

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12760979

Catalog # :

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 143/5TC         | Locked rotor time           | : 19s (cold) 11s (hot) |
| Output                | : 2 HP (1.5 kW)   | Temperature rise            | : 105 K                |
| Poles                 | : 4               | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 230/460 V       | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 5.31/2.65 A     | Protection degree           | : IP55                 |
| L. R. Amperes         | : 43.0/21.5 A     | Cooling method              | : IC410 - TENV         |
| LRC                   | : 8.1x(Code K)    | Mounting                    | : F-1                  |
| No load current       | : 3.10/1.55 A     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1755 rpm        | Starting method             | : VFD                  |
| Slip                  | : 2.50 %          | Approx. weight <sup>3</sup> | : 61.7 lb              |
| Rated torque          | : 5.98 ft.lb      |                             |                        |
| Locked rotor torque   | : 250 %           |                             |                        |
| Breakdown torque      | : 330 %           |                             |                        |
| Insulation class      | : H               |                             |                        |
| Service factor        | : 1.00            |                             |                        |
| Moment of inertia (J) | : 0.1566 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

|                |       |      |      |      |                  |          |
|----------------|-------|------|------|------|------------------|----------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 0.000 | 85.8 | 86.5 | 86.5 | Max. traction    | : 141 lb |
| Power Factor   | 0.00  | 0.63 | 0.76 | 0.82 | Max. compression | : 203 lb |

|                      |   | Drive end        | Non drive end |
|----------------------|---|------------------|---------------|
| Bearing type         | : | 6205 ZZ          | 6205 ZZ       |
| Sealing              | : | V'Ring           | V'Ring        |
| Lubrication interval | : | 0 h              | 0 h           |
| Lubricant amount     | : | 0 g              | 0 g           |
| 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         | 06/03/2025      |                           |         |      |

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Customer :

Thermal protection

| ID | Application | Type                 | Quantity  | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1  | Winding     | Thermostat - 2 wires | 1 x Phase | 155 °C              |

|              |                 |  |           |         |          |
|--------------|-----------------|--|-----------|---------|----------|
| Rev.         | Changes Summary |  | Performed | Checked | Date     |
|              |                 |  |           |         |          |
| Performed by |                 |  |           | Page    | Revision |
| Checked by   |                 |  |           | 2 / 2   |          |
| Date         | 06/03/2025      |  |           |         |          |

1

EJE/SHAFT

ESTÁNDAR/STANDARD

OPCIONAL/OPTIONAL

ESPECIAL/SPECIAL

Dimensões em polegadas

Dimensions in inches

2

3

4

5

6

CERTIFIED  
WEG MOTORES

Certified document.  
Not subject to changes.

THIS IS AN UPDATED REVISION, THE  
PREVIOUS ONE MUST BE DISREGARDED.

NON DRIVE END

UNC 3/8"–16

ø5.875

90°

45°

A4

0.188

ø0.625

0.517

DRIVE END

UNC 3/8"–16

ø5.875

90°

45°

NPT 3/4

ø0.344

0.354

3.500

7.047

5.866

1.437

5.500

6.457

0.187

A4

0.187

0.771

ø0.875

1.575

2.125

0.156

0.125

2.250

2.250

4.000

5.000

6.142

11.874

14.678

7.122

ø6.496

ø4.500

0.156

1.750

ø4.500

ø6.500

Sin deflectora / Without fan cover

Termostato 155°C – Desconexión / Thermostats 155°C to trip

Anillo fijación del rodamiento / Bearing cap

Sin ventilador / Without fan

Plan de pintura 207A / Painting plan 207A

Forma constructiva NEMA F-1 / Mounting NEMA F-1

Forma constructiva B34R(D) / Mounting B34R(D)

WEG ELECTRIC CORPORATION – WEC

500001499515

500001086698

ECM

LOC

EXECUTED

CHECKED

RELEASED

REL DT

ACCORDING TO CLAIM 415160683

ALT. DISTÂNCIA FUNDO CHAVETA

SUMMARY OF MODIFICATIONS

PNAVA

PNAVA

PNAVA

31.03.2014

DRDRIGUEZ

ALESOMZ

EXECUTED

WNX

JOSEARMANDO

MENSOR

CHECKED

HUEHUETOCA

JOSEARMANDO

MENSOR

RELEASED

INGENIERA DEL PRODUCTO

27.11.2018

21.09.2015

DATE

SHEET

03

02

VER

1 /

10002789442

000

03

WEG

2 HP

04 Poles

60Hz

413383216

A

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A3

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