

Producer: <b>Siemens Standard Motors Ltd.</b>								
Address : No. 110, West Street Qingshan Town Yizheng City Jiangsu Province 211417, P.R.China								
<b>TYPE TEST CERTIFICATE OF INDUCTION MOTOR</b>								
TEST No...Probe Nr. :								
TYPE... : <b>1LG0253-2AB</b>		SERIAL-No: <b>21300</b>		spec.: 3				
55 kW	380 V	D	100 A	2965 /min	50 Hz			
S1	IP55	Isol. F	40 °C	IM B3	390 kg			
WINDING RESISTANCE - cold				$R_{f20} = 0.084556 \Omega$				
TERMINALS:		U-V	U-W	V-W	$R_{isol} > 0.5 G\Omega$			
$\vartheta = 10 \text{ °C}$	$R (\Omega) :$	0.05416	0.05416	0.05416				
$M_N = 177.2 \text{ Nm}$	LOAD TEST						1. MEASURING	
	1.	2.	3.	4.	5.	6.		
$P_{in} (W)$	59050	59275					2. CORRECTED for Pn	
$P (W)$	54791	55000	55000			55000		
$U (V)$	380					380		
$I (A)$	101.5	101.9	101.9			100		
$f (Hz)$	50	50	50			50		
SPEED (1/min)	2964	2964	2964			2965	3. CORRECTED FOR $T_{REF}$ according EN 60034-2	
Torque (Nm)	176.5							
$\eta (\%)$	92.79	92.79	92.7			92.1		
$\cos \varphi (-)$	0.884	0.884				0.9		
$M_{ST} / M_N \diamond M_A / M_N (-)$	2.1	2.1				2.0		
$I_{ST} / I_N \diamond I_A / I_N (-)$	8.1	8.1				7.5	4. CORRECTED FOR $T_{REF}$ according CEMEP	
$M_{MAX} / M_N \diamond M_K / M_N (-)$	2.71	2.71				2.3		
SLIP ... (%)	1.20	1.20				1.17		
WINDING - $\Delta \vartheta (K)$	68.3 (90 s)	68.9 (90 s)	EN 60034-2 $T_{ref} = 95 \text{ °C}$			80		
$\vartheta_a (\text{°C})$	13	13						
FRAME - $\Delta \vartheta (K)$	54	54.4					5. MEASURING at 75% Pn	
TIME ... (min)	240							
BEARING_D - $\Delta \vartheta (K)$	56	56.4						
RESISTANCE - warm ( $\Omega$ )	0.06993	0.07005	... U-V	$R_{isol} = 0.2 G\Omega$			6. GUARANTED	
	0.06993	0.07005	... U-W					
	0.06993	0.07005	... 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	28.8051	2283	0.120	380	814.3	371.0	198260	0.370
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... 30/3/2009		PAGE... 1 / 6		SIGNATURE LAZ		