

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... : 1LG0163-4AA		SERIAL-No: 29343		spec.: 3				
11 kW	380 V	D	22.6 A	1460 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	110 kg			
WINDING RESISTANCE - cold				$R_{f20} = 0.878657 \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 G\Omega$			
$\vartheta = 10 \text{ }^{\circ}\text{C}$	$R (\Omega) :$	0.56280	0.56280	0.56280				
$M_N = 72.0 \text{ Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} (W)$	12530	12390					2. CORRECTED for P _n	
$P (W)$	11119	11000	11000			11000		
$U (V)$	380					380		
$I (A)$	23.0	22.8	22.8			22.6		
$f (Hz)$	50	50	50			50		
SPEED (1/min)	1463	1463	1463			1460	3. CORRECTED FOR T _{REF} according EN 60034-2	
Torque (Nm)	72.6							
$\eta (\%)$	88.74	88.78	88.7			87.6		
$\cos \varphi (-)$	0.827	0.827				0.84		
$M_{ST} / M_N \diamond M_A / M_N (-)$	2.4	2.4				2.2		
$I_{ST} / I_N \diamond I_A / I_N (-)$	8.3	8.3				7.0	4. CORRECTED FOR T _{REF} according CEMEP	
$M_{MAX} / M_N \diamond M_K / M_N (-)$	2.79	2.79				2.3		
SLIP ... (%)	2.47	2.44				2.67		
WINDING - $\Delta \vartheta (K)$	77.9 (30 s)	76.6 (30 s)	EN 60034-2 T _{ref} = 95°C			80		
$\vartheta_a (^\circ\text{C})$	14	14						
FRAME - $\Delta \vartheta (K)$	26	25.6					5. MEASURING at 75% P _n	
TIME ... (min)	210							
BEARING_D - $\Delta \vartheta (K)$	34	33.5						
RESISTANCE - warm	0.75090	0.74805	... U-V				6. GUARANTEED	
(Ω)	0.75090	0.74805	... U-W $R_{isol} = 0.2 G\Omega$					
	0.75090	0.74805	... 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	9.6491	563	0.089	380	187.0	170.4	67160	0.546
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... 12/11/2008		PAGE... 1 / 6		SIGNATURE LAZ		