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|---|-----------|--|----------------------|
| Producer: Siemens Standard Motors Ltd. | | | |
| Address : No. 110, West Street Qingshan Town Yizheng City Jiangsu Province 211417, P.R.China | | | |
| TYPE TEST CERTIFICATE OF INDUCTION MOTOR | | | |
| TEST No...Probe Nr. : | | | |
| TYPE... : 1LG0164-2AA | | SERIAL-No: 20749 | |
| spec.: 3 | | | |
| 15 kW | 380 V | D | 28.6 A |
| 2930 /min | 50 Hz | | |
| S1 | IP55 | Isol. F | 40 °C |
| | | IM B3 | 115 kg |
| WINDING RESISTANCE - cold | | $R_{f20} = 0.536625 \Omega$ | |
| TERMINALS: U-W | | V-W | |
| $R_{isol} > 0.5 G\Omega$ | | | |
| $\vartheta = 3 \text{ }^{\circ}\text{C}$ | | $R(\Omega): 0.33390$ | |
| | | 0.33390 | |
| | | 0.33390 | |
| $M_N = 48.9 \text{ Nm}$ | | LOAD TEST | |
| | | 1. 2. 3. 4. 5. 6. | |
| $P_{in} (W)$ | | 17770 16813 | |
| $P (W)$ | | 15830 15000 15000 15000 | |
| $U (V)$ | | 380 | |
| $I (A)$ | | 30.6 29.0 29.0 28.6 | |
| $f (Hz)$ | | 50 50 50 50 | |
| SPEED (1/min) | | 2919 2923 2923 2930 | |
| Torque (Nm) | | 51.8 | |
| $\eta (\%)$ | | 89.08 89.22 89.1 88.7 | |
| $\cos \varphi (-)$ | | 0.883 0.882 0.89 | |
| $M_{ST} / M_N \diamond M_A / M_N (-)$ | | 2.1 2.1 2.2 | |
| $I_{ST} / I_N \diamond I_A / I_N (-)$ | | 7.9 7.9 7.5 | |
| $M_{MAX} / M_N \diamond M_K / M_N (-)$ | | 2.90 2.90 2.3 | |
| SLIP ... (%) | | 2.70 2.56 2.33 | |
| WINDING - $\Delta \vartheta (K)$ | | 82.1 75.8 EN 60034-2 80 | |
| | | (30 s) (30 s) Tref = 95°C | |
| $\vartheta_a (^\circ\text{C})$ | | 4.5 4.5 | |
| FRAME - $\Delta \vartheta (K)$ | | 49.5 45.7 | |
| TIME ... (min) | | 210 | |
| BEARING_D - $\Delta \vartheta (K)$ | | 41.5 38.3 | |
| RESISTANCE - warm | | 0.45120 0.44230 ... U-V | |
| | | 0.45120 0.44230 ... U-W $R_{isol} = 0.2 G\Omega$ | |
| | | 0.45120 0.44230 ... V-W | |
| NO-LOAD TEST | | LOCKED ROTOR TEST | |
| VOLTAGE | CURRENT | POWER INPUT | POWER FACTOR |
| $U_o (V)$ | $I_o (A)$ | $P_o (W)$ | $\cos \varphi_o (-)$ |
| 380 | 8.59365 | 813 | 0.144 |
| VOLTAGE | CURRENT | TORQUE | POWER INPUT |
| $U_A (V)$ | $I_A (A)$ | $M_A (N.m.)$ | $P_A (W)$ |
| 380 | 225.0 | 103.0 | 68844 |
| | | | $\cos \varphi_A (-)$ |
| | | | 0.465 |
| COIL TEST | | HIGH-SPEED TEST | |
| 130% U_N - 3 min. | | 120% n_{MAX} - 2 min. | |
| HIGH POTENCIAL TEST | | | |
| 2500 V - 1 min. | | | |
| TESTS CONFORM to the ... EN 60034 | | | |
| NOTE | | order: | |
| A&D SD MF QM | | DATE... 3/3/2009 | |
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