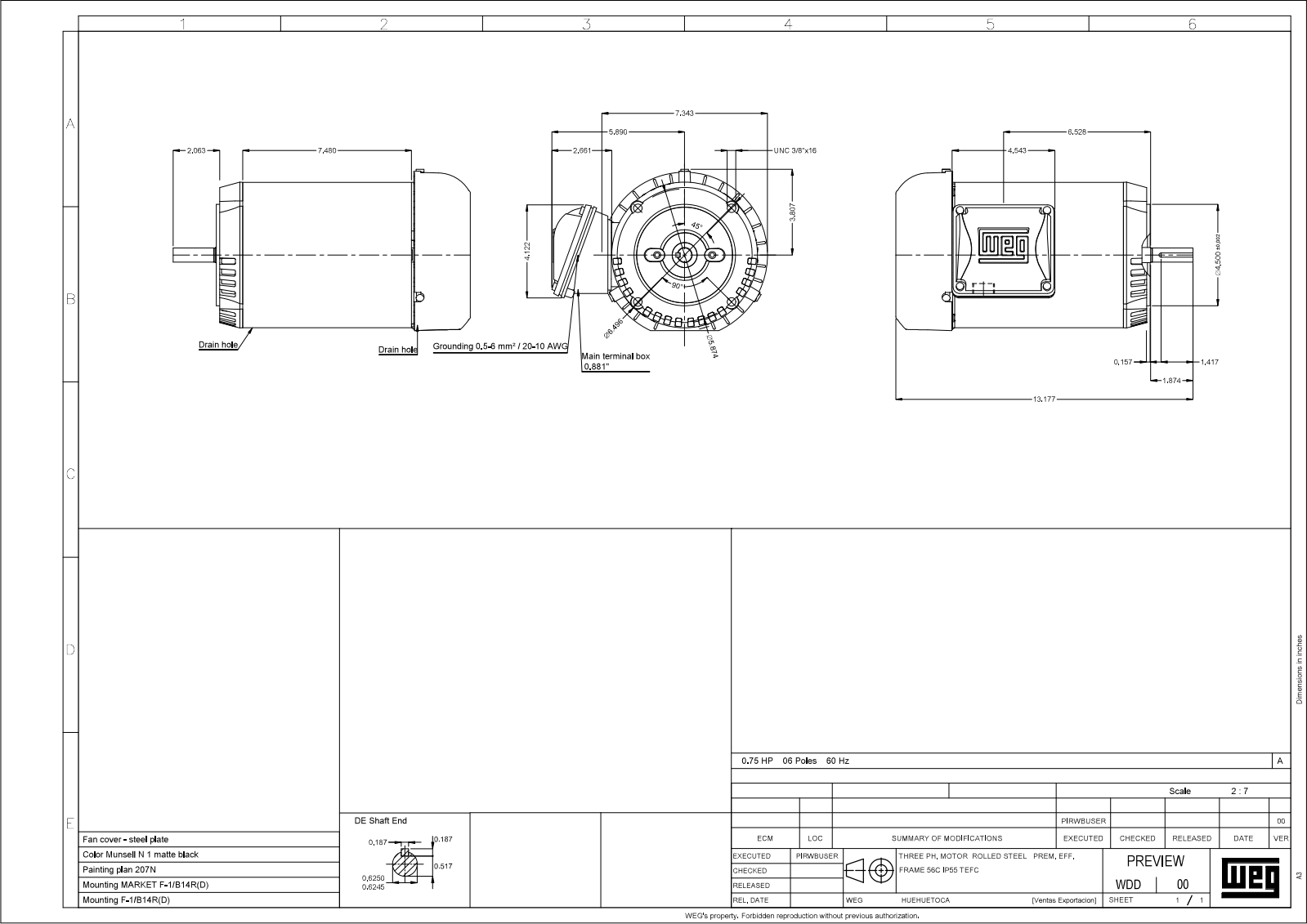
|                    |             |      |          |                     |
|--------------------|-------------|------|----------|---------------------|
| Thermal protection |             |      |          |                     |
| ID                 | Application | Type | Quantity | Sensing Temperature |

Notes

|           |               |                 |           |                 |
|-----------|---------------|-----------------|-----------|-----------------|
| Standards | Specification | : MG1 - Part 10 | Vibration | : MG1 - Part 7  |
|           | Test          | : MG1 - Part 12 | Tolerance | : MG1 - Part 12 |
|           | Noise         | : MG1 - Part 9  |           |                 |

|                                                                                                                                                                                                                                                               |                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
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| Performed by | fmonroy         |  |      | Page    | Rev. |
| Checked by   |                 |  |      | 2 / 2   | 0    |
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Dimensions in inches

A2