

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... : 1LG0113-2AA		SERIAL-No: 17899		spec.: 3				
4 kW	380 V	D	8.1 A	2880 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	38 kg			
WINDING RESISTANCE - cold				$R_{f20} = 1.370303 \ \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 \ G\Omega$			
$\vartheta = 12.5 \ ^\circ C$	$R (\ \Omega) :$	2.66000	2.66000	2.66000				
$M_N = 13.3 \ Nm$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \ (W)$	4880	4797					2. CORRECTED for Pn	
$P \ (W)$	4063	4000	4000			4000		
$U \ (V)$	380					380		
$I \ (A)$	8.3	8.2	8.2			8.1		
$f \ (Hz)$	50	50	50			50		
SPEED (1/min)	2879	2881	2881			2880	3. CORRECTED FOR T_{REF} according EN 60034-2	
Torque (Nm)	13.5							
$\eta \ (\%)$	83.26	83.38	83.4			83.1		
$\cos \varphi \ (-)$	0.893	0.892				0.88		
$M_{ST} / M_N \ \diamond \ M_A / M_N \ (-)$	2.4	2.4				2.2		
$I_{ST} / I_N \ \diamond \ I_A / I_N \ (-)$	8.1	8.1				7.5	4. CORRECTED FOR T_{REF} according CEMEP	
$M_{MAX} / M_N \ \diamond \ M_K / M_N \ (-)$	2.94	2.94				2.3		
SLIP ... (%)	4.03	3.97				4.00		
WINDING - $\Delta \vartheta \ (K)$	81.6 (30 s)	79.7 (30 s)	EN 60034-2 $T_{ref} = 95^\circ C$			80		
$\vartheta_a \ (^\circ C)$	16.5	16.5						
FRAME - $\Delta \vartheta \ (K)$	32.5	31.7					5. MEASURING at 75% Pn	
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta \ (K)$	32.5	31.7					6. GUARANTED	
RESISTANCE - warm	3.58000	3.55961	... U-V	$R_{isol} = 0.2 \ G\Omega$				
(Ω)	3.58000	3.55961	... U-W					
	3.58000	3.55961	... 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	3.11695	298	0.145	380	65.3	31.9	29902	0.695
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... 20/3/2009		PAGE... 1 / 6		SIGNATURE LAZ		