DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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| Product line | : W22 IE3 Three-Phase | | | Product code : 12881494 | | | | |
|--|------------------------------|---|-------------------------|-----------------------------|---|---------------------|---|--|
| Frame Output Poles | | : 160M : 11 kW (: 4 | : 11 kW (15 HP) | | Locked rotor time Temperature rise Duty cycle | | : 25s (cold) 14s (hot) : 80 K : S1 | |
| Frequency | . 4 : 50 H | | | Ambient temperature | | | : -20°C to +40°C | |
| Rated voltage | | : 220/380 | V | Altitude | | | : 1000 m.a.s.l. | |
| Rated current | | | : 37.1/21.5 A | | Protection degree | | : IP55 | |
| L. R. Amperes | | : 260/151 A | | Cooling | | : IC411 - | TEFC | |
| LRC | | : 7.0 | | Mounting | g | : B5T | | |
| No load current | | : 15.5/9.00 A | | Rotation | | | CW and CCW) | |
| Rated speed | | : 1475 rpm | | Noise le | | : 61.0 dE | | |
| Slip | | : 1.67 % | | | Starting method | | : Direct On Line | |
| Rated torque | | : 71.3 Nm | | Approx. weight ³ | | : 146 kg | | |
| | | : 240 % | | | | | | |
| Breakdown torque | ; | | : 270 % | | | | | |
| Insulation class | | : F : 1.00 | | | | | | |
| Service factor | (1) | | : 1.00 : 0.1191 kgm² | | | | | |
| Moment of inertia | (J) | : 0.1191 : N | kym⁼ | | | | | |
| Design | | . IN | | | | | | |
| Output | 50% | 75% | 100% | Foundatio | n loads | | | |
| Efficiency (%) | 91.4 90.7 | 91.4 91 | .6 91.4 91.4 | Max. tracti | | : 2631 N | | |
| | 90.6 90.5 | 91.4 92 | | | | . 2001 11 | | |
| Power Factor | 0.69 0.65 | 0.80 0.7 | | Max. com | pression | : 4063 N | | |
| | 0.61 0.62 | 0.74 0.7 | | | | | | |
| l osses at normativ | | | eed;torque), in perce | entage of rat | ed output powe | ٥r | | |
| | P1 (0,9 | | 9.2 | 9. | | 9.2 | 8.0 | |
| | P1 (0,8 P2 (0,8 | | <u> </u> | 9. | | 9.2 8.0 | 7.0 | |
| | P2 (0,: P3 (0,2 | | 7.7 | 0. 7. | | 7.7 | 6.7 | |
| Losses (%) | | | 4.4 | 4. | | 4.4 | 3.9 | |
| L03303 (70) | P4 (0,9;0,5) P5 (0,5;0,5) | | 3.2 | 4. | | 3.2 | 2.8 | |
| | P5 (0,: P6 (0,5 | | 2.2 | 3. | | 2.2 | 2.8 | |
| | P6 (0,5 P7 (0,2 | | 1.6 | 2. | | 1.6 | 1.9 | |
| | 17 (0,2) | ,,, <u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Drive end | 1. | Non drive ei | | 1.7 | |
| Bearing type | | | 6309 ZZ C3 | | 6209 ZZ (| | | |
| Sealing | | | Oil Seal | Lip Seal | | | | |
| Lubrication interva | al · | | - | | - | | | |
| Lubricant amount | | | - | | - | | | |
| Lubricant type | : | | Мс | bil Polyrex E | EM | | | |
| | | | | , | | | | |
| This revision replac | | cel the pre | vious one, which | | | es based on tests | | |
| must be eliminated (1) Looking the mo (2) Measured at 1n | l. tor from the | shaft end. lerance of | ⁻ +3dB(A). | | oply, subject to | the tolerances st | ipulated in IEC | |
| Rev. | | Chang | es Summary | | Performed | Checked | Date | |
| | | | | | | | | |
| Performed by | | | | I_ | | | 1 | |
| Checked by | | | | | | Page | Revision | |
| | 00/00/0000 | | | | | | | |
| Date | 29/08/2023 | | | | | 1/3 | | |
| This door | mont is ovelue | nuo proport | v of WEG S/A Poprint | ting is not allo | wod without writt | on outborization of | $M \square \square \square \square \square \square \square$ | |

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Customer

(3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. Rev. **Changes Summary** Performed Checked Date Performed by Checked by Page Revision 29/08/2023 2/3 Date

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Three Phase Induction Motor - Squirrel Cage

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Customer

| ID | Application | Sensing Temperat | | | |
|--------------|-------------|---------------------------|--------------------|---------|----------|
| 1 | Winding | Type Thermistor - 2 wires | Quantity 1 x Phase | | 55 °C |
| 1 | Winding | | TXTHase | | 00 0 |
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