

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... : 1LG0096-2AA		SERIAL-No: 2187		spec.: 3				
2.2 kW	380 V	Y	4.85 A	2840 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	28 kg			
WINDING RESISTANCE - cold					$R_{f20} = 1.239756 \ \Omega$			
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 \ G\Omega$			
$\vartheta = 11 \ ^\circ\text{C}$	$R (\ \Omega) :$	2.39200	2.39200	2.39200				
$M_N = 7.4 \ \text{Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \ (W)$	2828	2623					2. CORRECTED for Pn	
$P \ (W)$	2365	2200	2200			2200		
$U \ (V)$	380					380		
$I \ (A)$	5.0	4.6	4.6			4.85		
$f \ (Hz)$	50	50	50			50		
SPEED $(1/min)$	2826	2838	2838			2840	3. CORRECTED FOR T_{REF} according EN 60034-2	
Torque (Nm)	8.0							
$\eta \ (\%)$	83.61	83.86	83.8			79.7		
$\cos \varphi \ (-)$	0.863	0.860				0.85		
$M_{ST} / M_N \ \blacklozenge \ M_A / M_N \ (-)$	2.4	2.4				2.2		
$I_{ST} / I_N \ \blacklozenge \ I_A / I_N \ (-)$	7.1	7.1				7.0	4. CORRECTED FOR T_{REF} according CEMEP	
$M_{MAX} / M_N \ \blacklozenge \ M_K / M_N \ (-)$	2.84	2.84				2.3		
SLIP ... $(\%)$	5.80	5.40				5.33		
WINDING - $\Delta \vartheta \ (K)$	83.9 (30 s)	75.3 (30 s)	EN 60034-2 $T_{ref} = 95^\circ\text{C}$			80		
$\vartheta_a \ (^\circ\text{C})$	9	9						
FRAME - $\Delta \vartheta \ (K)$	53	47.6					5. MEASURING at 75% Pn	
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta \ (K)$	50	44.9						
RESISTANCE - warm $(\ \Omega)$	3.18800 3.18800 3.18800	3.10484 3.10484 3.10484	$R_{isol} = 0.2 \ G\Omega$				6. GUARANTED	
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	2.30136	206	0.136	380	34.4	17.5	16838	0.744
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... 16/3/2009		PAGE... 1 / 6		SIGNATURE LAZ		