# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

| | | | |
|---|---|---|---|
| Product line | : W22 IEEE 841 NEMA Premium Efficiency Three-Phase | Product code : | 12378978 |
| | | Catalog # : | 00718ST3QIE213TC-W22 |

| | | | |
|---|---|---|---|
| Frame | : 213/5TC | Locked rotor time | : 36s (cold) 20s (hot) |
| Output | : 7.5 HP (5.5 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 9.18 A | Protection degree | : IP56 |
| L. R. Amperes | : 65.2 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.1x(Code H) | Mounting | : F-1 |
| No load current | : 4.20 A | Rotation¹ | : Both (CW and CCW) |
| Rated speed | : 1765 rpm | Noise level² | : 58.0 dB(A) |
| Slip | : 1.94 % | Starting method | : Direct On Line |
| Rated torque | : 22.3 ft.lb | Approx. weight³ | : 182 lb |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 310 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 1.34 sq.ft.lb | | |
| Design | : B | | |

| Output | 25% | | 50% | | 75% | | 100% | |
|---|---|---|---|---|---|---|---|---|
| Efficiency (%) | 88.6 | 89.2 | 89.5 | 89.5 | 91.0 | 89.5 | 91.7 | 89.6 |
| | 89.2 | 89.3 | 89.5 | 89.5 | 90.2 | 90.2 | 90.2 | 90.2 |
| Power Factor | 0.40 | 0.47 | 0.66 | 0.72 | 0.76 | 0.81 | 0.82 | 0.85 |
| | 0.43 | 0.40 | 0.69 | 0.66 | 0.78 | 0.76 | 0.83 | 0.82 |

Foundation loads

| | |
|---|---|
| Max. traction | : 349 lb |
| Max. compression | : 531 lb |

Losses at normative operating points (speed;torque), in percentage of rated output power

| | | | | | |
|---|---|---|---|---|---|
| Losses (%) | P1 (0,9;1,0) | 8.8 | 8.8 | 8.8 | 8.8 |
| | P2 (0,5;1,0) | 7.0 | 7.0 | 7.0 | 7.0 |
| | P3 (0,25;1,0) | 6.5 | 6.5 | 6.5 | 6.5 |
| | P4 (0,9;0,5) | 4.9 | 4.9 | 4.9 | 4.9 |
| | P5 (0,5;0,5) | 3.3 | 3.3 | 3.3 | 3.3 |
| | P6 (0,5;0,25) | 2.4 | 2.4 | 2.4 | 2.4 |
| | P7 (0,25;0,25) | 1.6 | 1.6 | 1.6 | 1.6 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6308 C3 | 6207 C3 |
| Sealing | : | Inpro/Seal | Inpro/Seal |
| Lubrication interval | : | 20000 h | 20000 h |
| Lubricant amount | : | 11 g | 7 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 |
|---|---|---|---|---|
| | | | | |

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|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 26/03/2024 | | 1 / 1 | |

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