

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... : 1LG0253-4AA		SERIAL-No: 20211		spec.: 3				
55 kW	380 V	D	103 A	1480 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	400 kg			
WINDING RESISTANCE - cold				$R_{f20} =$	0.094491 Ω			
TERMINALS:		U-V	U-W	V-W	$R_{isol} >$ 0.5 $G\Omega$			
$\vartheta =$	18 °C	R (Ω) :	0.06250	0.06250	0.06250			
$M_N =$	354.9 Nm	LOAD TEST						
		1.	2.	3.	4.	5.	6.	1. MEASURING
P_{in} (W)		61150	59053					2. CORRECTED for Pn
P (W)		56917	55000	55000			55000	
U (V)		380					380	
I (A)		105.6	102.0	102.0			103	
f (Hz)		50	50	50			50	
SPEED (1/min)		1475.3	1476	1476			1480	3. CORRECTED FOR T_{REF} according EN 60034-2
Torque (Nm)		368.4						
η (%)		93.08	93.14	93.1			92.1	
$\cos \varphi$ (-)		0.880	0.879				0.87	
$M_{ST} / M_N \diamond M_A / M_N$ (-)		2.1	2.1				2.2	
$I_{ST} / I_N \diamond I_A / I_N$ (-)		7.2	7.2				7.2	4. CORRECTED FOR T_{REF} according CEMEP
$M_{MAX} / M_N \diamond M_K / M_N$ (-)		2.42	2.42				2.3	
SLIP ... (%)		1.65	1.59				1.33	
WINDING - $\Delta \vartheta$ (K)		77.5 (90 s)	73.7 (90 s)	EN 60034-2 $T_{ref} = 95^\circ C$			80	
ϑ_a (°C)		19	19					
FRAME - $\Delta \vartheta$ (K)		35	33.3					5. MEASURING at 75% Pn
TIME ... (min)		300						
BEARING_D - $\Delta \vartheta$ (K)		46	43.7					
RESISTANCE - warm		0.08190	0.08094	... U-V	$R_{isol} =$ 0.2 $G\Omega$			6. GUARANTED
(Ω)		0.08190	0.08094	... U-W				
		0.08190	0.08094	... 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	29.2311	1695	0.088	380	739.2	758.0	203458	0.418
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... 3/11/2008		PAGE... 1 / 6		SIGNATURE LAZ		