DATA SHEET

Checked by

Date

30/08/2023

Three Phase Induction Motor - Squirrel Cage



Customer :

| Customer | : | | | | | | | | | |
|---|---|----------------------|-----------------|---|--------------------|------------|-------------------------------------|--|-------|-----------------|
| Product line | Phase | Product code : | | | | 12862 | 12862352 | | | |
| Frame Insulation class Duty cycle Ambient tempera Altitude Protection degree Design | : 71 : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N | | | Cooling method Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J) | | | : B3T : Both : Dire : 10.6 | : IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 10.6 kg : 0.0004 kgm² | | |
| Output [kW] | | (| 0.37 | | 0.37 | | 0 | .37 | | 0.37 |
| Poles | | 2 | | | 2 | | | 2 | | 2 |
| Frequency [Hz] | Frequency [Hz] | | 50 | | 50 | | 50 | | 60 | |
| Rated voltage [V] | | | 220/380 | | 230/400 | | 240/415 | | | 460 |
| Rated current [A] | | 1.51/0.876 | | 1.48/0.851 | | 1.45/0.840 | | | 0.775 | |
| | L. R. Amperes [A] | | 8.32/4.82 | | 8.58/4.94 | | 9.01/5.21 | | | 5.43 |
| LRC [A] | | 5.5 | | 5.8 | | 6.2 | | | 7.0 | |
| No load current [A | | 0.725/0.420 | | 0.783/0.450 | |) | 0.813/0.470 | | | 0.430 |
| Rated speed [RPI | M] | 2810 | | 2835 | | | 2850 | | | 3460 |
| Slip [%] | | | 6.33 | | 5.50 | | 5.00 | | 3.89 | |
| Rated torque [Nm | | 1.26 | | | 1.25 | | | 1.24 | | 1.02 |
| Locked rotor torqu | | 210 | | | 229 | | | 250 | | 280 |
| | Breakdown torque [%] | | 220 | | 250 | | | 280 | | 320 |
| Service factor | | 1.00 | | | 1.00 | | 1.00 | | | 1.00 |
| | Temperature rise | | 80 K | | 80 K | | | 80 K | | 80 K |
| Locked rotor time | | 21s (cold) 12s (hot) | | | cold) 12s (| | | 21s (cold) 12s (hot) | | cold) 12s (hot) |
| Noise level ² | | 56.0 | dB(A) | 5 | 6.0 dB(A) | | 56.0 | dB(A) | (| 60.0 dB(A) |
| | 25% | | | | | | 70.4 | | | 70.0 |
| Efficiency (%) | 50% | 73.6 | | 73.0 | | | 72.4 | | | 70.0 |
| | 75% | 74.3 | | 73.8 | | | 73.8 | | | 73.4 |
| | 100% | 73.8 | | | 73.8 | | 73.8 | | | 74.0 |
| | 25% | 0.00 | | | 0.00 | | 0.62 | | | 0.00 |
| Power Factor | 50% | 0.69 | | 0.66 | | | 0.63 | | | 0.63 |
| | 75% | 0.81 | | | 0.78 0.85 | | 0.75 0.83 | | | 0.74 |
| | 100% | | 0.87 | | | | | | | 0.81 |
| Losses at normat | | | eed;torque), i | | ntage of ra | ated ou | tput power | | | |
| | P1 (0 | P1 (0,9;1,0) | | | 34.5 | | | 34.5 | | 34.1 |
| | | P2 (0,5;1,0) | | | 31.0 | | | 31.0 | | 30.7 |
| | | P3 (0,25;1,0) | | | 30.3 | | | 30.3 | | |
| Losses (%) | | ,9;0,5) | 17.5 | | 17.5 | | | 17.5 | | |
| | | ,5;0,5) | 12.1 | | 12.1 | | | 12.1 | | |
| | | 5;0,25) | 8.5 | | 8.5 | | | 8.5 | | 8.4 |
| | P7 (0,2 | 25;0,25) | 6.0 | | | 6.0 | | 6.0 | | 5.9 |
| | | <u>Drive</u> | | rive end | Foundat | ion loa | ds | | | |
| Bearing type | | : 6202 | 6202 ZZ 620 | | 2 ZZ Max. traction | | : 64 N | | | |
| Sealing | | : V'R | ing V' | 'Ring | Max. coi | mpress | sion | : 168 I | N | |
| Lubrication inter | | : - | | - | | | | | | |
| Lubricant amour | nt | : - | | - | | | | | | |
| Lubricant type | | : N | lobil Polyrex E | =M | | | | | | |
| This revision repl must be eliminate (1) Looking the m (2) Measured at a (3) Approximate wanufacturing pro (4) At 100% of fu | ed. notor from the 1m and with t weight subject ocess. | shaft end | f +3dB(A). | hich | | upply, s | | s based on to he tolerance | | |
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