

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |  |
|--|--|
| Customer :   |  |
| Product line : W22 IE3 Three-Phase   | Product code : 12862355  |
| Frame : 90S<br>Insulation class : F<br>Duty cycle : S1<br>Ambient temperature : -20°C to +40°C<br>Altitude : 1000 m.a.s.l.<br>Protection degree : IP55<br>Design : N   | Cooling method : IC411 - TEFC<br>Mounting : B3T<br>Rotation <sup>1</sup> : Both (CW and CCW)<br>Starting method : Direct On Line<br>Approx. weight <sup>2</sup> : 19.7 kg<br>Moment of inertia (J) : 0.0020 kgm <sup>2</sup> |
| Output [kW]  | 1.5  |
| Poles  | 2  |
| Frequency [Hz]   | 50   |
| Rated voltage [V]  | 220/380  |
| Rated current [A]  | 5.56/3.22  |
| L. R. Amperes [A]  | 36.2/20.9  |
| LRC [A]  | 6.5  |
| No load current [A]  | 2.42/1.40  |
| Rated speed [RPM]  | 2870   |
| Slip [%]   | 4.33   |
| Rated torque [Nm]  | 4.99   |
| Locked rotor torque [%]  | 220  |
| Breakdown torque [%]   | 270  |
| Service factor   | 1.00   |
| Temperature rise   | 80 K   |
| Locked rotor time  | 18s (cold) 10s (hot)   |
| Noise level <sup>2</sup>   | 62.0 dB(A)   |
| Efficiency (%)   | 25%  |
|  | 50%  |
|  | 75%  |
|  | 100%   |
| Power Factor   | 25%  |
|  | 50%  |
|  | 75%  |
|  | 100%   |
| Losses at normative operating points (speed;torque), in percentage of rated output power   |  |
| Losses (%)   | P1 (0,9;1,0)   |
|  | P2 (0,5;1,0)   |
|  | P3 (0,25;1,0)  |
|  | P4 (0,9;0,5)   |
|  | P5 (0,5;0,5)   |
|  | P6 (0,5;0,25)  |
|  | P7 (0,25;0,25)   |
| Bearing type : Drive end 6205 ZZ Non drive end 6204 ZZ<br>Sealing : V'Ring V'Ring<br>Lubrication interval : - -<br>Lubricant amount : - -<br>Lubricant type : Mobil Polyrex EM   | Foundation loads<br>Max. traction : 382 N<br>Max. compression : 575 N  |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(4) At 100% of full load. |  |
| Rev.   | Changes Summary  |
| Performed by   | Performed  |
| Checked by   | Checked  |
| Date   | 29/08/2023   |
| Page   | Revision   |
| 1 / 2  |  |

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

Notes

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