

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... : 1LG0163-2AA		SERIAL-No: 18652		spec.: 3				
11 kW	380 V	D	21.2 A	2930 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	105 kg			
WINDING RESISTANCE - cold					$R_{f20} = 0.768613 \ \Omega$			
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 \ G\Omega$			
$\vartheta = 8.5 \ ^\circ\text{C}$	$R (\ \Omega) :$	0.48930	0.48930	0.48930				
$M_N = 35.9 \ \text{Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} \ (W)$	13098	12526					2. CORRECTED for P _n	
$P \ (W)$	11494	11000	11000			11000		
$U \ (V)$	380					380		
$I \ (A)$	22.8	21.8	21.8			21.2		
$f \ (Hz)$	50	50	50			50		
SPEED (1/min)	2923	2926	2926			2930	3. CORRECTED FOR T _{REF} according EN 60034-2	
Torque (Nm)	37.6							
$\eta \ (\%)$	87.75	87.82	87.6			87.6		
$\cos \varphi \ (-)$	0.873	0.872				0.89		
$M_{ST} / M_N \ \blacklozenge \ M_A / M_N \ (-)$	1.9	1.9				2.2		
$I_{ST} / I_N \ \blacklozenge \ I_A / I_N \ (-)$	7.3	7.3				7.5	4. CORRECTED FOR T _{REF} according CEMEP	
$M_{MAX} / M_N \ \blacklozenge \ M_K / M_N \ (-)$	2.45	2.45				2.3		
SLIP ... (%)	2.57	2.46				2.33		
WINDING - $\Delta \vartheta \ (K)$	76.2 (30 s)	71.4 (30 s)	EN 60034-2 T _{ref} = 95°C			80		
$\vartheta_a \ (^\circ\text{C})$	4.5	4.5						
FRAME - $\Delta \vartheta \ (K)$	36.5	34.2					5. MEASURING at 75% P _n	
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta \ (K)$	44.5	41.7					6. GUARANTED	
RESISTANCE - warm	0.63440	0.62467	... U-V					
(Ω)	0.63440	0.62467	... U-W $R_{isol} = 0.2 \ G\Omega$					
	0.63440	0.62467	... 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	6.92878	773	0.169	380	154.9	67.5	48337	0.474
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... 24/3/2009		PAGE... 1 / 6		SIGNATURE LAZ		