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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... : 1LG0310-4AB | | SERIAL-No: 18328 | | spec.: 3 | | | | |
| 110 kW | 380 V | D | 201 A | 1480 /min | 50 Hz | | | |
| S1 | IP55 | Isol. F | 40 °C | IM B3 | 955 kg | | | |
| WINDING RESISTANCE - cold | | | | | $R_{f20} = 0.028576 \Omega$ | | | |
| TERMINALS: | | U-V | U-W | V-W | $R_{isol} > 0.5 G\Omega$ | | | |
| $\vartheta = 22 \text{ °C}$ | $R (\Omega) :$ | 0.01920 | 0.01920 | 0.01920 | | | | |
| $M_N = 709.8 \text{ Nm}$ | LOAD TEST | | | | | | 1. MEASURING | |
| | 1. | 2. | 3. | 4. | 5. | 6. | | |
| $P_{in} (W)$ | 119500 | 116821 | | | | | 2. CORRECTED for Pn | |
| $P (W)$ | 112527 | 110000 | 110000 | | | 110000 | | |
| $U (V)$ | 380 | | | | | 380 | | |
| $I (A)$ | 206.1 | 201.5 | 201.5 | | | 201 | | |
| $f (Hz)$ | 50 | 50 | 50 | | | 50 | | |
| SPEED (1/min) | 1483 | 1483 | 1483 | | | 1480 | 3. CORRECTED FOR T_{REF} according EN 60034-2 | |
| Torque (Nm) | 724.6 | | | | | | | |
| $\eta (\%)$ | 94.16 | 94.16 | 94.2 | | | 93.3 | | |
| $\cos \varphi (-)$ | 0.881 | 0.881 | | | | 0.88 | | |
| $M_{ST} / M_N \diamond M_A / M_N (-)$ | 2.1 | 2.1 | | | | 2.1 | | |
| $I_{ST} / I_N \diamond I_A / I_N (-)$ | 6.6 | 6.6 | | | | 6.9 | 4. CORRECTED FOR T_{REF} according CEMEP | |
| $M_{MAX} / M_N \diamond M_K / M_N (-)$ | 2.82 | 2.82 | | | | 2.2 | | |
| SLIP ... (%) | 1.13 | 1.11 | | | | 1.33 | | |
| WINDING - $\Delta \vartheta (K)$ | 69.9 (90 s) | 67.5 (90 s) | EN 60034-2 $T_{ref} = 95^\circ C$ | | | 80 | | |
| $\vartheta_a (^\circ C)$ | 29.5 | 29.5 | | | | | | |
| FRAME - $\Delta \vartheta (K)$ | 24.5 | 23.7 | | | | | 5. MEASURING at 75% Pn | |
| TIME ... (min) | 240 | | | | | | | |
| BEARING_D - $\Delta \vartheta (K)$ | 23.5 | 22.7 | | | | | | |
| RESISTANCE - warm | 0.02498 | 0.02481 | ... U-V | | | | 6. GUARANTED | |
| (Ω) | 0.02498 | 0.02481 | ... U-W $R_{isol} = 0.2 G\Omega$ | | | | | |
| | 0.02498 | 0.02481 | ... V-W | | | | | |
| NO-LOAD TEST | | | | LOCKED ROTOR TEST | | | | |
| VOLTAGE | CURRENT | POWER INPUT | POWER FACTOR | VOLTAGE | CURRENT | TORQUE | POWER INPUT | POWER FACTOR |
| $U_o (V)$ | $I_o (A)$ | $P_o (W)$ | $\cos \varphi_o (-)$ | $U_A (V)$ | $I_A (A)$ | $M_A (N.m.)$ | $P_A (W)$ | $\cos \varphi_A (-)$ |
| 380 | 65.8586 | 3628 | 0.084 | 380 | 1321.0 | 1491.3 | 320311 | 0.368 |
| 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... 8/5/2009 | | PAGE... 1 / 6 | | SIGNATURE LAZ | | |