

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 13163453

Catalog # : 01536ET3E254TC-SG

| | | | |
|---------------------|------------------|-----------------------------|---------------------|
| Frame | : 254/6TC | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : F-1 |
| Duty cycle | : Cont.(S1) | Rotation ¹ | : Both (CW and CCW) |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight ^a | : 0.0 lb |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.8718 sq.ft.lb |
| Design | : B | | |

| | | | |
|--------------------------|----------------------|--------------------|--------------------|
| Output [HP] | 15 | 12.5 | 12.5 |
| Poles | 2 | 2 | 2 |
| Frequency [Hz] | 60 | 50 | 50 |
| Rated voltage [V] | 208-230/460 | 190/380 | 220/415 |
| Rated current [A] | 38.5-34.8/17.4 | 35.4/17.7 | 31.3/16.6 |
| L. R. Amperes [A] | 262-237/118 | 244/122 | 254/134 |
| LRC [A] | 6.8x(Code G) | 6.9x(Code H) | 8.1x(Code J) |
| No load current [A] | 11.2-13.0/6.50 | 13.6/6.80 | 14.8/7.86 |
| Rated speed [RPM] | 3525 | 2920 | 2935 |
| Slip [%] | 2.08 | 2.67 | 2.17 |
| Rated torque [ft.lb] | 22.0 | 22.2 | 22.1 |
| Locked rotor torque [%] | 200 | 190 | 229 |
| Breakdown torque [%] | 300 | 290 | 360 |
| Service factor | 1.15 | 1.00 | 1.00 |
| Temperature rise | 80 K | 105 K | 80 K |
| Locked rotor time | 25s (cold) 14s (hot) | 0s (cold) 0s (hot) | 0s (cold) 0s (hot) |
| Noise level ² | 75.0 dB(A) | 72.0 dB(A) | 72.0 dB(A) |
| Efficiency (%) | 25% | | |
| | 50% | 89.5 | 90.2 |
| | 75% | 91.0 | 90.6 |
| | 100% | 91.0 | 89.8 |
| Power Factor | 25% | | |
| | 50% | 0.73 | 0.74 |
| | 75% | 0.83 | 0.84 |
| | 100% | 0.87 | 0.88 |

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).
- (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 |
|--------------|-----------------|-----------|---------|------|
| | | | | |
| Performed by | | | | |
| Checked by | | | | |
| Date | 22/01/2018 | | | |

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