

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12674986

Catalog # : 01018ET3E215T-SG

| | | | |
|---------------------|------------------|-----------------------------|---------------------|
| Frame | : 213/5T | 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 ² | : 128 lb |
| Protection degree | : IP55 | Moment of inertia (J) | : 1.07 sq.ft.lb |
| Design | : B | | |

| | | | |
|--------------------------|----------------------|--------------------|--------------------|
| Output [HP] | 10 | 7.5 | 7.5 |
| Poles | 4 | 4 | 4 |
| Frequency [Hz] | 60 | 50 | 50 |
| Rated voltage [V] | 208-230/460 | 190/380 | 220/415 |
| Rated current [A] | 27.0-24.4/12.2 | 22.4/11.2 | 20.6/10.9 |
| L. R. Amperes [A] | 189-171/85.4 | 170/85.1 | 179/94.8 |
| LRC [A] | 7.0x(Code H) | 7.6x(Code J) | 8.7x(Code L) |
| No load current [A] | 9.56-11.1/5.54 | 10.9/5.46 | 12.1/6.43 |
| Rated speed [RPM] | 1760 | 1465 | 1470 |
| Slip [%] | 2.22 | 2.33 | 2.00 |
| Rated torque [ft.lb] | 29.4 | 26.5 | 26.4 |
| Locked rotor torque [%] | 250 | 250 | 320 |
| Breakdown torque [%] | 300 | 320 | 390 |
| Service factor | 1.15 | 1.15 | 1.15 |
| Temperature rise | 80 K | 80 K | 80 K |
| Locked rotor time | 27s (cold) 15s (hot) | 0s (cold) 0s (hot) | 0s (cold) 0s (hot) |
| Noise level ² | 60.0 dB(A) | 57.0 dB(A) | 57.0 dB(A) |
| Efficiency (%) | 25% | | |
| | 50% | 91.0 | 88.7 |
| | 75% | 91.0 | 90.2 |
| | 100% | 91.7 | 90.3 |
| Power Factor | 25% | | |
| | 50% | 0.67 | 0.56 |
| | 75% | 0.78 | 0.69 |
| | 100% | 0.84 | 0.78 |

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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