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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... : 1LG0113-6AA | | SERIAL-No: 13030 | | spec.: 3 | | | | |
| 2.2 kW | 380 V | Y | 5.6 A | 935 /min | 50 Hz | | | |
| S1 | IP55 | Isol. F | 40 °C | IM B3 | 40 kg | | | |
| WINDING RESISTANCE - cold | | | | $R_{f20} = 3.873418 \Omega$ | | | | |
| TERMINALS: | | U-V | U-W | V-W | $R_{isol} > 0.5 G\Omega$ | | | |
| $\vartheta = 2 \text{ }^{\circ}\text{C}$ | $R (\Omega) :$ | 2.40000 | 2.40000 | 2.40000 | | | | |
| $M_N = 22.5 \text{ Nm}$ | LOAD TEST | | | | | | | |
| | 1. | 2. | 3. | 4. | 5. | | | |
| $P_{in} \text{ (W)}$ | 2847 | 2649 | | | | | | |
| $P \text{ (W)}$ | 2354 | 2200 | 2200 | | 2200 | | | |
| $U \text{ (V)}$ | 380 | | | | 380 | | | |
| $I \text{ (A)}$ | 5.7 | 5.3 | 5.3 | | 5.6 | | | |
| $f \text{ (Hz)}$ | 50 | 50 | 50 | | 50 | | | |
| SPEED (1/min) | 936 | 940 | 940 | | 935 | | | |
| Torque (Nm) | 24.0 | | | | | | | |
| $\eta \text{ (%)}$ | 82.69 | 83.04 | 82.6 | | 77.7 | | | |
| $\cos \varphi \text{ (-)}$ | 0.766 | 0.762 | | | 0.76 | | | |
| $M_{ST} / M_N \diamond M_A / M_N \text{ (-)}$ | 2.2 | 2.2 | | | 2.0 | | | |
| $I_{ST} / I_N \diamond I_A / I_N \text{ (-)}$ | 5.0 | 5.0 | | | 6.5 | | | |
| $M_{MAX} / M_N \diamond M_K / M_N \text{ (-)}$ | 2.45 | 2.45 | | | 2.1 | | | |
| SLIP ... (%) | 6.40 | 5.98 | | | 6.50 | | | |
| WINDING - $\Delta \vartheta \text{ (K)}$ | 60.7 (30 s) | 54.8 (30 s) | EN 60034-2 Tref = 95°C | | 80 | | | |
| $\vartheta_a \text{ (}^{\circ}\text{C)}$ | 6.5 | 6.5 | | | | | | |
| FRAME - $\Delta \vartheta \text{ (K)}$ | 43.5 | 39.3 | | | | | | |
| TIME ... (min) | 180 | | | | | | | |
| BEARING_D - $\Delta \vartheta \text{ (K)}$ | 38.5 | 34.8 | | | | | | |
| RESISTANCE - warm (Ω) | 3.06000 3.06000 3.06000 | 3.00093 3.00093 3.00093 | $R_{isol} = 0.2 G\Omega$ | | | | | |
| NO-LOAD TEST | | | LOCKED ROTOR TEST | | | | | |
| VOLTAGE | CURRENT | POWER INPUT | POWER FACTOR | VOLTAGE | CURRENT | TORQUE | POWER INPUT | POWER FACTOR |
| $U_o \text{ (V)}$ | $I_o \text{ (A)}$ | $P_o \text{ (W)}$ | $\cos \varphi_o \text{ (-)}$ | $U_A \text{ (V)}$ | $I_A \text{ (A)}$ | $M_A \text{ (N.m.)}$ | $P_A \text{ (W)}$ | $\cos \varphi_A \text{ (-)}$ |
| 380 | 3.35415 | 218 | 0.099 | 380 | 28.2 | 49.4 | 11149 | 0.601 |
| COIL TEST | | HIGH-SPEED TEST | | HIGH POTENCIAL TEST | | | | |
| 130% U_N - 3 min. | | 120% n_{MAX} - 2 min. | | 2500 V - 1 min. | | | | |
| TESTS CONFORM to the ... EN 60034 | | | | | | | | |
| NOTE | | | | | | | order: | |
| A&D SD MF QM | | DATE... 16/1/2009 | | PAGE... 1 / 6 | | SIGNATURE LAZ | | |