## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



## Customer

| Product line   | : 0022   | IE3 Three-   | rnase                       |                           | Prod   | uct code :       | 12862                 | 529   |  |
|--|--|--|-----------------------------|---------------------------|--|------------------|-----------------------|---|--|
| Frame<br>Insulation class<br>Duty cycle<br>Ambient temperature<br>Altitude<br>Protection degree  |  | : 112M<br>: F<br>: S1<br>: -20°C to +40°C<br>: 1000 m.a.s.l.<br>: IP55 |                             |                           | Mounting: B5TRotation1: BothStarting method: DirectApprox. weight3: 46.5 H |                  |                       | 1 - TEFC<br>(CW and CCW)<br>tt On Line<br>kg<br>30 kgm² |  |
|  |  | : N  | 4                           |                           |  | 1                | 4                     |   |  |
| Output [kW]  |  | 4  |                             | 4 4                       |  |                  | 4 4                   | 4   |  |
| Poles<br>Frequency [Hz]  |  | 50   |                             | 50                        |  |                  | 50                    | 60  |  |
| Rated voltage [V]  |  | 380/660  |                             | 400/690                   |  |                  | 415                   | 460   |  |
| Rated current [A]  |  | 8.68/5.00  |                             | 8.46/4.90                 |  |                  | 8.37                  | 7.48  |  |
| L. R. Amperes [A]  |  | 56.4/32.5  |                             | 59.2/34.3                 |  |                  | 62.8                  | 59.8  |  |
| LRC [A]  |  | 6.5  |                             | 7.0                       |  |                  | 7.5                   | 8.0   |  |
| No load current [A]  |  | 4.50/2.59  |                             | 5.00/2.90                 |  |                  | 5.50                  | 4.70  |  |
| Rated speed [RPM]  |  | 1445   |                             | 1450                      |  |                  | 1455                  | 1755  |  |
| Slip [%]   |  | 3.67   |                             |                           | 3.33   |                  | 3.00                  | 2.50  |  |
| Rated torque [Nm]  |  | 26.4   |                             |                           | 26.4   |                  | 26.3                  | 21.7  |  |
| ocked rotor torqu  |  | 220  |                             |                           | 260  |                  | 280                   | 290   |  |
| Breakdown torque   | [%]  | 270  |                             |                           | 310  |                  | 340                   | 370   |  |
| Service factor   |  | 1.00   |                             |                           | 1.00<br>80 K   |                  | 1.00<br>80 K          | 1.00<br>80 K  |  |
| Cemperature rise   |  | 80 K   |                             | 270 (0                    | old) 15s (hot)   |                  | 80 K<br>ld) 15s (hot) | 27s (cold) 15s (hot)                                    |  |
| Locked rotor time<br>Noise level <sup>2</sup>  |  | 27s (cold) 15s (hot)<br>56.0 dB(A)                                     |                             |                           | 6.0 dB(A)  |                  | .0 dB(A)              | 56.0 dB(A)  |  |
|  | 25%  | 00.0   |                             |                           | 0.0 00(//)   |                  |                       | 00.0 00(/ ()  |  |
|  | 50%  | 8  | 37.5                        |                           | 87.5   |                  | 87.5                  | 87.5  |  |
| Efficiency (%)   | 75%  |  | 38.2                        |                           | 88.2   |                  | 88.2                  | 89.5  |  |
|  | 100%   |  | 88.6                        |                           | 88.6   |                  | 88.6                  | 89.5  |  |
| Power Factor   | 25%  |  |                             |                           |  |                  |                       |   |  |
|  | 50%  | 0.62   |                             |                           | 0.58   |                  | 0.54                  | 0.53  |  |
|  | 75%  | 0.73   |                             | 0.69                      |  |                  | 0.67                  | 0.66  |  |
| 100%   |  | 0.79   |                             |                           | 0.77   |                  | 0.75                  | 0.75  |  |
| Losses at normat   | ive operating  | points (sp   | eed;torque), i              | n percer                  | ntage of rated of  | output pow       | er                    |   |  |
|  |  | 21 (0,9;1,0) 12.6  |                             |                           | 12.6   |                  | 12.6                  | 11.5  |  |
|  |  | 0,5;1,0) 11.9  |                             |                           | 11.9   |                  | 11.9                  | 10.8  |  |
|  |  | 0,25;1,0) 12   |                             |                           |  |                  | 12.0                  | 11.0  |  |
| Losses (%)   |  | ,9;0,5)  | 5.8                         |                           | 5.8  |                  | 5.8                   | 5.3   |  |
|  |  | ,5;0,5)  | 4.6                         |                           | 4.6  |                  | 4.6                   | 4.2   |  |
|  |  | 5;0,25)<br>25;0,25)  | 3.1<br>2.5                  |                           | 3.1<br>2.5   |                  | 3.1<br>2.5            | 2.9   |  |
|  | P7 (0,2  |  |                             | ive end                   |  |                  | 2.0                   | 2.3   |  |
| Bearing type<br>Sealing<br>Lubrication interval<br>Lubricant amount  |  | Drive end Non drive end<br>6207 ZZ 6206 ZZ<br>Oil Seal Lip Seal        |                             | 06 ZZ<br>9 Seal<br>-<br>- | Foundation loads<br>Max. traction : 1468 N<br>Max. compression : 1924 N    |                  |                       |   |  |
| Lubricant type<br>This revision repla<br>must be eliminate<br>(1) Looking the m<br>(2) Measured at 1<br>(3) Approximate v<br>manufacturing pro<br>(4) At 100% of ful | d.<br>otor from the<br>m and with to<br>veight subjectocess. | cel the pre<br>shaft end.  | vious one, wł<br>f +3dB(A). |                           |  |                  |                       | sts with sinusoidal<br>s stipulated in IEC              |  |
| Rev.   | Changes Summary  |  |                             |                           | F  | Performed Checke |                       | d Date  |  |
| Performed by   |  |  |                             |                           |  |                  |                       | 1   |  |
|  |  |  |                             |                           |  |                  |                       |   |  |
| Checked by   |  |  |                             |                           |  |                  | Page                  | Revision  |  |

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:

Customer

Notes

| Rev.         |            | Changes Summary | Performed | Checked | Date     |
|--------------|------------|-----------------|-----------|---------|----------|
|              |            |                 |           |         |          |
| Performed by |            |                 |           |         | 1        |
| Checked by   |            |                 |           | Page    | Revision |
| Date         | 29/08/2023 |                 |           | 2/2     |          |

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

