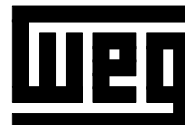


# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22Xdb Flameproof - Standard Efficiency IE1 Multivoltage Product code : 15881231

|                                        |                                                 |
|----------------------------------------|-------------------------------------------------|
| Frame : 225S/M                         | Cooling method : TEFC-XP                        |
| Insulation class : F                   | Mounting : B3T                                  |
| Duty cycle : S1                        | Direct of rotation <sup>1</sup> : Both          |
| Ambient temperature : -20 °C to +40 °C | Starting method : Direct On Line                |
| Altitude : 1000 m.a.s.l                | Approx. weight <sup>3</sup> : 497 kg            |
| Degree of protection : IP56            | Moment of inertia (J) : 0.3944 kgm <sup>2</sup> |
| Design : N                             |                                                 |

|                          |                           |                           |                           |
|--------------------------|---------------------------|---------------------------|---------------------------|
| Output                   | 37 kW (50 HP)             | 37 kW (50 HP)             | 37 kW (50 HP)             |
| Poles                    | 4                         | 4                         | 4                         |
| Frequency                | 50 Hz                     | 50 Hz                     | 50 Hz                     |
| Rated voltage            | 380/660 V                 | 400/690 V                 | 415 V                     |
| Rated current            | 71.1/40.9 A               | 68.1/39.5 A               | 67.3 A                    |
| L. R. Amperes            | 476/274 A                 | 477/276 A                 | 491 A                     |
| LRC (p.u.)               | 6.7                       | 7.0                       | 7.3                       |
| No load current          | 22.0/12.7 A               | 25.0/14.5 A               | 27.0 A                    |
| Rated speed              | 1470 rpm                  | 1478 rpm                  | 1479 rpm                  |
| Slip                     | 2.00 %                    | 1.47 %                    | 1.40 %                    |
| Rated torque             | 240 Nm                    | 239 Nm                    | 239 Nm                    |
| Locked rotor torque      | 200 %                     | 230 %                     | 250 %                     |
| Breakdown torque         | 240 %                     | 270 %                     | 290 %                     |
| Service factor           | 1.00                      | 1.00                      | 1.00                      |
| Noise level <sup>2</sup> | 68.0 dB(A)                | 68.0 dB(A)                | 68.0 dB(A)                |
| Locked rotor time        | 10 s (hot)<br>18 s (cold) | 10 s (hot)<br>18 s (cold) | 10 s (hot)<br>18 s (cold) |
| Efficiency (%)           | 50%                       | 92.3                      | 92.0                      |
|                          | 75%                       | 92.4                      | 92.3                      |
|                          | 100%                      | 91.9                      | 92.2                      |
| Power factor             | Start                     | 0.43                      | 0.43                      |
|                          | 50%                       | 0.76                      | 0.71                      |
|                          | 75%                       | 0.84                      | 0.81                      |
|                          | 100%                      | 0.86                      | 0.85                      |

|                      |                  |                      |                               |
|----------------------|------------------|----------------------|-------------------------------|
|                      | <u>Drive end</u> | <u>Non drive end</u> | Foundation loads              |
| Bearing type         | 6314-C3          | 6314-C3              | Maximum traction : 5353 N     |
| Lubrication interval | 14000 h          | 14000 h              | Maximum compression : 10224 N |
| Lubricant amount     | 27 g             | 27 g                 |                               |
| Lubricant type       | MOBIL POLYREX EM |                      |                               |

**FOR APPROVAL**

{ } Approved  
{ } Approved with comments  
{ } Not approved

This revision replaces and cancels the previous one, which must be eliminated.

- (1) When viewed from the drive end.  
 (2) Measured at 1m and with tolerance of +3dB(A).  
 (3) Approximate weight subject to changes after manufacturing process.  
 (4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

| Rev. | Summary of changes | Performed | Checked                                 | Date |
|------|--------------------|-----------|-----------------------------------------|------|
|      |                    |           |                                         |      |
|      |                    |           |                                         |      |
|      |                    |           |                                         |      |
| Date | 09/03/2021         |           | 064203/2021-A<br>Page 3/2<br>Revision 0 |      |

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